

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: P228751

Luminaire Tested: **ISS-AF-350-LED-E1-RW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228751
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29765)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-AF-350-LED-E1-RW-8030
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-RECTANGULAR WIDE TYPE I
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1942 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G1

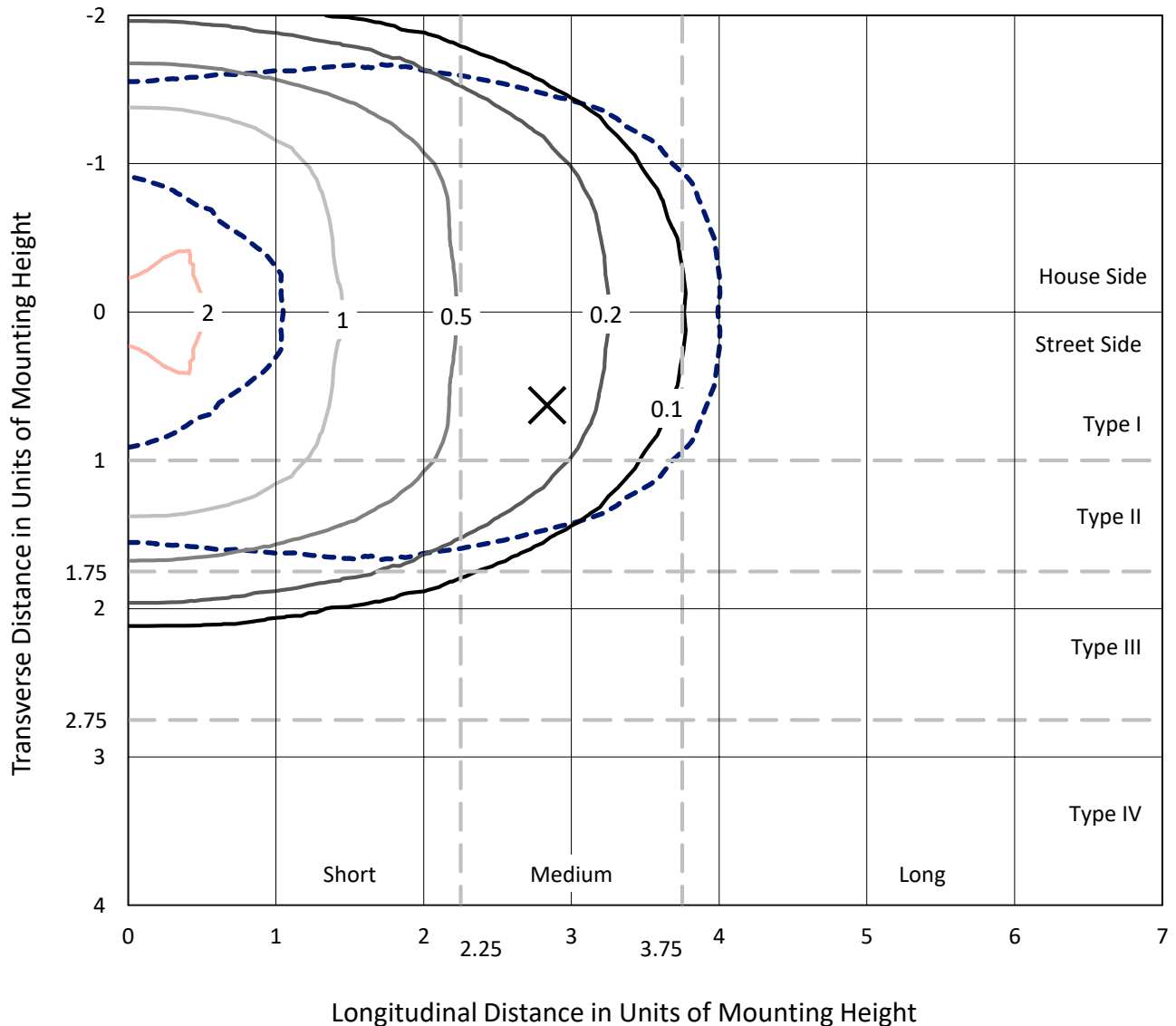
Input Watts (W): 20.09
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

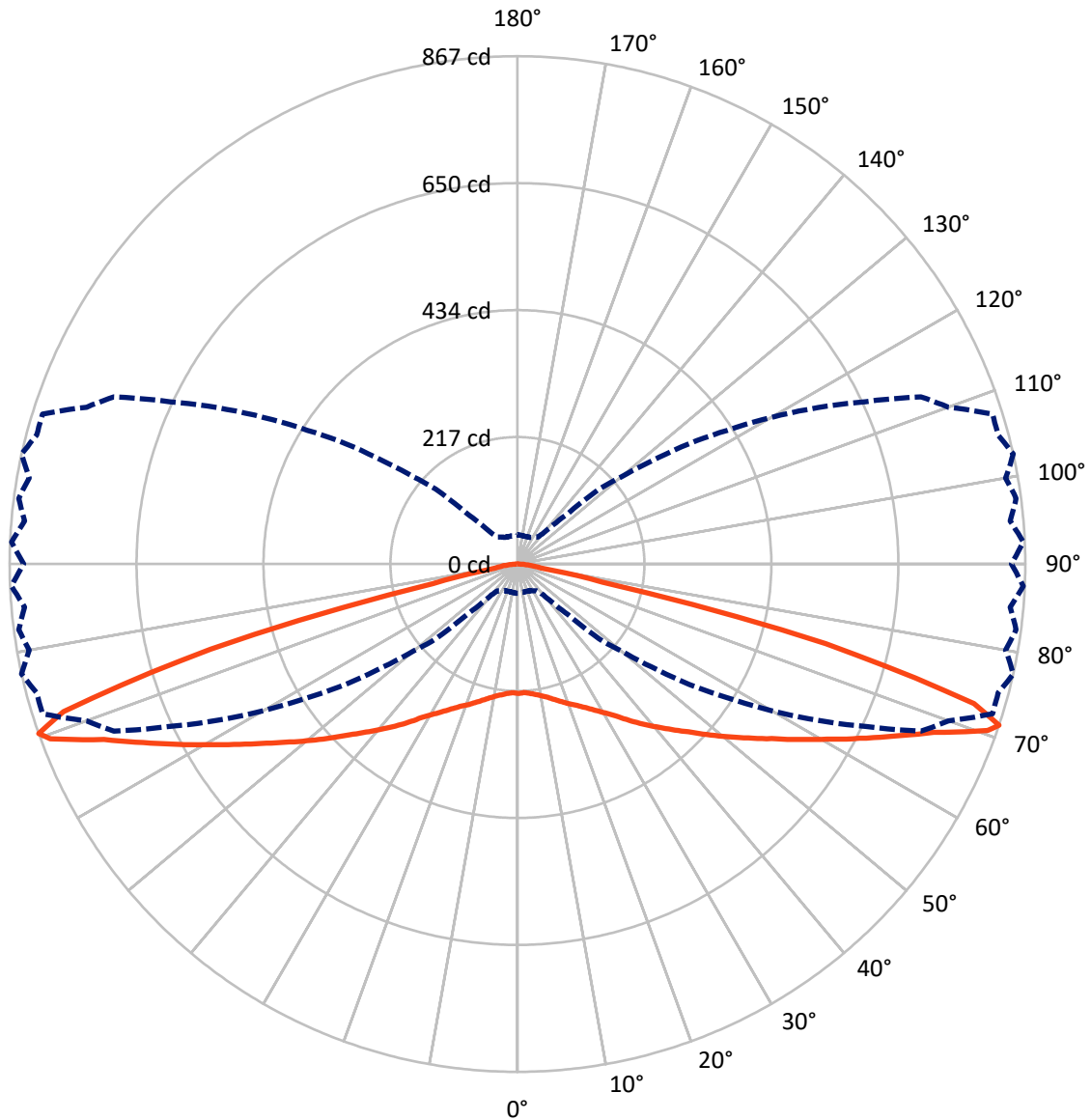
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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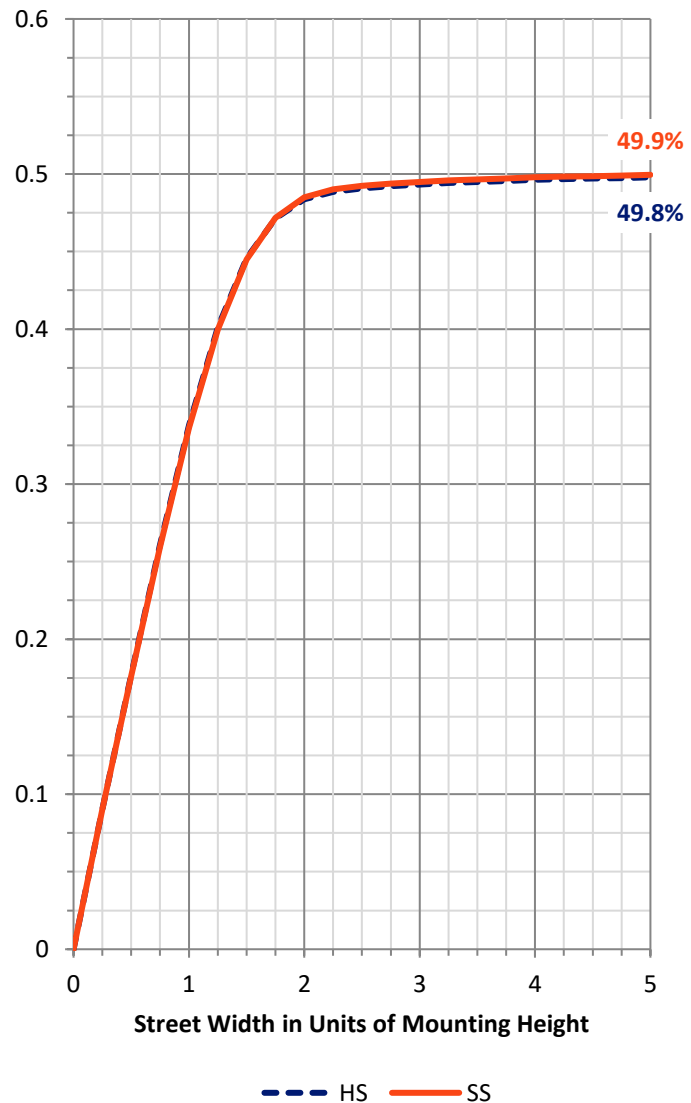
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	971.0	0.0	971.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	971.0	0.0	971.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	1942.0	0.0	1942.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.4	1.1
10°-20°	66.8	3.4
20°-30°	124.9	6.4
30°-40°	217.4	11.2
40°-50°	354.8	18.3
50°-60°	489.6	25.2
60°-70°	464.4	23.9
70°-80°	191.2	9.8
80°-90°	11.5	0.6
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°	1942.0	100.0
0°-180°	1942.0	100.0



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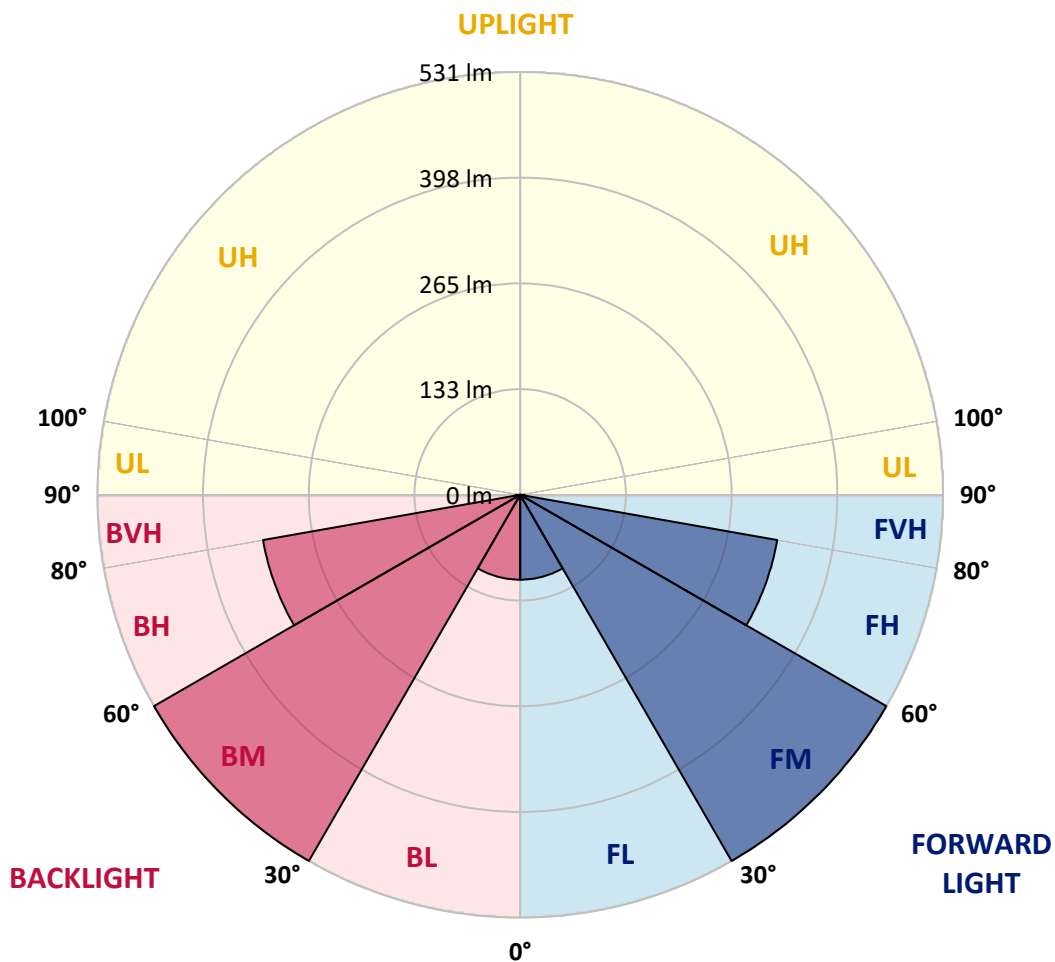
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	106.5	5.5			
FM	(30°-60°)	530.9	27.3			
FH	(60°-80°)	327.8	16.9			G0/660
FVH	(80°-90°)	5.8	0.3			G0/10
BL	(0°-30°)	106.5	5.5	B0/110		
BM	(30°-60°)	530.9	27.3	B1/1000		
BH	(60°-80°)	327.8	16.9	B1/500		G1/500
BVH	(80°-90°)	5.8	0.3			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	221.1	221.1	221.1	221.1	221.1	221.1	221.1	221.1	221.1	221.1	221.1
2.5°	220.5	219.8	220.5	220.5	221.1	221.1	221.1	221.1	220.5	221.8	221.8
5°	220.5	220.5	221.1	221.1	222.4	223.7	221.8	222.4	223.1	222.4	223.7
7.5°	220.5	220.5	220.5	221.8	223.7	225.0	223.7	224.3	225.6	225.6	226.9
10°	218.6	217.9	219.2	221.8	225.0	226.9	226.3	228.8	228.2	228.8	230.1
12.5°	215.3	215.3	217.9	221.8	227.6	228.8	229.5	230.8	232.7	232.1	234.0
15°	216.0	216.6	219.2	224.3	231.4	232.7	233.3	233.3	236.6	235.3	239.1
17.5°	220.5	221.1	223.7	228.8	237.2	237.2	237.8	239.1	243.6	241.1	246.2
20°	227.6	228.2	230.8	236.6	244.3	243.6	244.9	246.2	252.0	249.4	254.6
22.5°	235.9	237.2	240.4	246.8	255.2	251.3	253.9	256.5	262.3	257.8	264.8
25°	247.5	249.4	252.6	259.7	268.7	264.2	266.8	268.7	275.1	268.7	275.8
27.5°	264.2	265.5	268.1	275.8	283.5	280.3	281.6	282.8	290.6	283.5	291.2
30°	284.1	286.1	288.6	295.7	303.4	298.3	300.8	302.1	308.6	301.5	307.9
32.5°	309.2	311.1	314.3	320.8	327.2	319.5	320.1	322.1	328.5	321.4	328.5
35°	338.8	340.1	344.6	352.3	356.8	344.6	345.2	345.2	353.6	343.9	351.6
37.5°	369.6	370.9	376.1	383.8	388.9	375.4	375.4	376.1	383.8	372.8	379.9
40°	401.8	405.6	411.4	419.1	423.0	407.5	408.8	408.2	417.2	404.3	411.4
42.5°	433.9	437.1	445.5	454.5	459.0	443.5	444.2	442.3	451.3	437.8	443.5
45°	461.5	464.1	474.4	487.3	494.3	478.3	478.3	478.3	487.3	470.5	477.6
47.5°	484.0	486.0	496.9	515.5	527.1	511.0	512.3	509.8	523.3	502.7	512.3
50°	500.1	500.8	514.9	536.1	556.0	541.3	543.2	544.5	557.3	539.3	547.7
52.5°	505.3	506.5	522.6	548.3	577.3	567.6	574.7	577.3	588.8	569.5	581.1
55°	487.3	490.5	514.9	552.8	592.0	588.8	597.2	602.3	617.1	601.0	613.3
57.5°	426.8	430.7	464.8	527.1	595.3	600.4	612.0	620.3	641.5	631.9	645.4
60°	340.7	343.9	378.6	453.8	554.8	586.3	612.6	636.4	658.3	660.2	677.5
62.5°	234.0	238.5	271.9	343.9	466.7	508.5	546.4	585.6	622.3	666.6	689.1
65°	114.4	117.0	145.3	214.7	342.6	396.0	440.3	495.6	529.7	593.3	630.0
67.5°	63.0	63.0	67.5	89.4	183.2	235.9	283.5	352.9	387.6	466.0	513.0
70°	52.7	52.7	51.4	54.6	69.4	82.3	106.7	146.6	194.8	273.8	316.3
71°	50.1	49.5	48.9	50.1	55.9	58.5	68.8	90.0	122.1	189.0	230.8
72.5°	46.9	45.6	43.7	44.4	47.6	47.6	49.5	52.7	64.9	88.7	118.9
75°	40.5	39.2	37.3	37.3	37.9	38.6	39.2	40.5	41.1	42.4	47.6
77.5°	33.4	32.1	30.2	30.2	29.6	30.2	31.5	32.1	30.9	33.4	34.1
80°	25.7	23.8	23.1	23.1	22.5	21.9	21.9	21.9	22.5	23.8	24.4
82.5°	16.1	14.8	15.4	14.8	14.1	14.1	14.1	14.1	14.8	14.8	16.1
85°	7.7	7.7	8.4	7.7	6.4	6.4	5.8	5.1	5.8	5.1	6.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
90°	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):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°
0°	221.1	221.1	221.1	221.1	221.1	221.1	221.1	221.1	221.1	221.1	221.1
2.5°	219.8	221.1	220.5	221.1	219.8	221.1	219.2	221.1	220.5	221.1	219.8
5°	221.8	223.7	221.8	224.3	221.8	224.3	221.8	224.3	222.4	224.3	221.8
7.5°	223.7	227.6	225.0	228.2	225.0	228.8	225.0	228.8	226.3	229.5	225.0
10°	227.6	232.1	228.2	232.1	228.2	232.7	228.2	233.3	229.5	234.6	228.8
12.5°	230.8	235.9	232.1	237.2	231.4	238.5	232.7	240.4	234.0	241.7	234.0
15°	235.3	241.7	237.8	243.6	237.8	245.6	238.5	247.5	240.4	248.8	240.4
17.5°	241.7	248.8	243.6	250.7	244.3	252.6	244.9	254.6	247.5	255.8	247.5
20°	250.7	256.5	251.3	259.1	252.0	259.7	253.3	261.0	255.2	262.9	255.2
22.5°	261.0	266.1	262.3	266.8	260.3	266.8	260.3	266.8	262.3	268.7	262.3
25°	272.6	276.4	271.9	276.4	270.6	275.8	270.0	275.1	270.6	276.4	271.9
27.5°	288.0	289.9	284.8	288.6	281.6	286.7	280.3	285.4	280.9	286.1	282.8
30°	304.7	306.6	301.5	304.1	296.3	299.6	292.5	297.0	293.1	297.0	295.1
32.5°	323.3	325.9	320.1	321.4	315.0	315.6	309.8	311.8	308.6	309.8	309.2
35°	344.6	347.8	341.3	343.3	336.2	336.2	331.1	330.4	329.1	327.8	327.8
37.5°	371.6	372.8	367.7	367.7	359.3	359.3	352.9	352.9	350.3	347.8	346.5
40°	401.1	401.8	393.4	392.8	384.4	384.4	377.3	375.4	370.9	367.7	365.8
42.5°	432.6	432.0	419.8	421.0	408.8	409.5	400.5	398.6	394.1	390.2	386.3
45°	464.8	462.2	450.0	449.3	435.2	435.8	424.9	423.6	417.2	413.3	408.8
47.5°	497.5	496.3	482.8	479.5	464.8	464.1	450.0	450.0	443.5	439.7	435.2
50°	531.6	531.0	515.5	513.6	498.2	495.6	478.9	478.9	471.2	469.9	463.5
52.5°	568.9	566.3	549.6	549.0	534.2	532.3	514.3	513.0	501.4	500.8	493.7
55°	605.5	601.0	590.1	585.0	570.2	569.5	553.5	550.3	535.5	535.5	526.5
57.5°	639.0	635.1	626.1	621.6	607.5	605.5	588.2	588.2	575.3	574.7	565.0
60°	673.7	675.0	665.3	663.4	649.9	649.3	631.9	631.9	619.0	618.4	607.5
62.5°	703.2	716.1	712.2	713.5	702.0	700.0	682.7	681.4	666.6	664.7	655.7
65°	674.3	719.3	748.2	767.5	766.2	765.6	748.9	746.3	727.7	722.5	707.7
67.5°	566.3	624.8	677.5	735.4	777.8	810.0	819.6	815.7	799.7	784.9	766.9
70°	379.3	446.8	513.6	585.6	658.3	729.0	801.6	833.1	866.5	855.0	851.7
71°	288.6	358.1	424.9	500.8	577.9	656.3	745.7	783.0	850.5	849.8	867.2
72.5°	162.6	224.3	295.7	361.9	434.5	515.5	607.5	648.6	745.7	765.0	815.1
75°	52.1	71.4	94.5	149.1	194.1	268.1	336.2	377.3	441.6	473.8	543.8
77.5°	34.7	38.6	39.9	46.3	52.1	73.9	100.3	122.8	135.0	141.4	148.5
80°	25.1	27.0	28.3	31.5	32.1	36.0	36.0	39.9	39.2	41.8	39.9
82.5°	16.1	18.0	18.6	19.9	20.6	23.1	24.4	27.0	27.0	28.3	27.6
85°	7.7	9.0	9.0	10.3	10.3	12.2	12.2	14.1	14.1	16.1	15.4
87.5°	0.6	0.6	0.6	1.3	1.3	1.3	1.9	2.6	2.6	2.6	2.6
90°	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):

	80°	82.5°	85°	87.5°	90°
0°	221.1	221.1	221.1	221.1	221.1
2.5°	221.8	221.1	221.8	220.5	221.8
5°	225.0	222.4	225.6	222.4	225.6
7.5°	230.1	226.9	230.8	225.6	230.1
10°	234.6	230.1	235.3	230.1	234.6
12.5°	242.3	235.3	243.6	235.3	243.6
15°	250.1	241.7	252.0	243.0	251.3
17.5°	257.1	249.4	259.1	250.1	258.4
20°	263.6	256.5	264.8	255.8	264.8
22.5°	270.0	265.5	271.9	265.5	271.9
25°	278.3	275.1	279.6	275.1	279.6
27.5°	288.0	286.7	289.3	286.1	289.9
30°	298.9	299.6	300.2	299.6	300.8
32.5°	312.4	315.6	314.3	314.3	314.3
35°	331.1	336.8	333.0	334.3	333.6
37.5°	348.4	356.8	351.6	353.6	352.3
40°	367.7	373.5	372.2	372.2	370.9
42.5°	388.9	396.0	394.1	394.7	393.4
45°	412.0	418.5	415.9	415.3	415.9
47.5°	438.4	445.5	442.3	441.6	442.3
50°	466.0	474.4	471.8	470.5	471.8
52.5°	496.3	506.5	505.3	504.0	505.9
55°	531.6	541.3	540.0	541.3	541.9
57.5°	567.0	577.9	575.3	578.5	579.8
60°	611.3	617.8	618.4	619.0	619.7
62.5°	656.3	658.9	660.8	662.8	663.4
65°	708.4	709.0	710.3	708.4	710.3
67.5°	758.5	754.0	753.4	755.3	756.6
70°	836.3	836.3	829.9	838.9	831.2
71°	846.6	858.8	844.7	864.6	843.4
72.5°	796.5	819.0	802.9	820.9	799.7
75°	554.1	606.2	605.5	631.3	610.7
77.5°	153.6	144.0	153.6	132.4	126.6
80°	41.8	37.9	41.1	34.7	39.2
82.5°	27.6	23.8	23.1	18.6	19.9
85°	16.1	12.2	12.2	9.6	10.3
87.5°	2.6	0.6	2.6	1.3	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)