

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P227315

Luminaire Tested: **ISW-AF-450-LED-E1-SLR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227315
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35948)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISW-AF-450-LED-E1-SLR
Description: IMPACT ELITE LED WEDGE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2767.2 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U1 - G1

Input Watts (W): 25.31
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

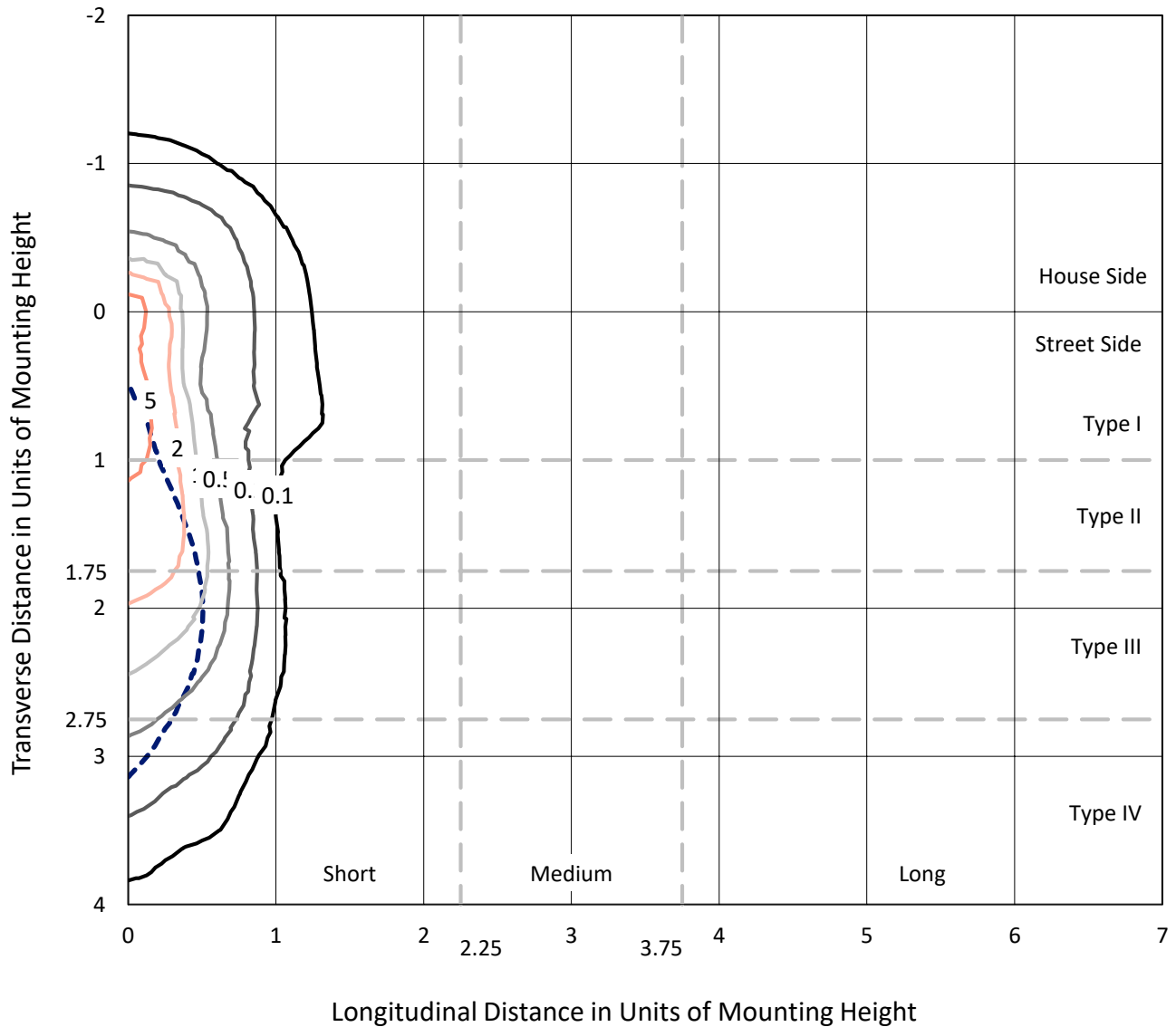


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Iso-Footcandle Lines of Horizontal Illumination

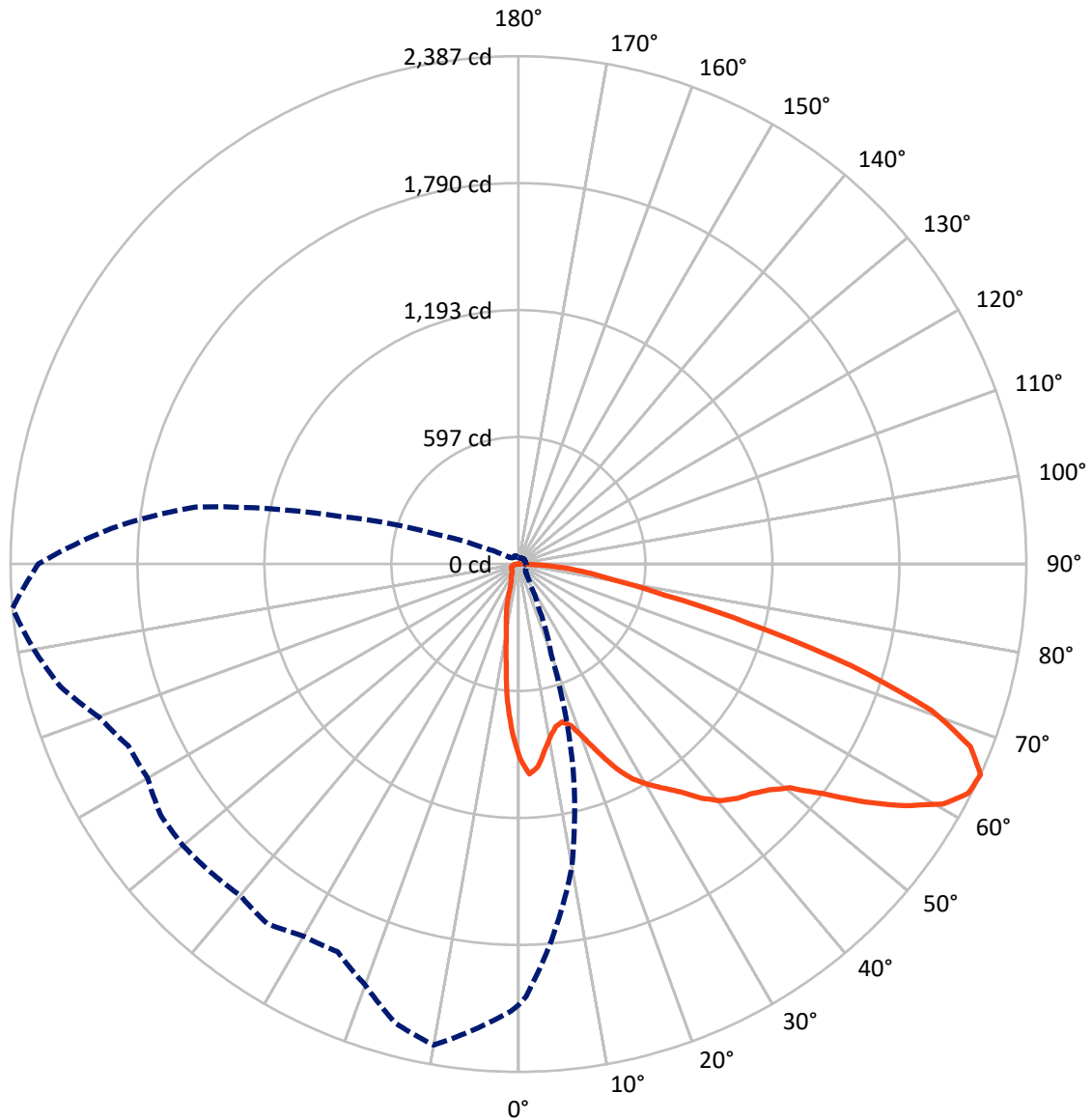
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 275-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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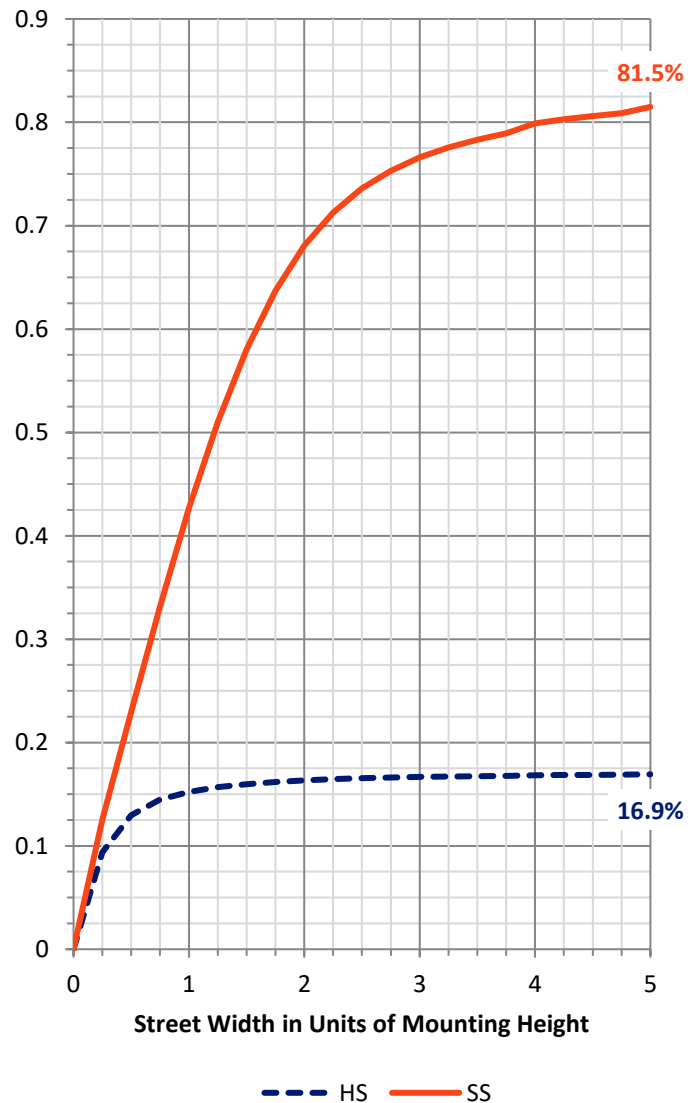
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	474.7	0.0	474.7
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	2292.4	0.1	2292.5
	% Fixture	82.8	0.0	82.8
Total	Lumens	2767.1	0.1	2767.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.7	2.4
10°-20°	130.3	4.7
20°-30°	185.8	6.7
30°-40°	269.6	9.7
40°-50°	385.6	13.9
50°-60°	592.1	21.4
60°-70°	685.4	24.8
70°-80°	349.6	12.6
80°-90°	100.9	3.6
90°-100°	0.1	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2767.1	100.0
0°-180°	2767.2	100.0



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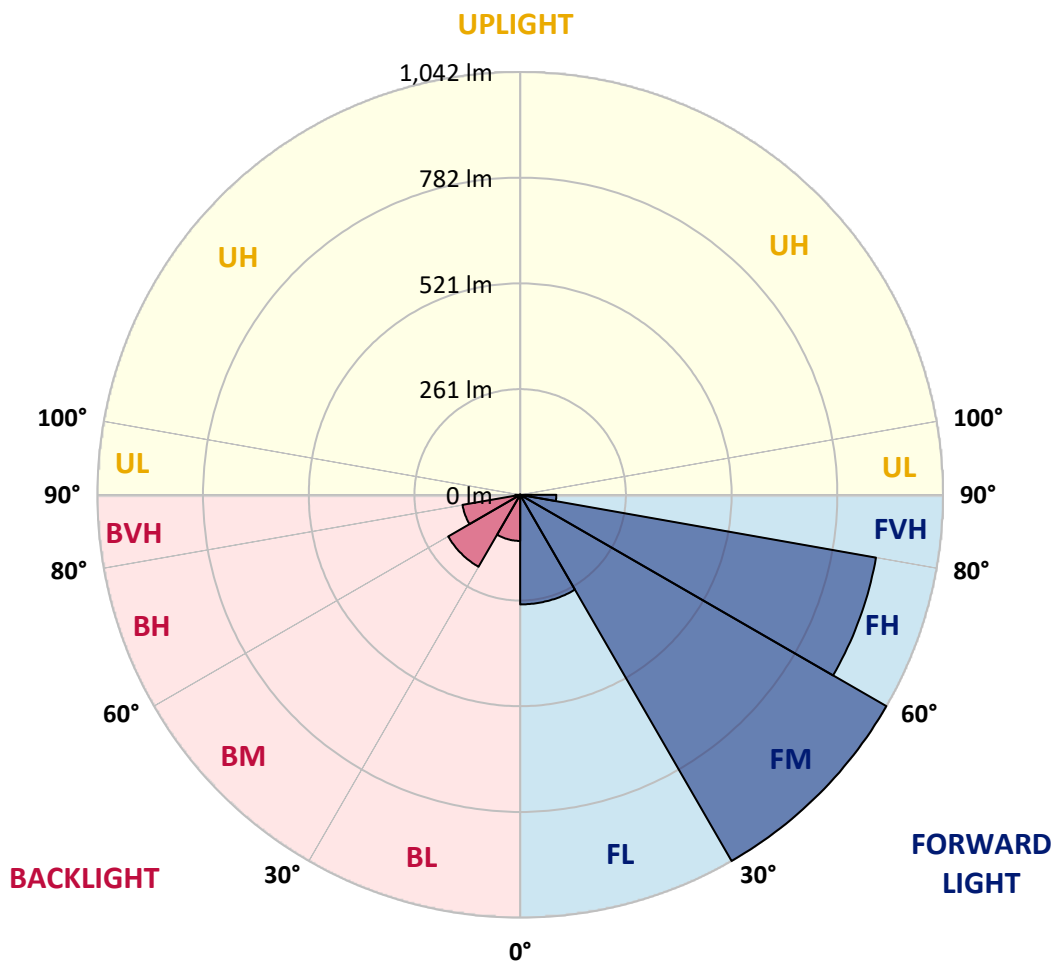
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	270.3	9.8			
FM	(30°-60°)	1042.4	37.7			
FH	(60°-80°)	890.6	32.2			G1/1800
FVH	(80°-90°)	89.2	3.2			G1/100
BL	(0°-30°)	113.6	4.1	B1/500		
BM	(30°-60°)	205.0	7.4	B0/220		
BH	(60°-80°)	144.4	5.2	B1/500		G1/500
BVH	(80°-90°)	11.7	0.4			G1/100
UL	(90°-100°)	0.1	0.0		U1/10	
UH	(100°-180°)	0.0	0.0		U1/10	

BUG Rating: B1-U1-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	914.2	914.2	914.2	914.2	914.2	914.2	914.2	914.2	914.2	914.2	914.2
2.5°	946.3	940.7	933.7	921.7	910.9	895.6	891.8	872.8	860.6	863.4	841.5
5°	888.5	885.3	868.1	841.1	823.4	788.4	768.4	758.2	729.3	725.6	717.7
7.5°	807.5	797.8	769.8	736.3	706.0	680.4	648.2	623.6	601.7	588.2	564.5
10°	738.2	727.9	697.7	656.6	620.3	584.4	558.4	526.2	495.0	470.9	451.7
12.5°	704.6	693.5	658.1	610.5	570.0	525.3	488.6	456.8	439.7	427.5	411.6
15°	717.7	701.3	659.0	602.1	551.9	504.3	465.2	431.3	410.7	392.1	373.5
17.5°	770.3	750.2	701.8	633.3	563.5	502.1	446.1	407.4	374.9	347.0	321.8
20°	860.6	845.7	775.4	679.4	588.6	503.4	429.8	379.1	339.5	304.1	270.6
22.5°	966.4	944.0	875.0	741.8	620.8	511.8	419.6	355.4	308.3	260.8	224.4
25°	1077.2	1060.0	968.6	825.7	670.1	529.1	411.6	334.4	271.5	218.9	178.8
27.5°	1166.6	1151.2	1060.9	906.2	715.3	543.9	400.1	314.4	242.1	178.8	134.6
30°	1239.7	1226.6	1132.1	972.4	770.3	549.0	383.7	291.0	209.6	144.3	111.3
32.5°	1321.7	1307.2	1200.6	1018.4	794.9	544.4	365.1	269.1	183.5	127.6	95.4
35°	1411.6	1394.8	1276.9	1068.4	815.5	528.1	349.2	253.4	170.9	116.0	84.8
37.5°	1491.7	1480.9	1345.9	1117.7	838.7	501.1	333.9	236.1	162.5	107.6	76.4
40°	1554.1	1551.3	1422.3	1158.7	856.9	481.5	321.3	222.6	151.8	104.3	73.6
42.5°	1604.4	1603.4	1484.7	1195.4	861.5	464.3	311.6	210.5	142.1	96.4	75.0
45°	1652.8	1652.4	1545.2	1246.7	864.8	465.2	304.1	203.1	133.7	91.2	70.8
47.5°	1698.9	1705.9	1608.6	1318.0	899.3	481.1	301.4	196.1	127.2	85.7	67.1
50°	1776.1	1769.2	1708.6	1414.3	954.7	511.8	296.7	190.0	121.1	80.6	63.3
52.5°	1922.9	1915.0	1861.0	1543.3	1015.3	543.5	290.6	181.7	114.1	75.0	59.1
55°	2102.2	2112.9	2037.9	1700.2	1097.6	570.0	284.1	170.4	104.8	68.4	56.4
57.5°	2207.4	2198.6	2112.9	1790.7	1148.5	583.5	279.9	157.4	90.3	62.9	53.6
59°	2232.1	2217.2	2100.3	1806.0	1162.0	577.0	277.5	144.8	82.9	60.0	52.2
60°	2229.8	2211.6	2080.3	1796.2	1165.7	569.1	273.8	137.4	78.7	58.7	51.7
62.5°	2181.9	2153.4	1966.6	1677.9	1113.5	529.5	258.5	119.7	73.1	56.8	48.9
65°	2072.8	2032.8	1775.7	1447.0	993.8	450.8	223.5	113.1	74.5	55.9	47.1
67.5°	1884.7	1852.6	1530.3	1197.4	792.2	364.2	193.2	110.4	76.4	56.8	44.2
70°	1533.1	1505.6	1194.1	896.5	593.3	289.7	175.5	108.9	75.0	54.5	41.9
72.5°	1081.4	1033.9	793.6	627.8	376.2	232.8	152.3	102.9	73.1	52.6	38.2
75°	658.1	666.9	504.3	457.4	237.5	159.8	119.7	86.6	64.8	47.1	34.5
77.5°	434.0	433.5	372.1	322.7	120.6	99.2	84.8	66.6	50.7	38.7	29.8
80°	294.3	297.6	270.1	220.2	67.1	59.6	55.4	48.4	37.2	29.4	24.7
82.5°	181.2	181.7	209.1	164.9	44.7	37.7	35.4	32.6	26.5	22.8	19.1
85°	62.9	64.2	73.1	116.4	30.3	24.7	24.7	22.8	20.0	15.3	12.6
87.5°	27.0	26.5	31.7	31.7	14.9	12.6	11.7	11.7	11.2	8.4	7.0
90°	1.8	1.4	1.4	1.8	2.4	3.3	2.8	3.3	3.3	2.8	1.8
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	914.2	914.2	914.2	914.2	914.2	914.2	914.2	914.2	914.2	914.2	914.2
2.5°	835.0	829.9	815.5	811.7	816.4	807.1	804.8	802.4	785.2	794.0	783.8
5°	698.1	696.7	667.4	673.4	667.4	657.1	652.9	662.7	645.5	649.2	651.5
7.5°	536.5	530.9	511.4	498.3	490.4	483.4	474.5	460.1	471.3	468.9	486.6
10°	435.5	423.3	411.2	393.0	382.8	373.1	362.7	357.2	344.1	342.8	336.8
12.5°	399.2	381.9	366.5	350.7	339.9	320.4	304.1	293.9	285.5	272.4	262.7
15°	350.7	336.2	316.2	300.8	284.1	266.4	250.5	237.5	231.5	219.3	213.8
17.5°	301.8	279.9	255.6	240.3	217.0	198.9	185.8	177.5	168.6	161.1	154.6
20°	243.1	214.7	188.6	169.1	150.9	133.2	127.2	116.9	113.1	110.4	112.7
22.5°	184.8	155.6	128.6	113.6	103.8	99.2	94.1	92.2	90.8	90.3	91.2
25°	135.5	110.9	97.8	92.2	88.5	85.7	83.8	82.4	81.5	81.0	81.5
27.5°	104.8	91.8	85.2	81.5	78.7	76.8	75.9	74.5	74.1	73.6	74.1
30°	90.8	83.8	79.2	75.5	72.2	68.9	67.5	67.1	67.5	68.0	67.5
32.5°	79.2	74.1	68.9	65.7	63.3	61.5	61.5	60.6	60.6	61.9	62.4
35°	71.7	66.6	62.9	58.7	55.9	54.0	52.6	51.7	52.2	52.2	53.6
37.5°	65.7	61.9	58.7	54.9	52.2	50.3	49.4	48.4	48.0	47.5	47.5
40°	61.5	59.1	56.4	52.6	49.8	48.0	47.1	46.1	45.6	45.2	45.2
42.5°	61.5	56.8	54.9	51.7	48.4	46.5	45.2	44.2	43.3	43.3	43.3
45°	67.5	58.2	54.9	51.2	48.0	45.6	44.2	42.9	41.9	41.9	41.4
47.5°	65.7	65.2	55.9	51.2	48.4	45.6	43.8	42.4	41.4	41.0	40.5
50°	62.4	68.0	62.4	52.6	48.4	45.2	43.3	41.9	40.5	40.1	40.1
52.5°	60.6	63.3	64.8	54.5	48.9	45.2	42.9	41.4	40.5	39.6	39.1
55°	55.9	59.6	61.9	53.6	48.9	44.2	41.9	40.5	39.1	38.7	38.2
57.5°	51.2	54.0	59.6	53.6	47.5	43.8	41.0	39.1	38.2	37.7	37.2
59°	49.8	49.8	53.1	54.9	46.5	43.3	40.5	38.7	37.7	37.2	36.3
60°	48.4	48.4	50.3	56.4	46.1	42.9	40.1	38.2	36.8	36.8	36.3
62.5°	46.5	45.2	46.1	52.6	44.7	41.9	39.1	37.2	35.9	35.9	35.4
65°	44.2	42.4	42.4	43.8	41.9	40.1	38.2	36.3	34.5	34.5	34.9
67.5°	41.9	40.1	39.6	39.6	38.7	38.2	36.3	34.5	33.6	33.6	33.6
70°	38.7	37.2	36.8	35.9	35.9	35.4	34.0	32.6	31.7	32.1	31.7
72.5°	34.9	34.0	33.0	33.0	32.6	32.1	30.7	29.8	29.4	29.8	29.8
75°	31.2	29.8	29.8	28.8	28.8	28.4	27.0	26.5	26.1	26.5	27.0
77.5°	26.5	25.6	25.2	25.2	25.2	25.2	23.3	22.8	22.8	23.7	23.7
80°	21.9	21.4	21.0	21.0	21.0	20.5	19.5	19.1	19.1	19.5	20.0
82.5°	16.8	15.9	15.9	16.3	16.8	16.8	15.3	14.4	14.4	15.3	16.3
85°	11.2	11.2	11.2	11.7	11.7	12.1	11.2	9.8	10.2	10.7	12.1
87.5°	6.0	6.5	6.0	5.6	6.5	6.0	6.0	5.6	6.0	6.5	7.0
90°	1.8	1.8	1.4	0.9	0.5	0.9	0.9	1.4	0.5	0.5	0.9
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: ISW-AF-450-LED-E1-SLR

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P227315

CATALOG NUMBER: ISW-AF-450-LED-E1-SLR

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	914.2	914.2	914.2	914.2	914.2	914.2	914.2	914.2	914.2	914.2	914.2
2.5°	793.1	785.2	781.0	797.3	795.9	781.9	781.9	791.7	792.2	783.8	793.6
5°	654.3	646.4	653.9	647.3	651.0	650.6	656.2	645.9	650.1	646.4	637.5
7.5°	485.3	501.1	509.5	498.8	512.3	519.2	509.5	519.2	503.9	491.3	503.4
10°	333.9	351.6	348.3	365.6	372.1	375.8	382.8	374.0	363.2	360.0	351.2
12.5°	258.9	255.2	253.8	260.8	264.9	258.9	264.0	258.5	252.9	243.1	242.6
15°	202.5	196.5	192.3	184.4	181.7	183.0	185.4	185.4	174.2	174.6	178.8
17.5°	153.6	152.3	149.0	142.5	138.3	139.7	139.2	136.9	135.5	136.5	141.6
20°	115.5	114.1	116.0	117.8	116.4	116.9	115.0	112.7	111.8	112.7	113.6
22.5°	91.2	93.2	95.4	98.3	98.7	101.1	100.6	101.1	99.2	98.3	96.0
25°	83.4	84.3	82.9	83.4	83.4	85.7	85.2	85.2	83.4	82.9	83.4
27.5°	73.6	73.1	73.1	74.1	74.1	75.5	76.4	75.5	73.6	73.1	73.6
30°	68.0	67.5	67.1	67.5	67.1	67.5	68.4	68.4	67.5	66.1	66.6
32.5°	62.4	62.4	61.9	62.4	61.9	61.9	62.9	61.5	61.5	61.0	61.0
35°	54.9	55.9	56.8	57.3	57.3	57.3	58.2	56.8	56.4	55.9	55.9
37.5°	47.5	48.4	51.2	52.6	53.1	54.0	54.5	53.6	52.6	51.7	50.7
40°	45.2	45.2	46.1	48.0	49.8	50.3	51.2	49.8	49.4	48.0	46.5
42.5°	43.3	43.8	43.8	44.2	44.7	45.6	47.1	45.6	44.7	43.8	42.4
45°	41.9	41.9	41.9	41.9	41.4	41.4	41.9	41.0	40.5	40.1	40.1
47.5°	41.0	40.5	40.1	39.6	39.1	38.7	38.7	37.7	37.7	37.7	37.7
50°	40.1	39.1	38.7	38.2	37.2	37.2	37.2	36.3	35.9	35.9	36.3
52.5°	38.7	38.2	37.7	37.2	36.8	36.3	36.3	35.4	34.9	34.9	34.9
55°	38.2	37.7	36.8	36.3	35.9	36.3	35.9	35.4	34.5	34.5	34.5
57.5°	36.8	37.2	36.8	35.9	35.9	35.9	35.9	34.9	34.5	33.6	34.0
59°	36.3	36.8	36.3	35.9	35.4	35.9	35.9	34.5	34.0	33.6	33.6
60°	35.9	36.3	35.9	35.4	35.4	35.9	35.4	34.9	34.0	32.6	33.0
62.5°	35.4	35.4	34.9	34.9	34.5	34.9	34.5	33.6	32.6	31.7	31.2
65°	34.5	34.5	34.0	34.0	33.6	33.6	33.6	32.6	31.7	30.7	30.7
67.5°	34.0	33.6	33.0	33.0	32.6	32.6	32.6	31.7	30.3	29.8	29.4
70°	32.1	31.7	31.7	31.2	30.7	31.2	31.7	30.3	28.8	27.9	27.5
72.5°	30.3	29.8	29.8	29.4	29.4	29.8	30.3	28.8	27.0	26.1	25.6
75°	27.5	27.0	27.0	27.0	27.0	27.9	27.9	26.5	25.2	23.7	22.8
77.5°	23.7	24.2	24.2	24.2	24.2	25.2	25.2	24.2	22.8	21.9	20.5
80°	20.5	20.5	21.0	21.0	21.4	21.4	21.0	20.5	20.0	19.1	17.2
82.5°	17.2	17.2	17.2	17.2	17.2	16.8	15.9	16.8	16.8	15.9	14.4
85°	13.5	13.5	13.5	14.0	14.0	12.6	11.2	11.2	12.6	12.1	11.2
87.5°	7.9	7.9	8.4	9.8	8.8	8.4	7.0	7.5	7.0	7.9	6.5
90°	1.8	1.4	1.4	0.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P227315
 CATALOG NUMBER: ISW-AF-450-LED-E1-SLR

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59°
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

'227315
 ISW-AF-450-LED-E1-SLR

REPORT NUMBER: P227315
 CATALOG NUMBER: ISW-AF-4!

TION (continued):

CANDELA DISTRIBUTION (con

165°	170°	175°	180°	185°	190°	195°	200°	205°	210°		215°	220°
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°	914.2	914.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°	855.5	859.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°	691.1	707.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°	522.5	544.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°	418.7	433.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°	367.4	388.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°	315.3	338.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°	258.5	286.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°	197.4	225.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°	138.8	162.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°	101.1	111.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°	89.9	94.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°	84.3	87.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°	75.9	78.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°	66.6	70.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°	61.9	64.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°	59.1	59.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°	56.8	56.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°	55.4	56.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°	56.4	62.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°	63.3	61.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°	64.8	57.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°	59.1	55.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°	53.1	48.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59°	47.5	44.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°	44.2	43.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°	40.5	41.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°	37.7	39.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°	36.3	37.7
										70°	34.0	34.9
										72.5°	31.7	32.1
										75°	28.4	28.8
										77.5°	25.2	25.2
										80°	20.5	20.5
										82.5°	15.9	15.3
										85°	10.2	9.8
										87.5°	4.7	3.7
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	0.0	0.0
										97.5°	0.0	0.0
										100°	0.0	0.0
										102.5°	0.0	0.0
										105°	0.0	0.0
										107.5°	0.0	0.0



REPORT NUMBER: P227315

CATALOG NUMBER: ISW-AF-450-LED-E1-

50-LED-E1-SLR

tinued):

CANDELA DISTRIBUTION (continued):

225°	230°	235°	240°	245°	250°	255°	260°	265°		215°	220°	225°
914.2	914.2	914.2	914.2	914.2	914.2	914.2	914.2	914.2	110°	0.0	0.0	0.0
880.7	893.6	904.0	902.0	923.9	937.0	938.9	952.4	965.4	112.5°	0.0	0.0	0.0
720.5	738.6	756.3	769.4	803.8	832.2	854.1	877.4	904.9	115°	0.0	0.0	0.0
574.2	589.6	618.5	639.4	675.8	708.8	740.9	777.7	808.9	117.5°	0.0	0.0	0.0
449.9	469.4	496.4	535.5	568.1	605.9	646.4	681.3	733.5	120°	0.0	0.0	0.0
404.3	416.3	438.7	457.4	497.9	537.9	583.5	631.5	679.4	122.5°	0.0	0.0	0.0
357.2	378.6	399.6	426.6	462.0	505.7	555.2	606.8	660.8	125°	0.0	0.0	0.0
311.6	339.9	362.7	392.1	431.7	487.1	551.4	615.6	679.0	127.5°	0.0	0.0	0.0
255.6	282.2	322.2	352.1	403.8	473.1	555.6	644.6	730.2	130°	0.0	0.0	0.0
201.2	229.6	275.3	319.5	376.2	465.7	572.3	692.0	806.6	132.5°	0.0	0.0	0.0
143.9	182.6	227.7	283.7	352.5	461.0	595.2	750.7	904.9	135°	0.0	0.0	0.0
107.6	134.6	189.6	250.5	326.0	452.7	619.4	805.2	971.9	137.5°	0.0	0.0	0.0
96.0	115.0	150.9	215.1	293.4	436.4	637.5	856.9	1033.0	140°	0.0	0.0	0.0
83.8	98.7	127.2	181.7	264.0	411.2	645.5	884.3	1075.3	142.5°	0.0	0.0	0.0
73.6	87.6	116.4	168.6	249.2	382.8	644.0	911.9	1128.4	145°	0.0	0.0	0.0
67.1	79.2	111.8	165.3	237.5	356.7	645.5	956.0	1207.1	147.5°	0.0	0.0	0.0
61.9	75.9	108.0	158.4	231.9	342.3	651.0	995.2	1274.6	150°	0.0	0.0	0.0
61.9	75.0	98.7	148.5	229.1	343.7	653.4	1025.5	1324.9	152.5°	0.0	0.0	0.0
65.2	70.3	91.8	143.0	231.0	353.9	650.6	1056.2	1373.8	155°	0.0	0.0	0.0
61.9	65.7	87.1	142.1	231.0	361.4	659.0	1094.5	1438.1	157.5°	0.0	0.0	0.0
58.7	61.0	85.7	140.7	226.4	368.4	693.5	1165.7	1521.9	160°	0.0	0.0	0.0
54.5	57.3	83.8	138.3	221.2	377.3	754.4	1285.3	1660.7	162.5°	0.0	0.0	0.0
49.4	54.9	81.0	134.6	218.0	393.0	816.8	1406.5	1826.1	165°	0.0	0.0	0.0
47.5	52.6	74.5	125.7	214.7	410.3	883.4	1522.4	1974.6	167.5°	0.0	0.0	0.0
46.1	50.7	68.9	119.2	211.9	418.7	903.5	1566.6	2031.9	170°	0.0	0.0	0.0
45.2	49.8	65.7	113.6	208.7	419.1	917.9	1583.4	2040.3	172.5°	0.0	0.0	0.0
43.8	48.0	59.1	102.0	198.4	418.7	919.3	1594.1	2016.0	175°	0.0	0.0	0.0
41.4	46.1	59.6	96.0	179.7	399.2	861.5	1542.4	1919.7	177.5°	0.0	0.0	0.0
39.6	44.7	62.9	97.3	160.2	348.8	753.5	1381.7	1713.3	180°	0.0	0.0	0.0
36.8	43.8	65.7	100.6	154.6	289.7	570.0	1128.4	1434.8				
34.0	43.3	68.0	102.9	148.5	238.4	395.0	800.0	1073.9				
30.7	39.6	61.9	87.6	123.0	173.3	254.3	523.4	740.5				
26.5	31.7	45.2	61.5	90.3	121.1	150.4	316.2	484.4				
21.9	23.7	32.1	39.6	60.0	71.7	83.4	178.4	338.6				
16.3	16.8	21.9	25.2	34.0	39.6	49.8	109.5	274.3				
9.3	10.7	14.9	16.8	20.5	25.2	32.6	69.9	215.1				
3.7	4.7	8.8	9.8	11.2	14.0	18.2	40.5	67.1				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				



REPORT NUMBER: P227315

CATALOG NUMBER: ISW-AF-450-LED-E1-SLR

-SLR

CANDELA DISTRIBUTION (continued):

230°	235°	240°	245°	250°	255°	260°	265°		270°	275°	280°	285°
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°	914.2	914.2	914.2	914.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°	978.5	988.3	996.6	1003.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°	934.2	957.1	984.5	1007.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°	855.5	884.3	929.0	956.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°	781.0	823.4	872.3	911.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°	730.2	782.9	829.4	873.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°	716.3	769.8	811.7	852.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°	744.2	797.8	833.6	858.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°	809.9	867.2	890.0	888.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°	899.8	959.8	959.8	941.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°	1018.4	1061.8	1038.1	1002.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°	1102.7	1143.4	1101.8	1043.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°	1172.6	1202.5	1149.8	1079.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°	1234.1	1256.0	1186.6	1117.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°	1307.7	1315.6	1224.8	1150.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°	1389.2	1395.7	1279.7	1187.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°	1485.1	1461.9	1320.3	1221.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°	1544.2	1506.1	1349.6	1239.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°	1590.9	1538.7	1363.1	1249.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°	1648.2	1586.7	1386.9	1268.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°	1723.6	1653.3	1447.0	1320.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°	1878.2	1791.1	1555.0	1412.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°	2056.1	1973.7	1727.8	1563.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°	2198.6	2143.2	1881.9	1700.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59°	2251.2	2227.5	1990.9	1816.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°	2270.7	2291.3	2048.7	1887.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°	2284.2	2373.2	2236.3	2098.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°	2256.3	2386.7	2312.2	2227.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°	2134.8	2290.8	2276.4	2202.3
								70°	1886.1	2059.8	2110.1	2004.9
								72.5°	1419.0	1634.7	1908.9	1744.0
								75°	924.4	1123.7	1630.0	1494.0
								77.5°	578.9	701.3	1162.9	1046.5
								80°	385.1	450.8	738.2	672.0
								82.5°	289.7	319.5	507.6	477.3
								85°	152.7	194.7	395.0	500.6
								87.5°	57.3	63.8	297.2	447.5
								90°	0.0	0.0	0.5	0.0
								92.5°	0.0	0.0	0.0	0.0
								95°	0.0	0.0	0.0	0.0
								97.5°	0.0	0.0	0.0	0.0
								100°	0.0	0.0	0.0	0.0
								102.5°	0.0	0.0	0.0	0.0
								105°	0.0	0.0	0.0	0.0
								107.5°	0.0	0.0	0.0	0.0



REPORT NUMBER: P227315
 CATALOG NUMBER: ISW-AF-450-LED-E1-SLR

CANDELA DISTRIBUTION (continued):

290°	295°	300°	305°	310°	315°	320°		270°	275°	280°	285°	290°
914.2	914.2	914.2	914.2	914.2	914.2	914.2	110°	0.0	0.0	0.0	0.0	0.0
1008.7	1017.1	1022.2	1018.4	1024.6	1025.9	1019.5	112.5°	0.0	0.0	0.0	0.0	0.0
1027.3	1050.7	1067.3	1079.0	1083.7	1087.9	1086.1	115°	0.0	0.0	0.0	0.0	0.0
992.9	1028.8	1060.0	1081.4	1088.8	1094.5	1089.2	117.5°	0.0	0.0	0.0	0.0	0.0
954.7	992.0	1021.3	1042.7	1042.3	1047.8	1038.1	120°	0.0	0.0	0.0	0.0	0.0
918.8	955.1	981.2	980.3	973.7	957.5	954.7	122.5°	0.0	0.0	0.0	0.0	0.0
890.5	909.5	916.1	914.6	896.0	886.7	885.3	125°	0.0	0.0	0.0	0.0	0.0
876.5	875.5	860.6	844.3	826.6	825.7	813.6	127.5°	0.0	0.0	0.0	0.0	0.0
878.8	848.5	821.0	793.1	774.0	769.8	771.2	130°	0.0	0.0	0.0	0.0	0.0
908.2	854.6	802.9	774.5	752.1	745.6	748.4	132.5°	0.0	0.0	0.0	0.0	0.0
944.9	873.2	808.9	765.6	747.5	739.5	740.9	135°	0.0	0.0	0.0	0.0	0.0
969.6	894.6	829.0	775.4	750.7	743.3	747.9	137.5°	0.0	0.0	0.0	0.0	0.0
1001.3	923.9	856.0	800.6	763.7	754.0	757.2	140°	0.0	0.0	0.0	0.0	0.0
1032.5	955.6	894.2	831.2	786.5	768.4	773.6	142.5°	0.0	0.0	0.0	0.0	0.0
1066.0	992.5	930.5	873.2	820.6	792.2	798.7	145°	0.0	0.0	0.0	0.0	0.0
1105.1	1035.2	982.1	929.6	875.5	851.8	854.6	147.5°	0.0	0.0	0.0	0.0	0.0
1142.8	1077.2	1043.2	1004.0	972.4	936.1	936.1	150°	0.0	0.0	0.0	0.0	0.0
1165.2	1131.7	1122.4	1111.1	1092.5	1066.4	1060.9	152.5°	0.0	0.0	0.0	0.0	0.0
1192.7	1196.4	1217.8	1240.1	1245.7	1220.2	1212.2	155°	0.0	0.0	0.0	0.0	0.0
1244.3	1283.5	1353.8	1414.8	1426.9	1447.9	1423.6	157.5°	0.0	0.0	0.0	0.0	0.0
1317.0	1389.2	1507.9	1607.6	1636.0	1637.8	1639.8	160°	0.0	0.0	0.0	0.0	0.0
1399.9	1503.3	1660.2	1779.0	1829.8	1843.3	1833.4	162.5°	0.0	0.0	0.0	0.0	0.0
1542.0	1635.6	1807.5	1935.4	2000.7	2032.3	2023.9	165°	0.0	0.0	0.0	0.0	0.0
1682.5	1799.1	1950.4	2076.6	2145.9	2181.3	2188.8	167.5°	0.0	0.0	0.0	0.0	0.0
1778.5	1887.5	2027.2	2143.6	2212.1	2254.5	2258.2	170°	0.0	0.0	0.0	0.0	0.0
1837.2	1936.9	2073.3	2175.8	2244.3	2280.1	2293.1	172.5°	0.0	0.0	0.0	0.0	0.0
2015.1	2033.3	2126.4	2193.9	2241.9	2258.2	2268.0	175°	0.0	0.0	0.0	0.0	0.0
2098.5	2022.6	2011.8	2053.8	2058.0	2047.2	2033.7	177.5°	0.0	0.0	0.0	0.0	0.0
1982.5	1805.1	1739.4	1733.8	1716.6	1709.6	1666.8	180°	0.0	0.0	0.0	0.0	0.0
1721.7	1466.0	1350.1	1287.2	1325.4	1324.0	1280.2						
1450.6	1190.3	1039.9	949.6	938.4	936.5	898.4						
1178.2	934.2	802.4	758.6	706.0	690.2	696.7						
849.5	666.9	638.9	672.5	676.7	664.6	656.2						
535.1	501.6	528.6	589.6	625.4	609.6	615.6						
446.1	395.0	396.8	461.0	485.3	489.0	476.4						
495.0	395.4	324.2	316.2	307.8	193.7	269.6						
446.1	306.0	180.2	148.5	91.2	52.6	54.5						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						



REPORT NUMBER: P227315

CATALOG NUMBER: ISW-AF-450-LED-E1-SLR

CANDELA DISTRIBUTION (continued):

295°	300°	305°	310°	315°	320°		325°	330°	335°	340°	345°	350°
0.0	0.0	0.0	0.0	0.0	0.0	0°	914.2	914.2	914.2	914.2	914.2	914.2
0.0	0.0	0.0	0.0	0.0	0.0	2.5°	1018.0	1009.1	999.4	986.3	988.7	972.8
0.0	0.0	0.0	0.0	0.0	0.0	5°	1071.5	1056.2	1035.2	1008.7	984.1	952.4
0.0	0.0	0.0	0.0	0.0	0.0	7.5°	1066.0	1041.4	1006.4	966.4	933.7	888.1
0.0	0.0	0.0	0.0	0.0	0.0	10°	1018.0	985.9	957.5	916.1	873.7	833.6
0.0	0.0	0.0	0.0	0.0	0.0	12.5°	950.9	932.8	908.2	876.9	836.0	794.9
0.0	0.0	0.0	0.0	0.0	0.0	15°	877.9	879.2	864.4	856.0	835.4	802.9
0.0	0.0	0.0	0.0	0.0	0.0	17.5°	817.7	831.8	839.6	852.7	855.1	839.2
0.0	0.0	0.0	0.0	0.0	0.0	20°	777.7	797.3	821.9	857.8	895.6	911.9
0.0	0.0	0.0	0.0	0.0	0.0	22.5°	755.3	779.6	819.2	884.3	953.3	994.7
0.0	0.0	0.0	0.0	0.0	0.0	25°	751.2	783.3	838.7	918.4	1007.8	1066.0
0.0	0.0	0.0	0.0	0.0	0.0	27.5°	758.2	800.0	865.7	956.6	1044.5	1128.8
0.0	0.0	0.0	0.0	0.0	0.0	30°	780.5	829.4	901.1	998.9	1090.3	1174.0
0.0	0.0	0.0	0.0	0.0	0.0	32.5°	802.0	862.4	941.6	1037.2	1128.8	1212.2
0.0	0.0	0.0	0.0	0.0	0.0	35°	836.4	897.4	978.5	1066.4	1155.4	1249.9
0.0	0.0	0.0	0.0	0.0	0.0	37.5°	889.0	942.5	1007.3	1089.2	1181.9	1279.7
0.0	0.0	0.0	0.0	0.0	0.0	40°	964.0	999.4	1041.4	1106.0	1195.0	1299.8
0.0	0.0	0.0	0.0	0.0	0.0	42.5°	1076.2	1083.7	1098.1	1131.7	1206.7	1323.1
0.0	0.0	0.0	0.0	0.0	0.0	45°	1221.1	1198.7	1186.1	1181.5	1232.8	1338.0
0.0	0.0	0.0	0.0	0.0	0.0	47.5°	1389.2	1345.4	1295.2	1270.9	1283.0	1361.8
0.0	0.0	0.0	0.0	0.0	0.0	50°	1608.1	1536.8	1438.1	1368.2	1362.2	1431.6
0.0	0.0	0.0	0.0	0.0	0.0	52.5°	1808.8	1715.7	1591.3	1508.9	1475.4	1561.9
0.0	0.0	0.0	0.0	0.0	0.0	55°	1998.3	1926.6	1786.0	1683.6	1671.9	1734.7
0.0	0.0	0.0	0.0	0.0	0.0	57.5°	2164.6	2102.7	1987.6	1854.0	1858.6	1919.7
0.0	0.0	0.0	0.0	0.0	0.0	59°	2250.8	2199.0	2092.4	1956.4	1966.6	2050.5
0.0	0.0	0.0	0.0	0.0	0.0	60°	2281.5	2238.2	2136.6	2022.1	2035.2	2122.2
0.0	0.0	0.0	0.0	0.0	0.0	62.5°	2279.1	2251.2	2177.7	2123.6	2190.2	2254.0
0.0	0.0	0.0	0.0	0.0	0.0	65°	2061.7	2019.3	2010.9	2105.4	2234.0	2295.5
0.0	0.0	0.0	0.0	0.0	0.0	67.5°	1639.8	1659.7	1739.4	1902.0	2117.6	2207.0
						70°	1217.8	1253.2	1359.4	1563.4	1859.5	2014.2
						72.5°	895.6	931.0	1028.8	1252.3	1529.8	1666.8
						75°	702.8	713.5	783.8	959.3	1205.8	1318.0
						77.5°	649.2	617.0	588.2	682.3	813.1	909.5
						80°	604.5	543.5	475.5	503.9	535.5	638.0
						82.5°	469.4	428.9	375.8	412.1	427.1	430.4
						85°	274.8	244.5	309.6	438.7	434.0	380.0
						87.5°	96.9	125.7	141.6	243.1	293.9	254.3
						90°	0.0	1.4	4.2	4.7	7.0	2.4
						92.5°	0.0	0.0	0.0	0.0	0.0	0.0
						95°	0.0	0.0	0.0	0.0	0.0	0.0
						97.5°	0.0	0.0	0.0	0.0	0.0	0.0
						100°	0.0	0.0	0.0	0.0	0.0	0.0
						102.5°	0.0	0.0	0.0	0.0	0.0	0.0
						105°	0.0	0.0	0.0	0.0	0.0	0.0
						107.5°	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P227315
 CATALOG NUMBER: ISW-AF-450-LED-E1-SLR

CANDELA DISTRIBUTION (continued):

355°	359°	360°		325°	330°	335°	340°	345°	350°	355°
914.2	914.2	914.2	110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
960.2	947.3	946.3	112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
927.2	897.8	888.5	115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
848.5	814.5	807.5	117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
782.4	744.7	738.2	120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
748.4	712.5	704.6	122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
761.4	721.8	717.7	125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
810.3	768.4	770.3	127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
894.2	867.2	860.6	130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1004.0	974.8	966.4	132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1097.6	1082.8	1077.2	135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1165.2	1172.2	1166.6	137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1219.3	1242.5	1239.7	140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1274.6	1319.8	1321.7	142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1315.6	1395.2	1411.6	145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1368.2	1474.9	1491.7	147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1408.3	1533.6	1554.1	150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1447.4	1582.0	1604.4	152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1479.6	1630.0	1652.8	155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1515.9	1676.5	1698.9	157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1581.1	1749.7	1776.1	160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1721.2	1885.2	1922.9	162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1923.9	2072.4	2102.2	165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2106.4	2199.5	2207.4	167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2181.3	2234.4	2232.1	170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2236.3	2242.8	2229.8	172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2266.1	2204.2	2181.9	175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2188.4	2102.2	2072.8	177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1963.9	1918.2	1884.7	180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1670.5	1555.0	1533.1								
1266.2	1114.0	1081.4								
884.9	702.3	658.1								
581.6	450.8	434.0								
377.3	299.4	294.3								
263.1	196.5	181.2								
161.6	65.7	62.9								
50.3	30.3	27.0								
1.4	1.8	1.8								
0.0	0.0	0.0								
0.0	0.0	0.0								
0.0	0.0	0.0								
0.0	0.0	0.0								
0.0	0.0	0.0								
0.0	0.0	0.0								
0.0	0.0	0.0								
0.0	0.0	0.0								
0.0	0.0	0.0								

