

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: P228605

Luminaire Tested: **ISS-AF-800-LED-E1-SLR**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P228605  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29764)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISS-AF-800-LED-E1-SLR  
Description: IMPACT ELITE LED QUATER SPHERE 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: 4173.6 lumens  
Efficiency: N/A  
Efficacy: 95.9 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 - U0 - G2  
  
Input Watts (W): 43.5  
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

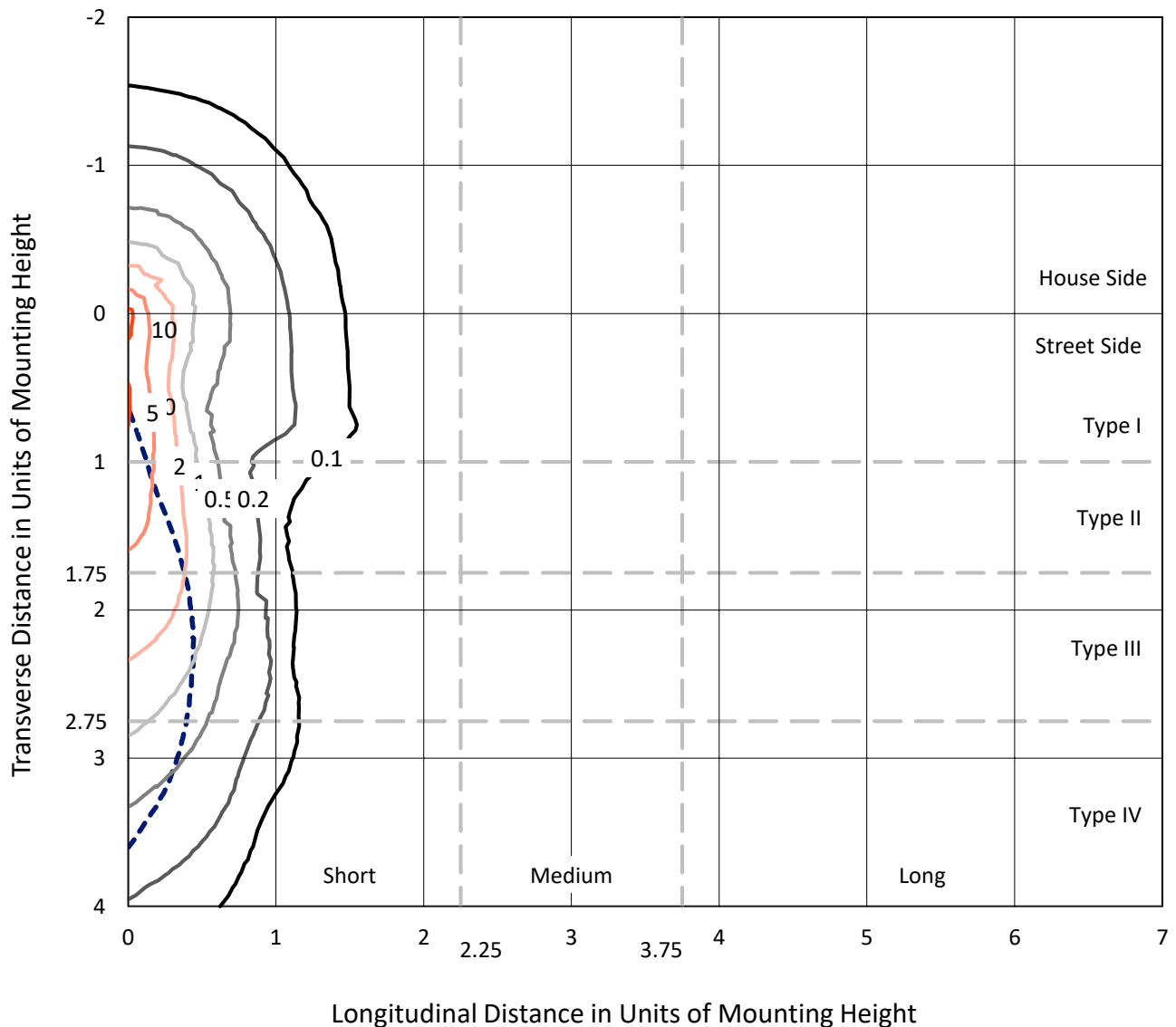


REPORT NUMBER: P228605

CATALOG NUMBER: ISS-AF-800-LED-E1-SLR

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

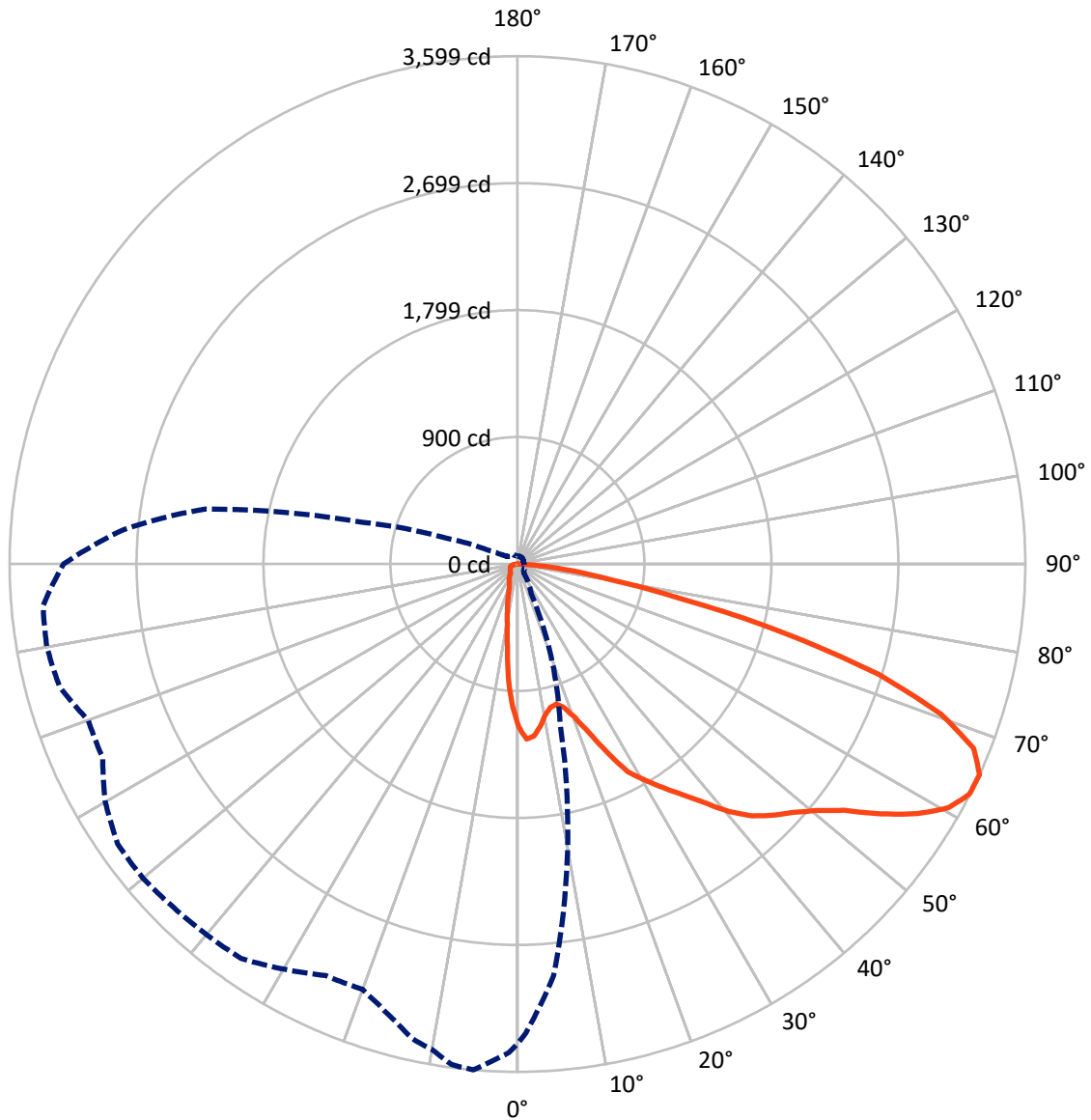


Based on 10 foot mounting height. Maximum calculated value = 11.6 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P228605

CATALOG NUMBER: ISS-AF-800-LED-E1-SLR

### Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P228605

CATALOG NUMBER: ISS-AF-800-LED-E1-SLR

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	694.0	0.0	694.0
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	3479.7	0.0	3479.7
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	4173.6	0.0	4173.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.7	2.1
10°-20°	182.8	4.4
20°-30°	265.7	6.4
30°-40°	392.9	9.4
40°-50°	572.5	13.7
50°-60°	858.2	20.6
60°-70°	1069.4	25.6
70°-80°	626.4	15.0
80°-90°	117.1	2.8
90°-100°	0.0	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°	4173.6	100.0
0°-180°	4173.6	100.0

**Coefficient of Utilization**



REPORT NUMBER: P228605

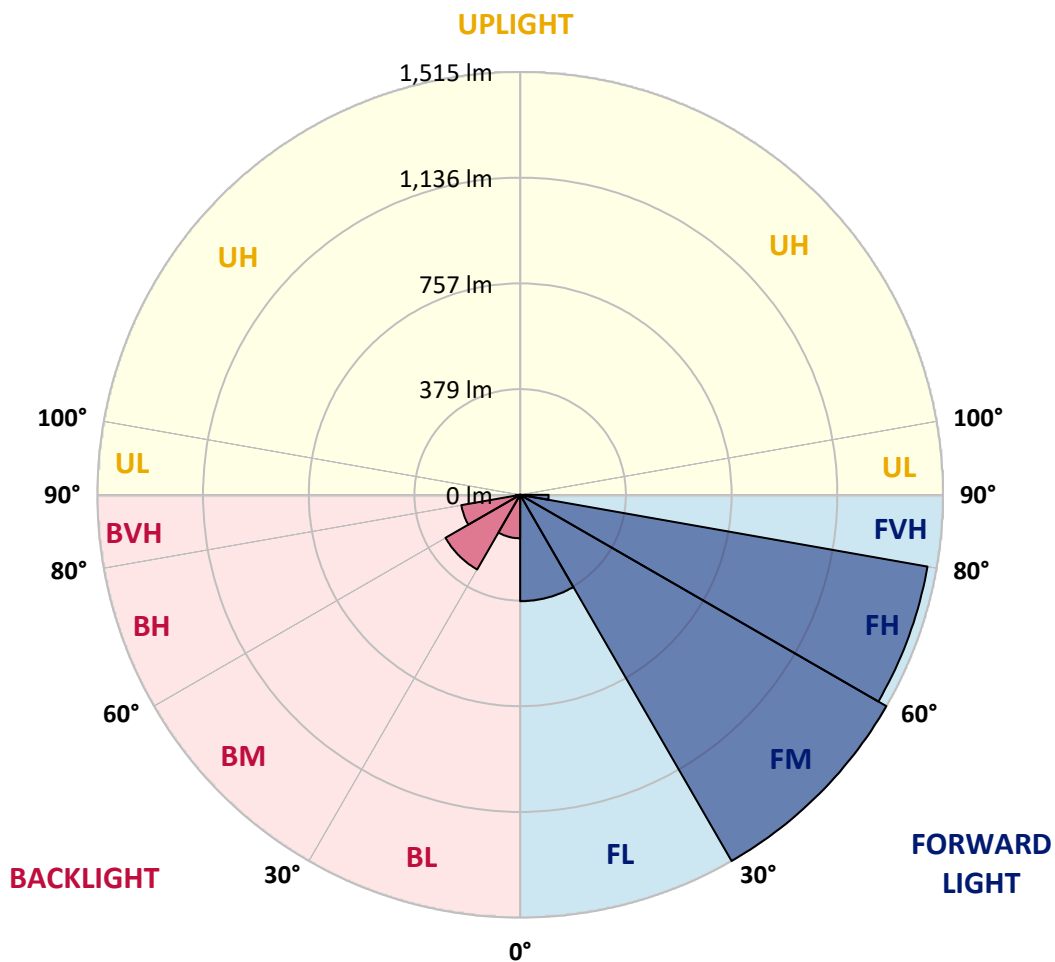
CATALOG NUMBER: ISS-AF-800-LED-E1-SLR

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	381.3	9.1			
FM	(30°-60°)	1514.7	36.3			
FH	(60°-80°)	1481.6	35.5			G1/1800
FVH	(80°-90°)	102.0	2.4			G2/225
BL	(0°-30°)	155.8	3.7	B1/500		
BM	(30°-60°)	308.9	7.4	B1/1000		
BH	(60°-80°)	214.2	5.1	B1/500		G1/500
BVH	(80°-90°)	15.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





REPORT NUMBER: P228605

CATALOG NUMBER: ISS-AF-800-LED-E1-SLR

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°
0°	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0
2.5°	1226.1	1216.2	1196.3	1156.7	1115.3	1075.7	1069.1	1054.3	1055.9	1047.6	1044.3
5°	1186.4	1173.2	1131.9	1049.2	978.2	905.5	900.5	870.8	874.1	855.9	846.0
7.5°	1098.9	1080.6	1034.4	920.3	821.2	725.4	715.5	680.8	675.9	657.7	642.8
10°	1012.9	994.7	936.9	806.4	692.3	621.3	609.7	593.2	580.0	571.7	556.9
12.5°	958.4	948.5	879.0	728.6	639.4	581.6	566.7	550.2	537.0	522.1	507.3
15°	946.8	927.0	855.9	703.9	599.9	528.8	510.6	492.4	477.5	462.7	441.2
17.5°	978.2	958.4	879.0	692.3	555.2	469.2	446.1	421.4	406.5	388.3	365.2
20°	1052.5	1021.2	923.7	675.9	507.3	399.9	371.7	342.1	325.5	294.1	277.6
22.5°	1171.6	1131.9	999.7	675.9	462.7	327.1	295.7	269.3	251.1	223.1	204.9
25°	1341.7	1307.0	1123.6	694.0	423.0	266.1	234.7	208.2	190.1	170.2	158.7
27.5°	1500.4	1445.8	1255.8	720.5	391.6	223.1	191.7	170.2	157.0	147.1	140.5
30°	1619.3	1574.7	1371.5	738.6	345.3	186.7	166.8	153.6	147.1	142.1	138.8
32.5°	1728.4	1677.1	1454.1	750.1	317.2	158.7	140.5	130.5	123.9	117.3	115.7
35°	1844.1	1794.5	1551.6	748.5	299.1	145.4	127.3	115.7	109.0	107.4	104.1
37.5°	2004.4	1936.5	1663.9	748.5	292.5	140.5	119.0	107.4	102.4	99.1	97.5
40°	2159.7	2083.6	1787.9	753.5	285.8	137.2	119.0	107.4	99.1	95.9	92.6
42.5°	2305.0	2220.8	1900.2	761.8	282.5	127.3	112.3	105.8	102.4	95.9	90.8
45°	2415.8	2349.7	1987.8	778.3	282.5	120.6	105.8	100.8	99.1	99.1	97.5
47.5°	2523.2	2448.8	2088.6	809.7	287.6	115.7	100.8	94.2	94.2	94.2	95.9
50°	2662.0	2574.4	2227.4	874.1	287.6	114.1	95.9	89.2	87.6	90.8	90.8
52.5°	2850.4	2787.5	2430.6	966.7	284.2	112.3	94.2	84.3	82.7	84.3	87.6
55°	3116.4	3045.3	2676.9	1080.6	280.9	109.0	90.8	82.7	79.3	77.6	79.3
57.5°	3346.1	3284.9	2903.2	1171.6	272.6	100.8	87.6	80.9	76.0	74.4	72.7
60°	3446.8	3395.6	3048.6	1232.7	257.8	92.6	82.7	77.6	72.7	71.1	69.4
62.5°	3463.4	3399.0	3050.3	1245.9	241.2	84.3	77.6	72.7	69.4	67.7	66.1
65°	3399.0	3326.2	2929.6	1164.9	228.0	84.3	74.4	69.4	64.4	62.8	61.2
67.5°	3253.5	3141.2	2624.0	988.2	216.5	85.9	72.7	64.4	61.2	59.5	57.8
70°	2903.2	2777.6	2215.8	784.9	211.5	87.6	72.7	61.2	56.2	54.5	54.5
72.5°	2326.5	2182.8	1728.4	591.6	203.3	89.2	71.1	57.8	52.9	49.6	49.6
75°	1574.7	1449.1	1171.6	399.9	168.6	77.6	64.4	52.9	46.2	43.0	41.3
77.5°	877.4	836.1	745.2	211.5	107.4	57.8	49.6	43.0	38.1	36.3	34.7
80°	515.6	494.1	439.6	117.3	66.1	33.0	29.8	28.1	24.8	24.8	24.8
82.5°	315.6	294.1	272.6	52.9	31.4	16.6	16.6	13.2	13.2	11.6	11.6
85°	85.9	79.3	110.7	11.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P228605

CATALOG NUMBER: ISS-AF-800-LED-E1-SLR

**CANDELA DISTRIBUTION (continued):**

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0
2.5°	1031.0	1027.8	1027.8	1003.0	1003.0	989.8	986.4	986.4	991.4	988.2	968.3
5°	829.5	819.6	812.9	783.3	775.0	760.1	753.5	751.9	756.8	748.5	722.1
7.5°	624.6	616.3	606.4	583.3	573.4	571.7	551.9	547.0	543.6	537.0	520.5
10°	545.3	533.7	525.5	508.9	497.4	489.1	472.6	464.3	457.7	447.7	442.8
12.5°	490.7	479.2	467.6	446.1	431.3	421.4	411.4	395.0	388.3	376.8	370.1
15°	423.0	409.8	396.6	373.5	353.6	343.7	323.9	313.9	307.3	294.1	287.6
17.5°	340.4	322.2	307.3	285.8	276.0	259.4	247.9	231.3	218.1	213.2	208.2
20°	256.1	239.6	226.4	208.2	198.2	185.1	178.5	166.8	160.3	157.0	153.6
22.5°	188.3	175.1	166.8	157.0	152.0	147.1	143.7	140.5	137.2	135.5	135.5
25°	148.7	143.7	140.5	137.2	135.5	133.8	130.5	128.9	127.3	125.6	125.6
27.5°	135.5	132.2	130.5	128.9	127.3	123.9	123.9	120.6	119.0	119.0	117.3
30°	137.2	137.2	137.2	133.8	132.2	128.9	127.3	122.2	119.0	115.7	114.1
32.5°	112.3	112.3	110.7	107.4	105.8	104.1	104.1	100.8	99.1	99.1	102.4
35°	102.4	100.8	99.1	95.9	94.2	90.8	89.2	87.6	85.9	84.3	84.3
37.5°	97.5	95.9	94.2	90.8	89.2	87.6	85.9	82.7	80.9	80.9	79.3
40°	92.6	92.6	92.6	89.2	87.6	84.3	82.7	80.9	79.3	77.6	77.6
42.5°	89.2	89.2	89.2	87.6	85.9	84.3	80.9	79.3	77.6	76.0	74.4
45°	90.8	89.2	89.2	87.6	85.9	82.7	80.9	77.6	76.0	74.4	72.7
47.5°	97.5	95.9	92.6	89.2	85.9	82.7	79.3	76.0	74.4	72.7	71.1
50°	92.6	99.1	100.8	95.9	87.6	82.7	79.3	76.0	72.7	71.1	69.4
52.5°	90.8	92.6	99.1	99.1	90.8	84.3	79.3	76.0	72.7	69.4	67.7
55°	82.7	87.6	89.2	90.8	89.2	82.7	77.6	72.7	71.1	67.7	64.4
57.5°	72.7	76.0	77.6	80.9	82.7	80.9	74.4	69.4	67.7	64.4	61.2
60°	67.7	67.7	67.7	69.4	77.6	84.3	77.6	67.7	62.8	61.2	57.8
62.5°	62.8	62.8	61.2	62.8	64.4	72.7	71.1	64.4	61.2	59.5	56.2
65°	61.2	59.5	57.8	57.8	57.8	57.8	57.8	57.8	56.2	56.2	54.5
67.5°	56.2	54.5	54.5	52.9	52.9	52.9	52.9	52.9	51.2	51.2	49.6
70°	52.9	51.2	49.6	49.6	49.6	47.9	47.9	47.9	46.2	46.2	46.2
72.5°	47.9	46.2	46.2	46.2	44.6	44.6	44.6	43.0	43.0	41.3	41.3
75°	41.3	41.3	39.7	39.7	39.7	38.1	38.1	38.1	38.1	36.3	36.3
77.5°	34.7	33.0	34.7	33.0	33.0	33.0	33.0	33.0	31.4	31.4	29.8
80°	23.1	23.1	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	23.1
82.5°	13.2	11.6	13.2	13.2	13.2	14.8	14.8	16.6	14.8	14.8	13.2
85°	0.0	0.0	0.0	0.0	0.0	1.6	1.6	3.3	3.3	3.3	3.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





REPORT NUMBER: P228605

CATALOG NUMBER: ISS-AF-800-LED-E1-SLR

**CANDELA DISTRIBUTION (continued):**

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0
2.5°	978.2	976.5	960.0	963.3	958.4	948.5	950.1	951.8	955.0	948.5	945.2
5°	735.3	736.9	715.5	722.1	717.1	715.5	720.5	728.6	733.7	732.0	727.0
7.5°	522.1	523.9	505.6	504.0	499.0	497.4	504.0	512.2	517.2	515.6	517.2
10°	431.3	426.3	409.8	398.2	386.7	376.8	375.1	375.1	375.1	371.7	368.5
12.5°	356.9	352.0	332.2	322.2	312.3	299.1	297.5	295.7	290.8	285.8	279.3
15°	277.6	272.6	256.1	249.5	241.2	236.3	234.7	234.7	231.3	228.0	224.7
17.5°	201.6	198.2	188.3	181.8	180.1	181.8	183.4	186.7	188.3	190.1	190.1
20°	152.0	150.4	147.1	147.1	148.7	153.6	155.3	160.3	161.9	165.2	168.6
22.5°	133.8	133.8	132.2	132.2	135.5	140.5	143.7	145.4	147.1	148.7	148.7
25°	123.9	123.9	122.2	125.6	130.5	130.5	130.5	130.5	127.3	125.6	125.6
27.5°	117.3	117.3	117.3	119.0	117.3	115.7	115.7	115.7	114.1	114.1	112.3
30°	112.3	112.3	112.3	110.7	110.7	109.0	109.0	107.4	107.4	105.8	105.8
32.5°	104.1	100.8	104.1	100.8	100.8	99.1	100.8	100.8	97.5	97.5	97.5
35°	82.7	80.9	80.9	80.9	79.3	80.9	84.3	84.3	84.3	84.3	84.3
37.5°	77.6	77.6	76.0	74.4	74.4	72.7	74.4	72.7	72.7	72.7	74.4
40°	76.0	74.4	72.7	72.7	71.1	69.4	69.4	69.4	69.4	69.4	69.4
42.5°	72.7	72.7	69.4	67.7	67.7	66.1	66.1	66.1	66.1	66.1	66.1
45°	71.1	69.4	67.7	66.1	64.4	64.4	64.4	64.4	64.4	64.4	62.8
47.5°	69.4	67.7	66.1	64.4	62.8	61.2	61.2	61.2	61.2	61.2	61.2
50°	67.7	66.1	62.8	62.8	61.2	59.5	59.5	59.5	59.5	59.5	59.5
52.5°	64.4	64.4	61.2	59.5	57.8	57.8	57.8	57.8	57.8	57.8	57.8
55°	61.2	61.2	57.8	56.2	54.5	54.5	54.5	54.5	56.2	56.2	56.2
57.5°	59.5	57.8	54.5	54.5	51.2	51.2	51.2	52.9	52.9	54.5	54.5
60°	56.2	54.5	52.9	51.2	51.2	49.6	49.6	49.6	49.6	51.2	51.2
62.5°	54.5	52.9	49.6	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9
65°	51.2	51.2	47.9	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
67.5°	47.9	47.9	44.6	43.0	43.0	43.0	44.6	43.0	43.0	43.0	43.0
70°	44.6	43.0	41.3	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
72.5°	39.7	39.7	38.1	36.3	36.3	36.3	36.3	36.3	36.3	36.3	38.1
75°	34.7	33.0	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4
77.5°	29.8	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	28.1
80°	21.5	19.8	19.8	19.8	19.8	21.5	21.5	21.5	21.5	21.5	21.5
82.5°	13.2	11.6	11.6	11.6	13.2	14.8	14.8	14.8	14.8	16.6	16.6
85°	3.3	3.3	3.3	3.3	6.6	8.3	8.3	8.3	9.9	8.3	8.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P228605

CATALOG NUMBER: ISS-AF-800-LED-E1-SLR

**CANDELA DISTRIBUTION (continued):**

	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°
0°	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0
2.5°	941.8	961.7	961.7	948.5	955.0	948.5	946.8	958.4	964.9	986.4	999.7
5°	728.6	753.5	755.1	748.5	756.8	751.9	756.8	771.6	783.3	798.1	811.3
7.5°	520.5	543.6	548.6	543.6	558.5	556.9	560.2	576.6	586.6	594.8	596.5
10°	366.8	370.1	383.4	380.0	389.9	388.3	393.2	406.5	419.7	424.6	428.0
12.5°	276.0	272.6	277.6	271.0	276.0	276.0	277.6	285.8	302.4	309.0	325.5
15°	223.1	219.7	219.7	216.5	216.5	214.8	216.5	223.1	234.7	244.6	257.8
17.5°	190.1	190.1	190.1	188.3	186.7	186.7	188.3	191.7	198.2	204.9	211.5
20°	170.2	173.5	175.1	176.8	178.5	180.1	181.8	186.7	185.1	178.5	170.2
22.5°	148.7	148.7	150.4	150.4	148.7	148.7	148.7	148.7	148.7	153.6	158.7
25°	123.9	123.9	123.9	125.6	123.9	123.9	125.6	125.6	127.3	130.5	135.5
27.5°	112.3	112.3	112.3	112.3	112.3	112.3	112.3	114.1	115.7	120.6	123.9
30°	104.1	104.1	102.4	102.4	102.4	100.8	102.4	102.4	104.1	110.7	115.7
32.5°	95.9	94.2	94.2	94.2	92.6	92.6	92.6	95.9	97.5	100.8	105.8
35°	84.3	84.3	84.3	85.9	85.9	85.9	85.9	89.2	89.2	90.8	90.8
37.5°	76.0	76.0	77.6	79.3	79.3	80.9	80.9	82.7	84.3	82.7	80.9
40°	69.4	71.1	71.1	74.4	74.4	74.4	76.0	77.6	79.3	76.0	76.0
42.5°	66.1	66.1	66.1	67.7	67.7	67.7	69.4	71.1	72.7	72.7	72.7
45°	62.8	62.8	62.8	64.4	62.8	62.8	62.8	64.4	67.7	67.7	69.4
47.5°	61.2	61.2	61.2	59.5	59.5	59.5	59.5	61.2	62.8	66.1	67.7
50°	59.5	57.8	57.8	57.8	57.8	57.8	57.8	59.5	61.2	62.8	66.1
52.5°	56.2	56.2	56.2	56.2	56.2	56.2	56.2	57.8	59.5	61.2	62.8
55°	56.2	56.2	54.5	54.5	56.2	56.2	56.2	57.8	59.5	61.2	61.2
57.5°	54.5	52.9	52.9	54.5	54.5	54.5	54.5	56.2	57.8	59.5	59.5
60°	51.2	51.2	51.2	51.2	52.9	52.9	54.5	56.2	56.2	57.8	57.8
62.5°	47.9	49.6	49.6	49.6	51.2	51.2	52.9	54.5	56.2	57.8	56.2
65°	46.2	47.9	47.9	47.9	49.6	49.6	49.6	52.9	54.5	54.5	56.2
67.5°	44.6	44.6	44.6	46.2	46.2	47.9	47.9	51.2	51.2	52.9	54.5
70°	41.3	41.3	41.3	43.0	43.0	44.6	46.2	47.9	47.9	49.6	51.2
72.5°	38.1	38.1	38.1	39.7	39.7	41.3	43.0	46.2	44.6	46.2	46.2
75°	33.0	33.0	34.7	34.7	36.3	38.1	39.7	39.7	39.7	39.7	39.7
77.5°	28.1	28.1	29.8	29.8	31.4	33.0	33.0	33.0	34.7	33.0	33.0
80°	23.1	23.1	24.8	24.8	24.8	24.8	26.4	24.8	26.4	24.8	26.4
82.5°	16.6	16.6	18.2	16.6	18.2	16.6	16.6	14.8	18.2	16.6	16.6
85°	6.6	8.3	8.3	8.3	8.3	6.6	6.6	4.9	6.6	6.6	4.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P228605

CATALOG NUMBER: ISS-AF-800-LED-E1-SLR

**CANDELA DISTRIBUTION (continued):**

	175°	180°	185°	195°	205°	215°	225°	230°	235°	240°	245°
0°	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0
2.5°	1004.6	1003.0	1027.8	1046.0	1057.5	1102.1	1122.0	1146.7	1158.3	1174.9	1191.3
5°	812.9	809.7	839.4	862.6	882.4	946.8	984.8	1019.5	1047.6	1074.0	1112.0
7.5°	581.6	575.0	594.8	614.7	641.1	710.5	776.6	822.9	864.2	908.8	958.4
10°	429.6	434.5	454.4	484.2	518.8	571.7	624.6	657.7	694.0	743.6	803.0
12.5°	343.7	363.6	380.0	416.4	457.7	517.2	573.4	599.9	626.3	651.0	682.4
15°	276.0	287.6	300.7	335.4	385.0	454.4	520.5	550.2	581.6	611.4	639.4
17.5°	213.2	218.1	224.7	249.5	294.1	376.8	449.5	487.4	523.9	565.1	603.1
20°	170.2	170.2	171.9	183.4	214.8	279.3	368.5	416.4	462.7	515.6	570.1
22.5°	148.7	147.1	148.7	153.6	168.6	206.5	287.6	343.7	403.1	469.2	537.0
25°	140.5	138.8	137.2	140.5	148.7	166.8	224.7	284.2	345.3	424.6	507.3
27.5°	127.3	128.9	130.5	133.8	140.5	150.4	186.7	231.3	299.1	386.7	485.8
30°	119.0	120.6	122.2	125.6	137.2	148.7	170.2	198.2	256.1	342.1	452.8
32.5°	109.0	110.7	112.3	114.1	117.3	130.5	145.4	168.6	218.1	302.4	418.1
35°	89.2	89.2	90.8	95.9	102.4	115.7	130.5	148.7	195.0	276.0	396.6
37.5°	82.7	82.7	84.3	89.2	95.9	107.4	120.6	137.2	185.1	266.1	376.8
40°	77.6	79.3	79.3	84.3	90.8	104.1	112.3	132.2	180.1	251.1	356.9
42.5°	74.4	74.4	76.0	80.9	89.2	99.1	110.7	128.9	166.8	237.9	345.3
45°	71.1	72.7	72.7	77.6	87.6	95.9	112.3	122.2	158.7	228.0	335.4
47.5°	69.4	69.4	71.1	76.0	85.9	97.5	109.0	115.7	150.4	219.7	327.1
50°	66.1	67.7	69.4	74.4	84.3	107.4	104.1	110.7	143.7	213.2	322.2
52.5°	64.4	66.1	67.7	72.7	84.3	109.0	100.8	104.1	138.8	206.5	319.0
55°	62.8	62.8	64.4	71.1	84.3	100.8	94.2	100.8	128.9	196.6	310.7
57.5°	59.5	61.2	62.8	67.7	82.7	92.6	89.2	95.9	119.0	180.1	299.1
60°	59.5	59.5	61.2	66.1	82.7	82.7	84.3	90.8	107.4	160.3	279.3
62.5°	57.8	57.8	59.5	66.1	84.3	74.4	79.3	85.9	99.1	143.7	254.5
65°	56.2	56.2	57.8	62.8	72.7	71.1	76.0	80.9	95.9	132.2	233.0
67.5°	52.9	52.9	54.5	59.5	64.4	66.1	72.7	77.6	94.2	130.5	213.2
70°	49.6	49.6	49.6	54.5	57.8	62.8	67.7	74.4	94.2	128.9	198.2
72.5°	46.2	44.6	46.2	49.6	52.9	56.2	61.2	69.4	92.6	130.5	191.7
75°	39.7	39.7	39.7	43.0	46.2	49.6	54.5	64.4	87.6	122.2	171.9
77.5°	33.0	33.0	31.4	36.3	39.7	41.3	46.2	56.2	76.0	104.1	138.8
80°	24.8	23.1	23.1	28.1	29.8	33.0	36.3	43.0	59.5	76.0	102.4
82.5°	14.8	13.2	13.2	18.2	19.8	21.5	28.1	31.4	39.7	49.6	69.4
85°	4.9	4.9	4.9	8.3	9.9	11.6	16.6	18.2	24.8	31.4	36.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.3	4.9	8.3	9.9	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P228605  
 CATALOG NUMBER: ISS-AF-800-LED-E1-SLR

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	250°	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	
0°	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	0°
2.5°	1211.2	1227.7	1249.2	1269.1	1283.9	1297.1	1313.7	1313.7	1333.5	1340.1	1353.3	2.5°
5°	1141.8	1173.2	1219.5	1257.4	1303.8	1348.4	1389.7	1412.8	1452.5	1478.9	1505.3	5°
7.5°	1001.4	1044.3	1102.1	1155.0	1222.7	1295.5	1363.2	1426.0	1492.1	1548.2	1589.6	7.5°
10°	854.3	913.8	974.9	1042.7	1115.3	1193.0	1275.6	1359.9	1439.2	1518.6	1586.3	10°
12.5°	733.7	801.4	870.8	955.0	1039.3	1122.0	1219.5	1292.2	1374.7	1454.1	1520.2	12.5°
15°	682.4	741.9	822.9	915.4	1004.6	1088.9	1179.8	1254.1	1331.8	1396.2	1442.6	15°
17.5°	660.9	736.9	829.5	927.0	1022.8	1125.2	1206.3	1269.1	1326.9	1356.6	1363.2	17.5°
20°	637.8	741.9	865.8	984.8	1102.1	1209.5	1269.1	1310.3	1320.2	1318.6	1293.8	20°
22.5°	624.6	758.4	912.1	1079.0	1226.1	1351.6	1393.0	1384.7	1343.3	1290.6	1249.2	22.5°
25°	621.3	796.5	991.4	1212.8	1393.0	1518.6	1541.7	1495.3	1402.9	1300.4	1231.0	25°
27.5°	624.6	839.4	1090.6	1356.6	1568.1	1697.0	1688.7	1619.3	1487.2	1343.3	1232.7	27.5°
30°	609.7	884.0	1189.7	1482.2	1692.1	1799.5	1766.4	1662.3	1515.2	1371.5	1254.1	30°
32.5°	584.9	917.1	1277.3	1583.0	1821.0	1901.9	1842.4	1730.0	1578.0	1431.0	1310.3	32.5°
35°	556.9	931.9	1340.1	1677.1	1959.8	2002.6	1906.9	1792.8	1654.0	1505.3	1374.7	35°
37.5°	527.1	933.5	1399.6	1776.4	2093.6	2111.8	1973.0	1850.6	1715.2	1581.3	1462.3	37.5°
40°	510.6	927.0	1460.7	1898.6	2237.3	2212.5	2042.3	1898.6	1764.7	1662.3	1564.8	40°
42.5°	504.0	915.4	1505.3	1991.1	2361.3	2306.8	2106.8	1946.5	1825.9	1739.9	1672.2	42.5°
45°	504.0	903.9	1546.6	2060.5	2453.8	2382.8	2167.9	1992.8	1885.4	1832.5	1799.5	45°
47.5°	505.6	908.8	1596.2	2172.8	2533.1	2455.4	2215.8	2060.5	1968.0	1948.1	1959.8	47.5°
50°	513.9	964.9	1680.5	2296.8	2632.3	2533.1	2280.3	2136.5	2080.4	2100.2	2166.3	50°
52.5°	527.1	1054.3	1825.9	2443.8	2785.9	2657.0	2387.7	2245.6	2219.2	2290.2	2415.8	52.5°
55°	540.3	1145.1	2015.9	2690.1	3033.8	2881.8	2577.7	2435.6	2404.2	2513.3	2693.3	55°
57.5°	551.9	1212.8	2201.0	2934.6	3248.6	3132.9	2828.9	2657.0	2643.8	2761.1	2957.8	57.5°
60°	563.4	1265.7	2308.4	3043.7	3346.1	3334.5	3088.3	2929.6	2909.8	3018.9	3205.6	60°
62.5°	556.9	1245.9	2338.2	2989.2	3337.8	3433.6	3299.8	3187.4	3119.7	3210.5	3392.3	62.5°
65°	532.0	1141.8	2243.9	2800.7	3217.2	3374.1	3385.8	3359.3	3237.0	3243.6	3372.5	65°
67.5°	464.3	960.0	1954.8	2503.4	2980.9	3167.6	3362.5	3354.4	3199.0	3061.9	3088.3	67.5°
70°	385.0	753.5	1594.6	2131.5	2645.5	2805.7	3116.4	3179.1	2957.8	2701.6	2581.0	70°
72.5°	323.9	563.4	1226.1	1650.7	2120.0	2306.8	2767.7	2855.3	2552.9	2192.7	2006.0	72.5°
75°	269.3	398.2	862.6	1136.8	1462.3	1708.5	2415.8	2424.1	2072.1	1725.1	1523.5	75°
77.5°	200.0	271.0	624.6	794.8	1004.6	1216.2	1953.1	1974.6	1644.1	1308.7	1135.2	77.5°
80°	133.8	166.8	398.2	555.2	675.9	814.6	1432.6	1341.7	1085.7	907.2	862.6	80°
82.5°	80.9	97.5	229.7	388.3	426.3	507.3	900.5	841.1	715.5	654.4	670.9	82.5°
85°	44.6	61.2	140.5	254.5	198.2	277.6	492.4	480.9	451.1	395.0	343.7	85°
87.5°	11.6	13.2	31.4	11.6	4.9	14.8	95.9	62.8	62.8	36.3	13.2	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°

NUMBER: P228605  
 NUMBER: ISS-AF-800-LED-E1-SLR

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

305°	310°	315°	325°	335°	340°	342.5°	345°	347.5°	350°	352.5°	0°	355°
1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	1155.0	0°	1155.0
1341.7	1346.7	1345.1	1333.5	1303.8	1292.2	1287.2	1274.0	1259.2	1259.2	1245.9	2.5°	1242.6
1503.6	1511.9	1502.0	1474.0	1397.9	1361.5	1340.1	1313.7	1292.2	1272.3	1252.5	5°	1224.4
1617.7	1624.2	1607.8	1543.3	1407.8	1346.7	1313.7	1282.3	1255.8	1221.1	1189.7	7.5°	1161.7
1639.2	1654.0	1635.9	1543.3	1386.3	1310.3	1274.0	1239.3	1201.3	1164.9	1120.3	10°	1085.7
1578.0	1609.4	1596.2	1528.5	1376.4	1295.5	1252.5	1211.2	1164.9	1126.9	1075.7	12.5°	1042.7
1483.8	1487.2	1495.3	1493.7	1358.3	1278.9	1235.9	1193.0	1151.7	1115.3	1070.7	15°	1029.4
1379.8	1376.4	1386.3	1417.7	1353.3	1290.6	1262.4	1221.1	1191.3	1150.1	1115.3	17.5°	1069.1
1285.5	1280.6	1290.6	1321.9	1333.5	1318.6	1307.0	1282.3	1259.2	1232.7	1204.6	20°	1159.9
1226.1	1209.5	1207.9	1254.1	1343.3	1383.0	1391.3	1388.0	1386.3	1366.6	1346.7	22.5°	1295.5
1193.0	1174.9	1183.1	1235.9	1384.7	1459.0	1497.1	1510.3	1528.5	1528.5	1528.5	25°	1478.9
1183.1	1163.3	1174.9	1234.3	1427.6	1551.6	1606.1	1639.2	1673.9	1688.7	1698.6	27.5°	1667.2
1189.7	1169.8	1174.9	1245.9	1449.1	1573.1	1637.5	1685.4	1739.9	1776.4	1801.1	30°	1776.4
1227.7	1193.0	1189.7	1280.6	1488.8	1621.0	1688.7	1743.2	1804.4	1845.7	1890.3	32.5°	1887.0
1278.9	1229.4	1222.7	1336.8	1540.1	1682.1	1749.9	1797.8	1860.5	1916.8	1981.1	35°	2004.4
1364.8	1303.8	1293.8	1431.0	1609.4	1733.4	1801.1	1863.9	1931.6	2004.4	2086.9	37.5°	2141.4
1480.5	1419.3	1419.3	1551.6	1703.6	1804.4	1878.8	1944.8	2019.2	2116.7	2217.5	40°	2305.0
1611.0	1571.5	1578.0	1697.0	1811.0	1893.6	1964.7	2035.8	2113.4	2210.9	2328.2	42.5°	2440.6
1784.5	1763.1	1796.1	1880.4	1920.1	1976.2	2039.0	2101.9	2186.0	2286.9	2420.7	45°	2539.7
1987.8	2006.0	2052.2	2078.7	2030.8	2060.5	2110.0	2167.9	2267.1	2369.5	2501.7	47.5°	2630.6
2242.3	2290.2	2334.8	2328.2	2167.9	2158.0	2204.3	2248.9	2348.0	2465.3	2605.8	50°	2744.6
2534.8	2597.6	2628.9	2592.6	2321.6	2263.8	2301.7	2362.9	2472.0	2605.8	2762.8	52.5°	2898.2
2832.1	2908.1	2898.2	2857.0	2488.4	2410.8	2433.9	2506.6	2640.5	2792.6	2990.8	55°	3124.6
3101.5	3161.0	3187.4	3098.2	2691.7	2589.3	2615.7	2691.7	2833.8	3004.0	3207.3	57.5°	3339.4
3314.7	3379.1	3379.1	3291.5	2913.2	2794.2	2838.8	2913.2	3035.4	3204.0	3393.9	60°	3508.0
3470.0	3521.2	3503.0	3418.8	3103.1	3012.3	3047.0	3149.5	3260.1	3385.8	3536.0	62.5°	3593.9
3458.4	3463.4	3443.6	3412.2	3217.2	3207.3	3273.3	3352.7	3445.2	3493.2	3577.4	65°	3598.8
3132.9	3134.5	3174.2	3161.0	3131.3	3253.5	3339.4	3405.5	3486.5	3486.5	3476.6	67.5°	3486.5
2567.8	2594.2	2662.0	2642.2	2794.2	3045.3	3144.4	3245.3	3316.3	3316.3	3232.0	70°	3184.1
1954.8	1971.3	2052.2	2034.0	2240.7	2516.6	2734.7	2903.2	2972.6	3015.6	2908.1	72.5°	2675.2
1422.7	1421.1	1455.8	1429.3	1690.4	1997.7	2222.5	2432.3	2546.3	2582.6	2387.7	75°	1961.4
1095.5	1065.8	1059.2	1062.4	1198.0	1452.5	1630.9	1764.7	1779.6	1784.5	1521.8	77.5°	1188.1
884.0	884.0	874.1	837.8	733.7	849.4	940.2	1046.0	1083.9	1138.4	912.1	80°	669.2
705.5	677.5	627.9	556.9	471.0	502.4	545.3	584.9	649.4	672.5	555.2	82.5°	380.0
352.0	342.1	299.1	247.9	206.5	274.3	305.7	309.0	309.0	285.8	233.0	85°	155.3
1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	87.5°	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°	0.0

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**TION (continued):**

359°	360°
1155.0	1155.0
1222.7	1226.1
1196.3	1186.4
1113.7	1098.9
1024.5	1012.9
973.2	958.4
963.3	946.8
998.0	978.2
1075.7	1052.5
1199.6	1171.6
1369.8	1341.7
1536.7	1500.4
1655.6	1619.3
1771.3	1728.4
1887.0	1844.1
2042.3	2004.4
2214.2	2159.7
2356.3	2305.0
2468.7	2415.8
2576.1	2523.2
2698.3	2662.0
2881.8	2850.4
3161.0	3116.4
3365.9	3346.1
3471.7	3446.8
3504.7	3463.4
<b>3461.8</b>	<b>3399.0</b>
3326.2	3253.5
2999.1	2903.2
2390.9	2326.5
1612.7	1574.7
927.0	877.4
532.0	515.6
299.1	315.6
77.6	85.9
0.0	0.0
0.0	0.0

(END OF REPORT)