

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: P228626

Luminaire Tested: **ISS-AF-1200-LED-E1-SLR-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P228626  
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-1200-LED-E1-SLR-8030  
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR RIGHT  
Light Source: (16) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

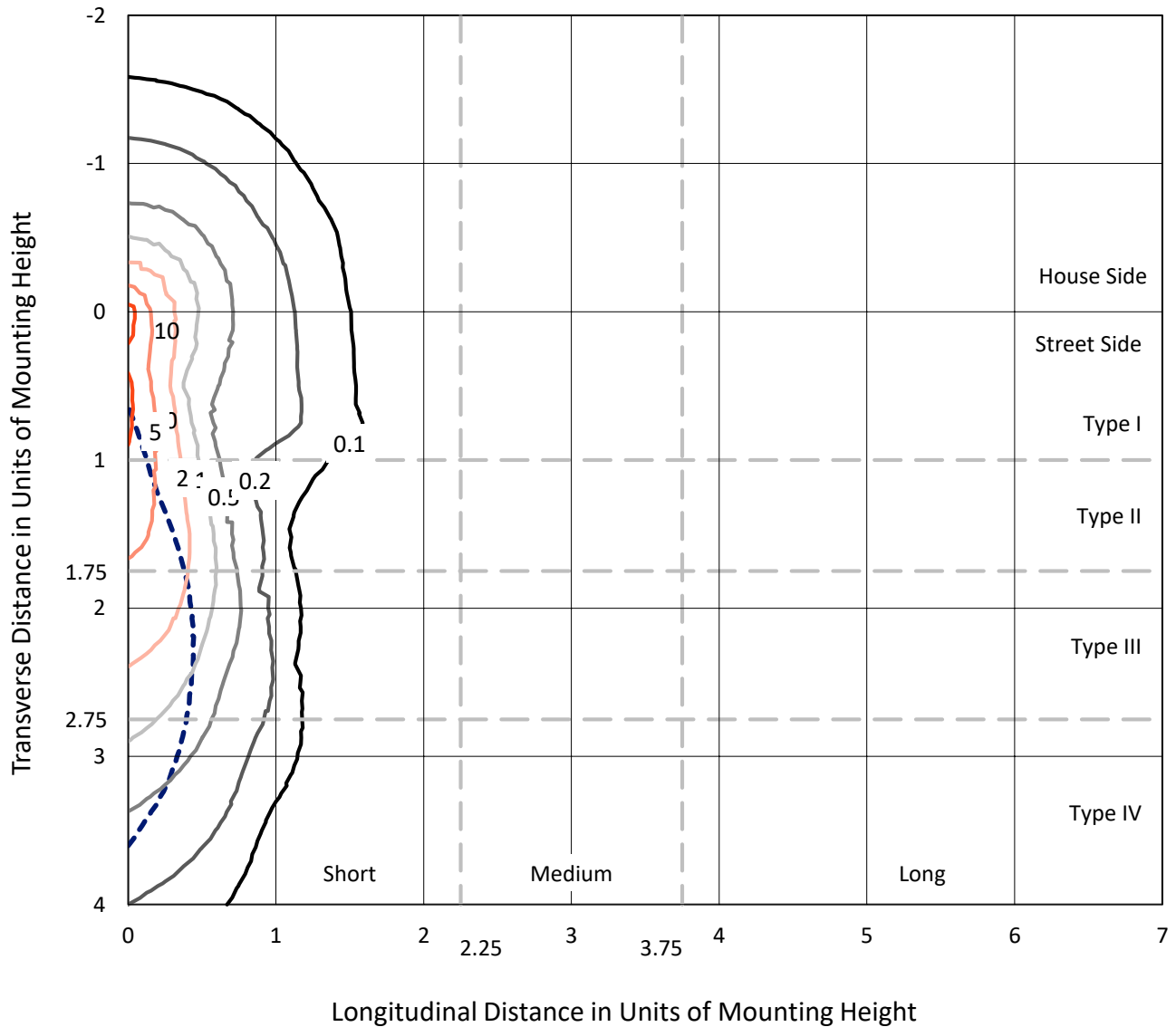
Lumens per Lamp: N/A  
Luminaire Lumens: 4478 lumens  
Efficiency: N/A  
Efficacy: 67.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 66  
Input Voltage (V): 120  
Input Current (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: P228626  
 CATALOG NUMBER: ISS-AF-1200-LED-E1-SLR-8030

### Iso-Footcandle Lines of Horizontal Illumination

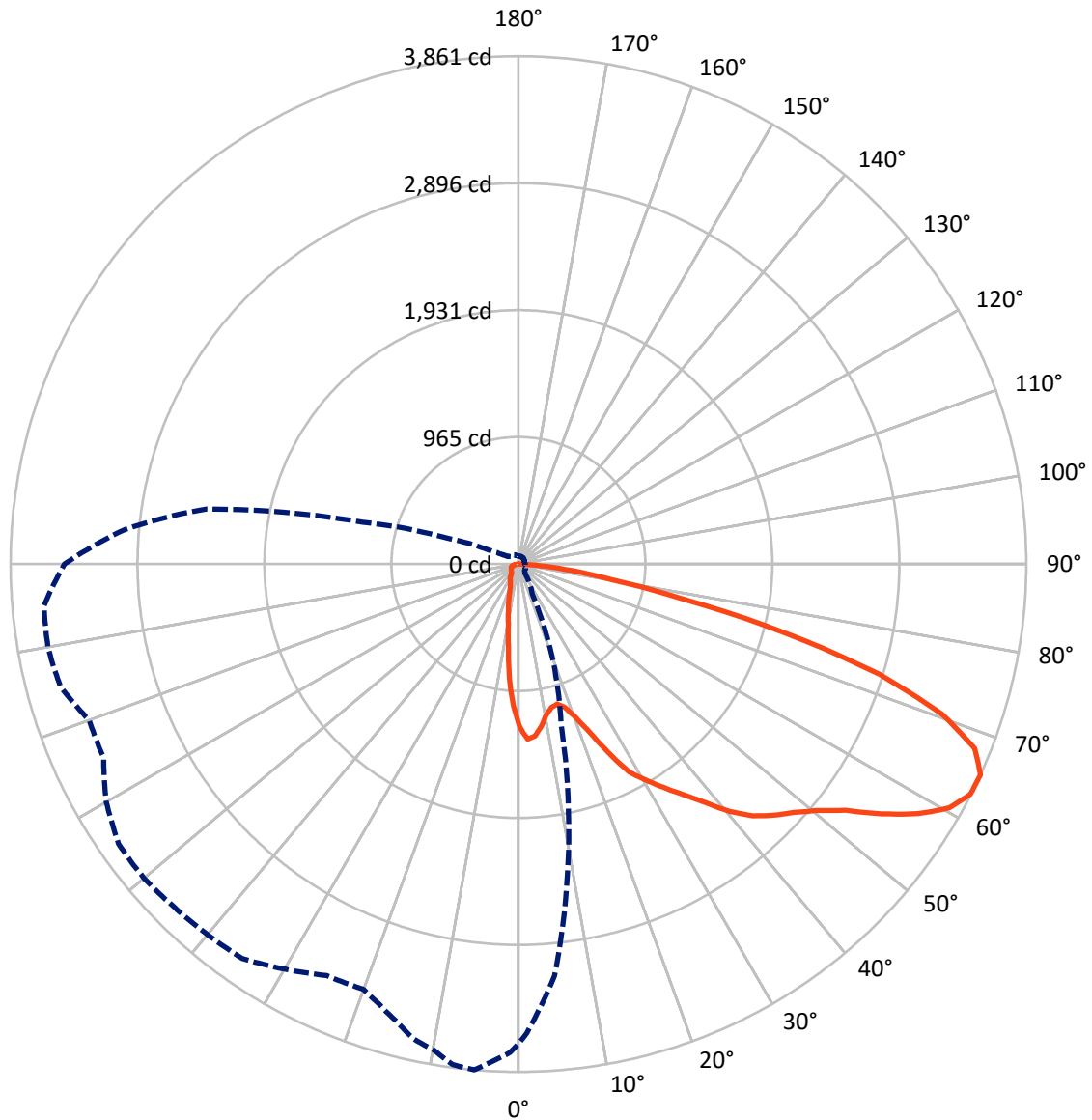
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.4 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P228626  
CATALOG NUMBER: ISS-AF-1200-LED-E1-SLR-8030

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P228626

CATALOG NUMBER: ISS-AF-1200-LED-E1-SLR-8030

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	744.6	0.0	744.6
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	3733.4	0.0	3733.4
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	4478.0	0.0	4478.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.1	2.1
10°-20°	196.1	4.4
20°-30°	285.0	6.4
30°-40°	421.6	9.4
40°-50°	614.2	13.7
50°-60°	920.8	20.6
60°-70°	1147.4	25.6
70°-80°	672.1	15.0
80°-90°	125.7	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°	4478.0	100.0
0°-180°	4478.0	100.0



REPORT NUMBER: P228626

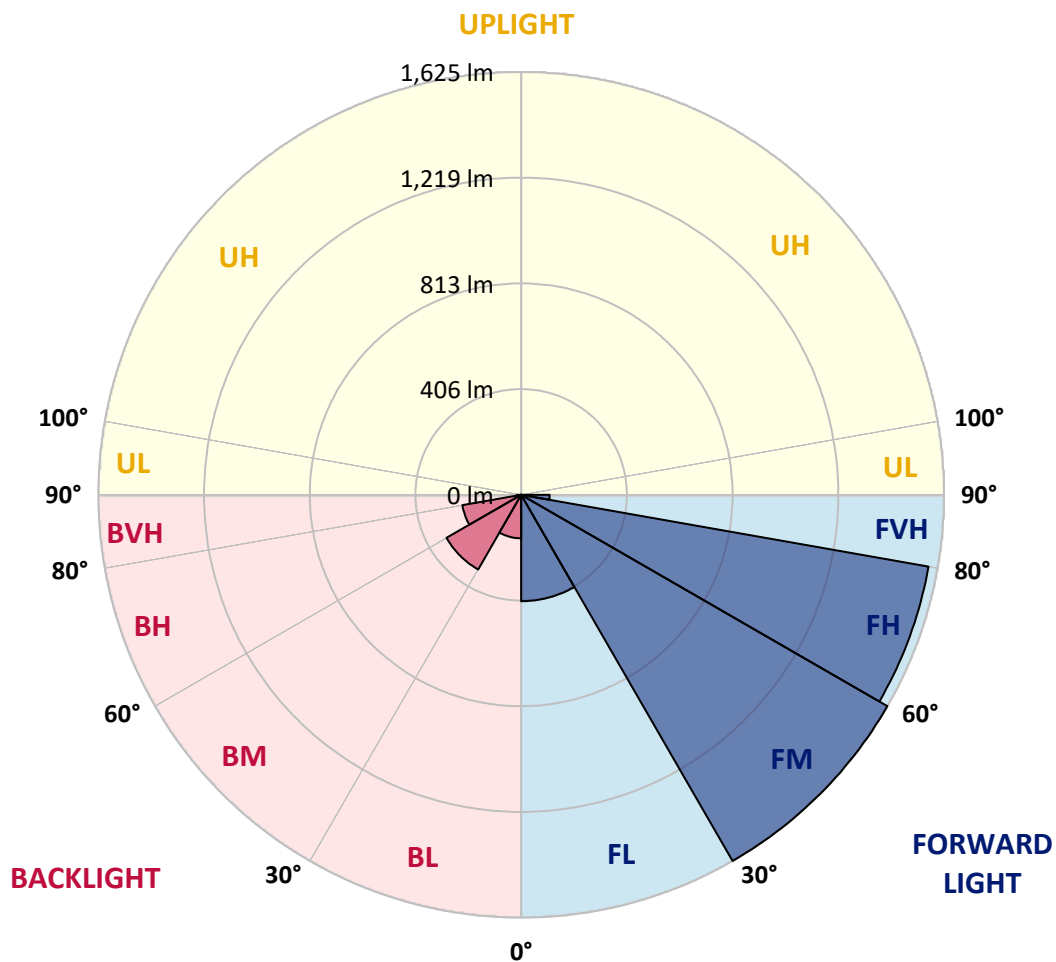
CATALOG NUMBER: ISS-AF-1200-LED-E1-SLR-8030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	409.1	9.1			
FM	(30°-60°)	1625.2	36.3			
FH	(60°-80°)	1589.7	35.5			G1/1800
FVH	(80°-90°)	109.5	2.4			G2/225
BL	(0°-30°)	167.2	3.7	B1/500		
BM	(30°-60°)	331.4	7.4	B1/1000		
BH	(60°-80°)	229.8	5.1	B1/500		G1/500
BVH	(80°-90°)	16.2	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: P228626

CATALOG NUMBER: ISS-AF-1200-LED-E1-SLR-8030

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°
0°	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2
2.5°	1315.5	1304.8	1283.6	1241.0	1196.7	1154.1	1147.1	1131.1	1132.9	1124.0	1120.5
5°	1272.9	1258.7	1214.4	1125.8	1049.5	971.5	966.2	934.3	937.9	918.3	907.7
7.5°	1179.0	1159.5	1109.8	987.5	881.1	778.3	767.7	730.4	725.1	705.6	689.6
10°	1086.8	1067.3	1005.2	865.2	742.8	666.6	654.2	636.5	622.3	613.4	597.5
12.5°	1028.3	1017.6	943.2	781.8	686.1	624.1	608.1	590.4	576.2	560.2	544.3
15°	1015.9	994.6	918.3	755.2	643.6	567.3	547.8	528.3	512.4	496.4	473.4
17.5°	1049.5	1028.3	943.2	742.8	595.7	503.5	478.7	452.1	436.1	416.6	391.8
20°	1129.3	1095.6	991.0	725.1	544.3	429.0	398.9	367.0	349.3	315.6	297.8
22.5°	1257.0	1214.4	1072.6	725.1	496.4	351.0	317.3	289.0	269.5	239.3	219.8
25°	1439.6	1402.3	1205.6	744.6	453.9	285.4	251.7	223.4	203.9	182.6	170.2
27.5°	1609.8	1551.3	1347.4	773.0	420.2	239.3	205.7	182.6	168.4	157.8	150.7
30°	1737.4	1689.5	1471.5	792.5	370.5	200.3	179.1	164.9	157.8	152.5	148.9
32.5°	1854.4	1799.5	1560.1	804.9	340.4	170.2	150.7	140.1	133.0	125.9	124.1
35°	1978.5	1925.3	1664.7	803.1	320.9	156.0	136.5	124.1	117.0	115.2	111.7
37.5°	2150.5	2077.8	1785.3	803.1	313.8	150.7	127.6	115.2	109.9	106.4	104.6
40°	2317.1	2235.6	1918.3	808.4	306.7	147.1	127.6	115.2	106.4	102.8	99.3
42.5°	2473.2	2382.7	2038.8	817.3	303.2	136.5	120.6	113.5	109.9	102.8	97.5
45°	2591.9	2521.0	2132.8	835.0	303.2	129.4	113.5	108.1	106.4	106.4	104.6
47.5°	2707.2	2627.4	2240.9	868.7	308.5	124.1	108.1	101.1	101.1	101.1	102.8
50°	2856.1	2762.1	2389.8	937.9	308.5	122.3	102.8	95.7	94.0	97.5	97.5
52.5°	3058.2	2990.8	2607.9	1037.1	304.9	120.6	101.1	90.4	88.6	90.4	94.0
55°	3343.6	3267.4	2872.1	1159.5	301.4	117.0	97.5	88.6	85.1	83.3	85.1
57.5°	3590.1	3524.5	3114.9	1257.0	292.5	108.1	94.0	86.9	81.6	79.8	78.0
60°	3698.2	3643.3	3271.0	1322.6	276.6	99.3	88.6	83.3	78.0	76.2	74.5
62.5°	3715.9	3646.8	3272.7	1336.7	258.8	90.4	83.3	78.0	74.5	72.7	70.9
65°	3646.8	3568.8	3143.3	1249.9	244.7	90.4	79.8	74.5	69.1	67.4	65.6
67.5°	3490.8	3370.2	2815.3	1060.2	232.2	92.2	78.0	69.1	65.6	63.8	62.1
70°	3114.9	2980.2	2377.4	842.1	226.9	94.0	78.0	65.6	60.3	58.5	58.5
72.5°	2496.2	2342.0	1854.4	634.7	218.1	95.7	76.2	62.1	56.7	53.2	53.2
75°	1689.5	1554.8	1257.0	429.0	180.8	83.3	69.1	56.7	49.6	46.1	44.3
77.5°	941.4	897.1	799.6	226.9	115.2	62.1	53.2	46.1	40.8	39.0	37.2
80°	553.1	530.1	471.6	125.9	70.9	35.5	31.9	30.1	26.6	26.6	26.6
82.5°	338.6	315.6	292.5	56.7	33.7	17.7	17.7	14.2	14.2	12.4	12.4
85°	92.2	85.1	118.8	12.4	3.5	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: P228626

CATALOG NUMBER: ISS-AF-1200-LED-E1-SLR-8030

**CANDELA DISTRIBUTION (continued):**

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2
2.5°	1106.3	1102.7	1102.7	1076.1	1076.1	1062.0	1058.4	1058.4	1063.7	1060.2	1038.9
5°	890.0	879.3	872.3	840.3	831.5	815.5	808.4	806.7	812.0	803.1	774.7
7.5°	670.1	661.3	650.6	625.8	615.2	613.4	592.1	586.8	583.3	576.2	558.5
10°	585.0	572.6	563.8	546.0	533.6	524.8	507.0	498.2	491.1	480.4	475.1
12.5°	526.5	514.1	501.7	478.7	462.7	452.1	441.4	423.7	416.6	404.2	397.1
15°	453.9	439.7	425.5	400.7	379.4	368.8	347.5	336.8	329.8	315.6	308.5
17.5°	365.2	345.7	329.8	306.7	296.1	278.3	265.9	248.2	234.0	228.7	223.4
20°	274.8	257.1	242.9	223.4	212.7	198.6	191.5	179.1	172.0	168.4	164.9
22.5°	202.1	187.9	179.1	168.4	163.1	157.8	154.2	150.7	147.1	145.4	145.4
25°	159.6	154.2	150.7	147.1	145.4	143.6	140.1	138.3	136.5	134.7	134.7
27.5°	145.4	141.8	140.1	138.3	136.5	133.0	133.0	129.4	127.6	127.6	125.9
30°	147.1	147.1	147.1	143.6	141.8	138.3	136.5	131.2	127.6	124.1	122.3
32.5°	120.6	120.6	118.8	115.2	113.5	111.7	111.7	108.1	106.4	106.4	109.9
35°	109.9	108.1	106.4	102.8	101.1	97.5	95.7	94.0	92.2	90.4	90.4
37.5°	104.6	102.8	101.1	97.5	95.7	94.0	92.2	88.6	86.9	86.9	85.1
40°	99.3	99.3	99.3	95.7	94.0	90.4	88.6	86.9	85.1	83.3	83.3
42.5°	95.7	95.7	95.7	94.0	92.2	90.4	86.9	85.1	83.3	81.6	79.8
45°	97.5	95.7	95.7	94.0	92.2	88.6	86.9	83.3	81.6	79.8	78.0
47.5°	104.6	102.8	99.3	95.7	92.2	88.6	85.1	81.6	79.8	78.0	76.2
50°	99.3	106.4	108.1	102.8	94.0	88.6	85.1	81.6	78.0	76.2	74.5
52.5°	97.5	99.3	106.4	106.4	97.5	90.4	85.1	81.6	78.0	74.5	72.7
55°	88.6	94.0	95.7	97.5	95.7	88.6	83.3	78.0	76.2	72.7	69.1
57.5°	78.0	81.6	83.3	86.9	88.6	86.9	79.8	74.5	72.7	69.1	65.6
60°	72.7	72.7	72.7	74.5	83.3	90.4	83.3	72.7	67.4	65.6	62.1
62.5°	67.4	67.4	65.6	67.4	69.1	78.0	76.2	69.1	65.6	63.8	60.3
65°	65.6	63.8	62.1	62.1	62.1	62.1	62.1	62.1	60.3	60.3	58.5
67.5°	60.3	58.5	58.5	56.7	56.7	56.7	56.7	56.7	55.0	55.0	53.2
70°	56.7	55.0	53.2	53.2	53.2	51.4	51.4	51.4	49.6	49.6	49.6
72.5°	51.4	49.6	49.6	49.6	47.9	47.9	47.9	46.1	46.1	44.3	44.3
75°	44.3	44.3	42.5	42.5	42.5	40.8	40.8	40.8	40.8	39.0	39.0
77.5°	37.2	35.5	37.2	35.5	35.5	35.5	35.5	35.5	33.7	33.7	31.9
80°	24.8	24.8	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	24.8
82.5°	14.2	12.4	14.2	14.2	14.2	16.0	16.0	17.7	16.0	16.0	14.2
85°	0.0	0.0	0.0	0.0	0.0	1.8	1.8	3.5	3.5	3.5	3.5
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: P228626

CATALOG NUMBER: ISS-AF-1200-LED-E1-SLR-8030

**CANDELA DISTRIBUTION (continued):**

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2
2.5°	1049.5	1047.8	1030.0	1033.6	1028.3	1017.6	1019.4	1021.2	1024.7	1017.6	1014.1
5°	788.9	790.7	767.7	774.7	769.4	767.7	773.0	781.8	787.2	785.4	780.1
7.5°	560.2	562.0	542.5	540.7	535.4	533.6	540.7	549.6	554.9	553.1	554.9
10°	462.7	457.4	439.7	427.3	414.9	404.2	402.4	402.4	402.4	398.9	395.4
12.5°	382.9	377.6	356.3	345.7	335.1	320.9	319.1	317.3	312.0	306.7	299.6
15°	297.8	292.5	274.8	267.7	258.8	253.5	251.7	251.7	248.2	244.7	241.1
17.5°	216.3	212.7	202.1	195.0	193.2	195.0	196.8	200.3	202.1	203.9	203.9
20°	163.1	161.3	157.8	157.8	159.6	164.9	166.7	172.0	173.7	177.3	180.8
22.5°	143.6	143.6	141.8	141.8	145.4	150.7	154.2	156.0	157.8	159.6	159.6
25°	133.0	133.0	131.2	134.7	140.1	140.1	140.1	140.1	136.5	134.7	134.7
27.5°	125.9	125.9	125.9	127.6	125.9	124.1	124.1	124.1	122.3	122.3	120.6
30°	120.6	120.6	120.6	118.8	118.8	117.0	117.0	115.2	115.2	113.5	113.5
32.5°	111.7	108.1	111.7	108.1	108.1	106.4	108.1	108.1	104.6	104.6	104.6
35°	88.6	86.9	86.9	86.9	85.1	86.9	90.4	90.4	90.4	90.4	90.4
37.5°	83.3	83.3	81.6	79.8	79.8	78.0	79.8	78.0	78.0	78.0	79.8
40°	81.6	79.8	78.0	78.0	76.2	74.5	74.5	74.5	74.5	74.5	74.5
42.5°	78.0	78.0	74.5	72.7	72.7	70.9	70.9	70.9	70.9	70.9	70.9
45°	76.2	74.5	72.7	70.9	69.1	69.1	69.1	69.1	69.1	69.1	67.4
47.5°	74.5	72.7	70.9	69.1	67.4	65.6	65.6	65.6	65.6	65.6	65.6
50°	72.7	70.9	67.4	67.4	65.6	63.8	63.8	63.8	63.8	63.8	63.8
52.5°	69.1	69.1	65.6	63.8	62.1	62.1	62.1	62.1	62.1	62.1	62.1
55°	65.6	65.6	62.1	60.3	58.5	58.5	58.5	58.5	60.3	60.3	60.3
57.5°	63.8	62.1	58.5	58.5	55.0	55.0	55.0	56.7	56.7	58.5	58.5
60°	60.3	58.5	56.7	55.0	55.0	53.2	53.2	53.2	53.2	55.0	55.0
62.5°	58.5	56.7	53.2	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
65°	55.0	55.0	51.4	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
67.5°	51.4	51.4	47.9	46.1	46.1	46.1	47.9	46.1	46.1	46.1	46.1
70°	47.9	46.1	44.3	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
72.5°	42.5	42.5	40.8	39.0	39.0	39.0	39.0	39.0	39.0	39.0	40.8
75°	37.2	35.5	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7
77.5°	31.9	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	30.1
80°	23.0	21.3	21.3	21.3	21.3	23.0	23.0	23.0	23.0	23.0	23.0
82.5°	14.2	12.4	12.4	12.4	14.2	16.0	16.0	16.0	16.0	17.7	17.7
85°	3.5	3.5	3.5	3.5	7.1	8.9	8.9	8.9	10.6	8.9	8.9
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: P228626

CATALOG NUMBER: ISS-AF-1200-LED-E1-SLR-8030

**CANDELA DISTRIBUTION (continued):**

	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°
0°	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2
2.5°	1010.5	1031.8	1031.8	1017.6	1024.7	1017.6	1015.9	1028.3	1035.4	1058.4	1072.6
5°	781.8	808.4	810.2	803.1	812.0	806.7	812.0	827.9	840.3	856.3	870.5
7.5°	558.5	583.3	588.6	583.3	599.2	597.5	601.0	618.7	629.4	638.2	640.0
10°	393.6	397.1	411.3	407.8	418.4	416.6	421.9	436.1	450.3	455.6	459.2
12.5°	296.1	292.5	297.8	290.8	296.1	296.1	297.8	306.7	324.4	331.5	349.3
15°	239.3	235.8	235.8	232.2	232.2	230.5	232.2	239.3	251.7	262.4	276.6
17.5°	203.9	203.9	203.9	202.1	200.3	200.3	202.1	205.7	212.7	219.8	226.9
20°	182.6	186.2	187.9	189.7	191.5	193.2	195.0	200.3	198.6	191.5	182.6
22.5°	159.6	159.6	161.3	161.3	159.6	159.6	159.6	159.6	159.6	164.9	170.2
25°	133.0	133.0	133.0	134.7	133.0	133.0	134.7	134.7	136.5	140.1	145.4
27.5°	120.6	120.6	120.6	120.6	120.6	120.6	120.6	122.3	124.1	129.4	133.0
30°	111.7	111.7	109.9	109.9	109.9	108.1	109.9	109.9	111.7	118.8	124.1
32.5°	102.8	101.1	101.1	101.1	99.3	99.3	99.3	102.8	104.6	108.1	113.5
35°	90.4	90.4	90.4	92.2	92.2	92.2	92.2	95.7	95.7	97.5	97.5
37.5°	81.6	81.6	83.3	85.1	85.1	86.9	86.9	88.6	90.4	88.6	86.9
40°	74.5	76.2	76.2	79.8	79.8	79.8	81.6	83.3	85.1	81.6	81.6
42.5°	70.9	70.9	70.9	72.7	72.7	72.7	74.5	76.2	78.0	78.0	78.0
45°	67.4	67.4	67.4	69.1	67.4	67.4	67.4	69.1	72.7	72.7	74.5
47.5°	65.6	65.6	65.6	63.8	63.8	63.8	63.8	65.6	67.4	70.9	72.7
50°	63.8	62.1	62.1	62.1	62.1	62.1	62.1	63.8	65.6	67.4	70.9
52.5°	60.3	60.3	60.3	60.3	60.3	60.3	60.3	62.1	63.8	65.6	67.4
55°	60.3	60.3	58.5	58.5	60.3	60.3	60.3	62.1	63.8	65.6	65.6
57.5°	58.5	56.7	56.7	58.5	58.5	58.5	58.5	60.3	62.1	63.8	63.8
60°	55.0	55.0	55.0	55.0	56.7	56.7	58.5	60.3	60.3	62.1	62.1
62.5°	51.4	53.2	53.2	53.2	55.0	55.0	56.7	58.5	60.3	62.1	60.3
65°	49.6	51.4	51.4	51.4	53.2	53.2	53.2	56.7	58.5	58.5	60.3
67.5°	47.9	47.9	47.9	49.6	49.6	51.4	51.4	55.0	55.0	56.7	58.5
70°	44.3	44.3	44.3	46.1	46.1	47.9	49.6	51.4	51.4	53.2	55.0
72.5°	40.8	40.8	40.8	42.5	42.5	44.3	46.1	49.6	47.9	49.6	49.6
75°	35.5	35.5	37.2	37.2	39.0	40.8	42.5	42.5	42.5	42.5	42.5
77.5°	30.1	30.1	31.9	31.9	33.7	35.5	35.5	35.5	37.2	35.5	35.5
80°	24.8	24.8	26.6	26.6	26.6	26.6	28.4	26.6	28.4	26.6	28.4
82.5°	17.7	17.7	19.5	17.7	19.5	17.7	17.7	16.0	19.5	17.7	17.7
85°	7.1	8.9	8.9	8.9	8.9	7.1	7.1	5.3	7.1	7.1	5.3
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: P228626

CATALOG NUMBER: ISS-AF-1200-LED-E1-SLR-8030

**CANDELA DISTRIBUTION (continued):**

	175°	180°	185°	195°	205°	215°	225°	230°	235°	240°	245°
0°	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2
2.5°	1077.9	1076.1	1102.7	1122.2	1134.6	1182.5	1203.8	1230.4	1242.8	1260.5	1278.2
5°	872.3	868.7	900.6	925.4	946.7	1015.9	1056.6	1093.9	1124.0	1152.4	1193.1
7.5°	624.1	617.0	638.2	659.5	687.9	762.3	833.3	882.9	927.2	975.1	1028.3
10°	460.9	466.3	487.5	519.5	556.7	613.4	670.1	705.6	744.6	797.8	861.6
12.5°	368.8	390.0	407.8	446.8	491.1	554.9	615.2	643.6	671.9	698.5	732.2
15°	296.1	308.5	322.7	359.9	413.1	487.5	558.5	590.4	624.1	656.0	686.1
17.5°	228.7	234.0	241.1	267.7	315.6	404.2	482.2	523.0	562.0	606.3	647.1
20°	182.6	182.6	184.4	196.8	230.5	299.6	395.4	446.8	496.4	553.1	611.6
22.5°	159.6	157.8	159.6	164.9	180.8	221.6	308.5	368.8	432.6	503.5	576.2
25°	150.7	148.9	147.1	150.7	159.6	179.1	241.1	304.9	370.5	455.6	544.3
27.5°	136.5	138.3	140.1	143.6	150.7	161.3	200.3	248.2	320.9	414.9	521.2
30°	127.6	129.4	131.2	134.7	147.1	159.6	182.6	212.7	274.8	367.0	485.8
32.5°	117.0	118.8	120.6	122.3	125.9	140.1	156.0	180.8	234.0	324.4	448.5
35°	95.7	95.7	97.5	102.8	109.9	124.1	140.1	159.6	209.2	296.1	425.5
37.5°	88.6	88.6	90.4	95.7	102.8	115.2	129.4	147.1	198.6	285.4	404.2
40°	83.3	85.1	85.1	90.4	97.5	111.7	120.6	141.8	193.2	269.5	382.9
42.5°	79.8	79.8	81.6	86.9	95.7	106.4	118.8	138.3	179.1	255.3	370.5
45°	76.2	78.0	78.0	83.3	94.0	102.8	120.6	131.2	170.2	244.7	359.9
47.5°	74.5	74.5	76.2	81.6	92.2	104.6	117.0	124.1	161.3	235.8	351.0
50°	70.9	72.7	74.5	79.8	90.4	115.2	111.7	118.8	154.2	228.7	345.7
52.5°	69.1	70.9	72.7	78.0	90.4	117.0	108.1	111.7	148.9	221.6	342.2
55°	67.4	67.4	69.1	76.2	90.4	108.1	101.1	108.1	138.3	211.0	333.3
57.5°	63.8	65.6	67.4	72.7	88.6	99.3	95.7	102.8	127.6	193.2	320.9
60°	63.8	63.8	65.6	70.9	88.6	88.6	90.4	97.5	115.2	172.0	299.6
62.5°	62.1	62.1	63.8	70.9	90.4	79.8	85.1	92.2	106.4	154.2	273.0
65°	60.3	60.3	62.1	67.4	78.0	76.2	81.6	86.9	102.8	141.8	250.0
67.5°	56.7	56.7	58.5	63.8	69.1	70.9	78.0	83.3	101.1	140.1	228.7
70°	53.2	53.2	53.2	58.5	62.1	67.4	72.7	79.8	101.1	138.3	212.7
72.5°	49.6	47.9	49.6	53.2	56.7	60.3	65.6	74.5	99.3	140.1	205.7
75°	42.5	42.5	42.5	46.1	49.6	53.2	58.5	69.1	94.0	131.2	184.4
77.5°	35.5	35.5	33.7	39.0	42.5	44.3	49.6	60.3	81.6	111.7	148.9
80°	26.6	24.8	24.8	30.1	31.9	35.5	39.0	46.1	63.8	81.6	109.9
82.5°	16.0	14.2	14.2	19.5	21.3	23.0	30.1	33.7	42.5	53.2	74.5
85°	5.3	5.3	5.3	8.9	10.6	12.4	17.7	19.5	26.6	33.7	39.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	5.3	8.9	10.6	8.9
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: P228626  
 CATALOG NUMBER: ISS-AF-1200-LED-E1-SLR-8030

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	250°	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	
0°	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	0°
2.5°	1299.5	1317.2	1340.3	1361.6	1377.5	1391.7	1409.4	1409.4	1430.7	1437.8	1452.0	2.5°
5°	1225.1	1258.7	1308.4	1349.2	1398.8	1446.7	1491.0	1515.8	1558.4	1586.7	1615.1	5°
7.5°	1074.4	1120.5	1182.5	1239.2	1311.9	1389.9	1462.6	1530.0	1600.9	1661.2	1705.5	7.5°
10°	916.6	980.4	1046.0	1118.7	1196.7	1280.0	1368.7	1459.1	1544.2	1629.3	1702.0	10°
12.5°	787.2	859.8	934.3	1024.7	1115.1	1203.8	1308.4	1386.4	1475.0	1560.1	1631.0	12.5°
15°	732.2	796.0	882.9	982.2	1077.9	1168.3	1265.8	1345.6	1428.9	1498.1	1547.7	15°
17.5°	709.1	790.7	890.0	994.6	1097.4	1207.3	1294.2	1361.6	1423.6	1455.5	1462.6	17.5°
20°	684.3	796.0	929.0	1056.6	1182.5	1297.7	1361.6	1405.9	1416.5	1414.8	1388.2	20°
22.5°	670.1	813.7	978.6	1157.7	1315.5	1450.2	1494.5	1485.7	1441.3	1384.6	1340.3	22.5°
25°	666.6	854.5	1063.7	1301.3	1494.5	1629.3	1654.1	1604.5	1505.2	1395.3	1320.8	25°
27.5°	670.1	900.6	1170.1	1455.5	1682.5	1820.7	1811.9	1737.4	1595.6	1441.3	1322.6	27.5°
30°	654.2	948.5	1276.5	1590.3	1815.4	1930.7	1895.2	1783.5	1625.7	1471.5	1345.6	30°
32.5°	627.6	983.9	1370.4	1698.4	1953.7	2040.6	1976.8	1856.2	1693.1	1535.3	1405.9	32.5°
35°	597.5	999.9	1437.8	1799.5	2102.6	2148.7	2045.9	1923.6	1774.6	1615.1	1475.0	35°
37.5°	565.5	1001.7	1501.6	1905.8	2246.2	2265.7	2116.8	1985.6	1840.2	1696.6	1569.0	37.5°
40°	547.8	994.6	1567.2	2037.0	2400.5	2373.9	2191.3	2037.0	1893.4	1783.5	1678.9	40°
42.5°	540.7	982.2	1615.1	2136.3	2533.4	2474.9	2260.4	2088.4	1959.0	1866.8	1794.1	42.5°
45°	540.7	969.8	1659.4	2210.8	2632.7	2556.5	2326.0	2138.1	2022.9	1966.1	1930.7	45°
47.5°	542.5	975.1	1712.6	2331.3	2717.8	2634.5	2377.4	2210.8	2111.5	2090.2	2102.6	47.5°
50°	551.4	1035.4	1803.0	2464.3	2824.2	2717.8	2446.6	2292.3	2232.0	2253.3	2324.2	50°
52.5°	565.5	1131.1	1959.0	2622.1	2989.1	2850.8	2561.8	2409.3	2381.0	2457.2	2591.9	52.5°
55°	579.7	1228.6	2162.9	2886.2	3255.0	3091.9	2765.7	2613.2	2579.5	2696.5	2889.8	55°
57.5°	592.1	1301.3	2361.5	3148.6	3485.5	3361.4	3035.2	2850.8	2836.6	2962.5	3173.4	57.5°
60°	604.6	1358.0	2476.7	3265.6	3590.1	3577.7	3313.5	3143.3	3122.0	3239.0	3439.4	60°
62.5°	597.5	1336.7	2508.6	3207.1	3581.2	3684.0	3540.4	3419.9	3347.2	3444.7	3639.7	62.5°
65°	570.9	1225.1	2407.6	3005.0	3451.8	3620.2	3632.6	3604.3	3473.1	3480.2	3618.4	65°
67.5°	498.2	1030.0	2097.3	2685.9	3198.3	3398.6	3607.8	3598.9	3432.3	3285.1	3313.5	67.5°
70°	413.1	808.4	1710.8	2287.0	2838.4	3010.3	3343.6	3411.0	3173.4	2898.7	2769.2	70°
72.5°	347.5	604.6	1315.5	1771.1	2274.6	2474.9	2969.6	3063.5	2739.1	2352.6	2152.3	72.5°
75°	289.0	427.3	925.4	1219.7	1569.0	1833.2	2591.9	2600.8	2223.2	1850.9	1634.6	75°
77.5°	214.5	290.8	670.1	852.8	1077.9	1304.8	2095.5	2118.6	1764.0	1404.1	1218.0	77.5°
80°	143.6	179.1	427.3	595.7	725.1	874.0	1537.1	1439.6	1164.8	973.3	925.4	80°
82.5°	86.9	104.6	246.4	416.6	457.4	544.3	966.2	902.4	767.7	702.1	719.8	82.5°
85°	47.9	65.6	150.7	273.0	212.7	297.8	528.3	515.9	484.0	423.7	368.8	85°
87.5°	12.4	14.2	33.7	12.4	5.3	16.0	102.8	67.4	67.4	39.0	14.2	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: P228626  
 NUMBER: ISS-AF-1200-LED-E1-SLR-8030

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

305°	310°	315°	325°	335°	340°	342.5°	345°	347.5°	350°	352.5°	355°
1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	0° 1239.2
1439.6	1444.9	1443.1	1430.7	1398.8	1386.4	1381.1	1366.9	1350.9	1350.9	1336.7	2.5° 1333.2
1613.3	1622.2	1611.5	1581.4	1499.9	1460.8	1437.8	1409.4	1386.4	1365.1	1343.8	5° 1313.7
1735.6	1742.7	1725.0	1655.9	1510.5	1444.9	1409.4	1375.8	1347.4	1310.2	1276.5	7.5° 1246.3
1758.7	1774.6	1755.1	1655.9	1487.4	1405.9	1366.9	1329.7	1288.9	1249.9	1202.0	10° 1164.8
1693.1	1726.8	1712.6	1639.9	1476.8	1389.9	1343.8	1299.5	1249.9	1209.1	1154.1	12.5° 1118.7
1592.0	1595.6	1604.5	1602.7	1457.3	1372.2	1326.1	1280.0	1235.7	1196.7	1148.8	15° 1104.5
1480.4	1476.8	1487.4	1521.1	1452.0	1384.6	1354.5	1310.2	1278.2	1233.9	1196.7	17.5° 1147.1
1379.3	1374.0	1384.6	1418.3	1430.7	1414.8	1402.3	1375.8	1350.9	1322.6	1292.4	20° 1244.6
1315.5	1297.7	1296.0	1345.6	1441.3	1483.9	1492.8	1489.2	1487.4	1466.2	1444.9	22.5° 1389.9
1280.0	1260.5	1269.4	1326.1	1485.7	1565.4	1606.2	1620.4	1639.9	1639.9	1639.9	25° 1586.7
1269.4	1248.1	1260.5	1324.3	1531.8	1664.7	1723.2	1758.7	1795.9	1811.9	1822.5	27.5° 1788.8
1276.5	1255.2	1260.5	1336.7	1554.8	1687.8	1756.9	1808.3	1866.8	1905.8	1932.4	30° 1905.8
1317.2	1280.0	1276.5	1374.0	1597.4	1739.2	1811.9	1870.4	1936.0	1980.3	2028.2	32.5° 2024.6
1372.2	1319.0	1311.9	1434.3	1652.3	1804.8	1877.5	1928.9	1996.3	2056.5	2125.7	35° 2150.5
1464.4	1398.8	1388.2	1535.3	1726.8	1859.7	1932.4	1999.8	2072.5	2150.5	2239.1	37.5° 2297.6
1588.5	1522.9	1522.9	1664.7	1827.8	1936.0	2015.8	2086.7	2166.5	2271.1	2379.2	40° 2473.2
1728.6	1686.0	1693.1	1820.7	1943.1	2031.7	2107.9	2184.2	2267.5	2372.1	2498.0	42.5° 2618.5
1914.7	1891.7	1927.1	2017.5	2060.1	2120.4	2187.7	2255.1	2345.5	2453.7	2597.3	45° 2724.9
2132.8	2152.3	2201.9	2230.3	2178.9	2210.8	2264.0	2326.0	2432.4	2542.3	2684.1	47.5° 2822.4
2405.8	2457.2	2505.1	2498.0	2326.0	2315.4	2365.0	2412.9	2519.3	2645.1	2795.8	50° 2944.7
2719.6	2787.0	2820.6	2781.6	2490.9	2428.8	2469.6	2535.2	2652.2	2795.8	2964.2	52.5° 3109.6
3038.7	3120.3	3109.6	3065.3	2669.9	2586.6	2611.4	2689.5	2833.1	2996.2	3208.9	55° 3352.5
3327.7	3391.5	3419.9	3324.1	2888.0	2778.1	2806.5	2888.0	3040.5	3223.1	3441.2	57.5° 3583.0
3556.4	3625.5	3625.5	3531.6	3125.6	2997.9	3045.8	3125.6	3256.8	3437.6	3641.5	60° 3763.8
3723.0	3778.0	3758.5	3668.1	3329.5	3232.0	3269.2	3379.1	3497.9	3632.6	3794.0	62.5° 3856.0
3710.6	3715.9	3694.7	3661.0	3451.8	3441.2	3512.1	3597.2	3696.4	3747.9	3838.3	65° 3861.3
3361.4	3363.1	3405.7	3391.5	3359.6	3490.8	3583.0	3653.9	3740.8	3740.8	3730.1	67.5° 3740.8
2755.0	2783.4	2856.1	2834.8	2997.9	3267.4	3373.8	3481.9	3558.2	3558.2	3467.7	70° 3416.3
2097.3	2115.0	2201.9	2182.4	2404.0	2700.1	2934.1	3114.9	3189.4	3235.5	3120.3	72.5° 2870.3
1526.4	1524.7	1561.9	1533.5	1813.7	2143.4	2384.5	2609.7	2732.0	2771.0	2561.8	75° 2104.4
1175.4	1143.5	1136.4	1140.0	1285.3	1558.4	1749.8	1893.4	1909.4	1914.7	1632.8	77.5° 1274.7
948.5	948.5	937.9	898.8	787.2	911.3	1008.8	1122.2	1163.0	1221.5	978.6	80° 718.0
757.0	726.9	673.7	597.5	505.3	539.0	585.0	627.6	696.7	721.6	595.7	82.5° 407.8
377.6	367.0	320.9	265.9	221.6	294.3	328.0	331.5	331.5	306.7	250.0	85° 166.7
1.8	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°
1239.2	1239.2
1311.9	1315.5
1283.6	1272.9
1194.9	1179.0
1099.2	1086.8
1044.2	1028.3
1033.6	1015.9
1070.8	1049.5
1154.1	1129.3
1287.1	1257.0
1469.7	1439.6
1648.8	1609.8
1776.4	1737.4
1900.5	1854.4
2024.6	1978.5
2191.3	2150.5
2375.7	2317.1
2528.1	2473.2
2648.7	2591.9
2763.9	2707.2
2895.1	2856.1
3091.9	3058.2
3391.5	3343.6
3611.3	3590.1
3724.8	3698.2
3760.3	3715.9
3714.2	3646.8
3568.8	3490.8
3217.8	3114.9
2565.3	2496.2
1730.3	1689.5
994.6	941.4
570.9	553.1
320.9	338.6
83.3	92.2
0.0	0.0
0.0	0.0

(END OF REPORT)