

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: P194529

Luminaire Tested: **GLEON-AF-01-LED-E1-SL4-7060-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194529
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-SL4-7060-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3333 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 34
Input Voltage (V): NR
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

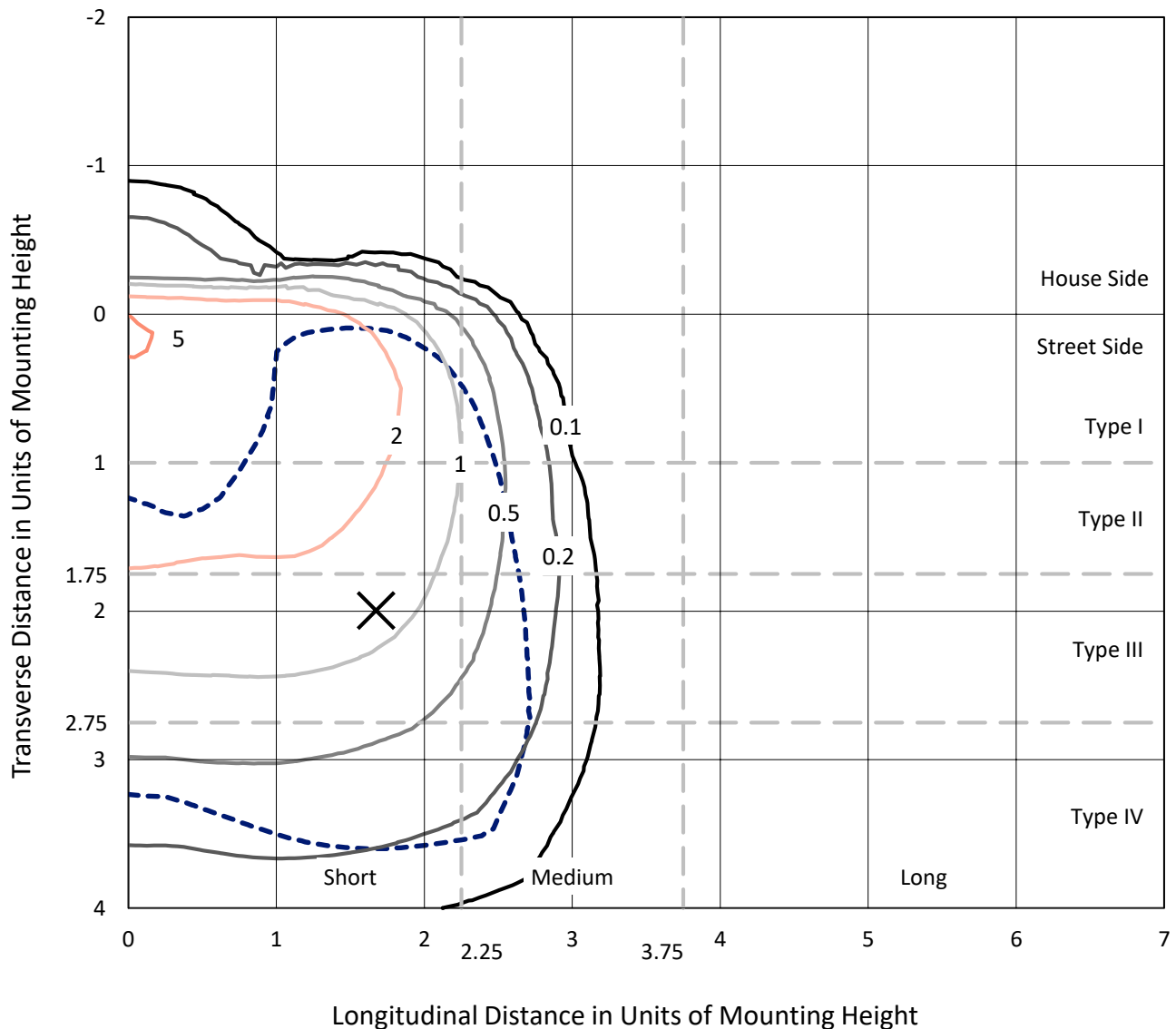


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

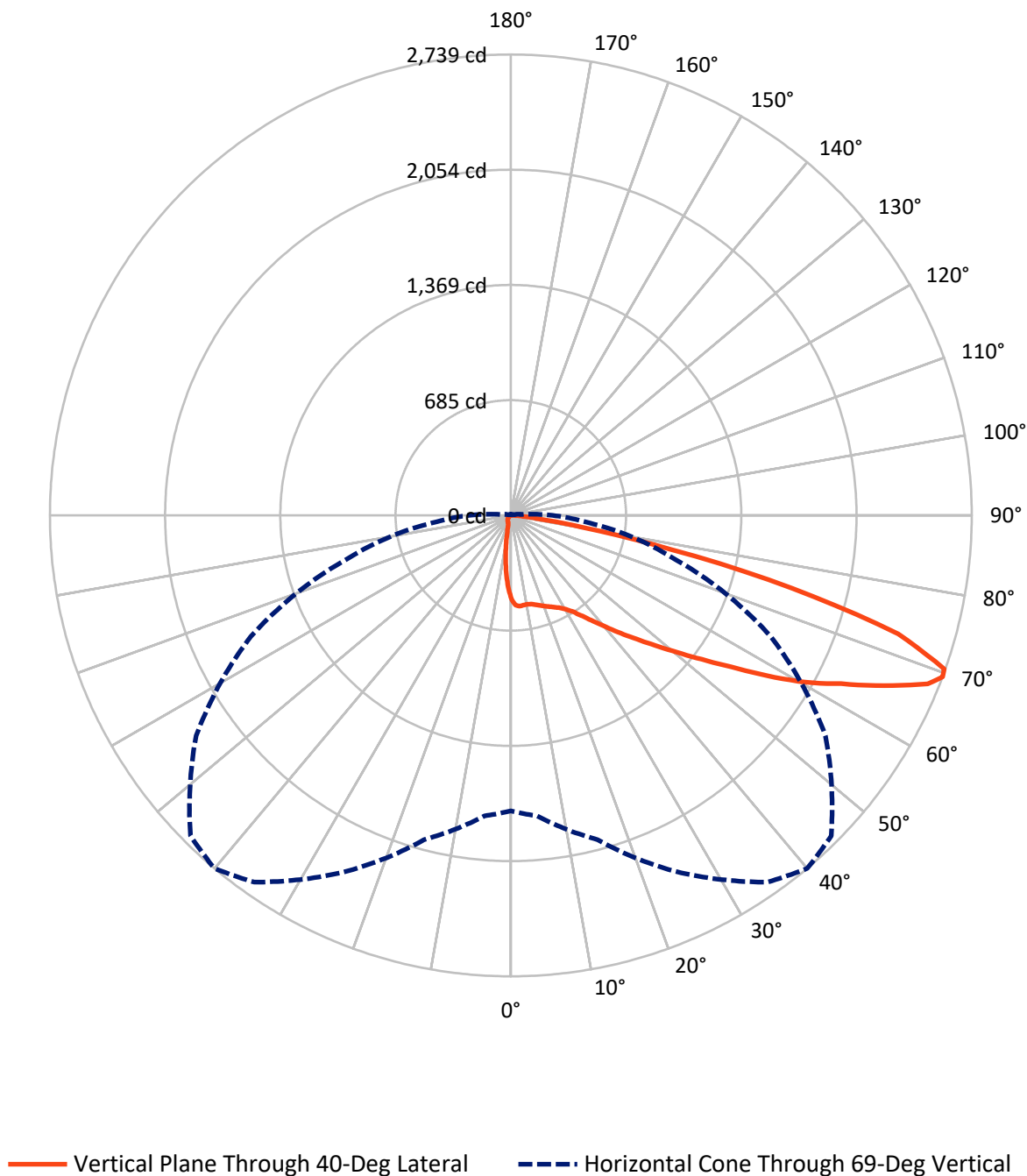


Based on 10 foot mounting height. Maximum calculated value = 5.4 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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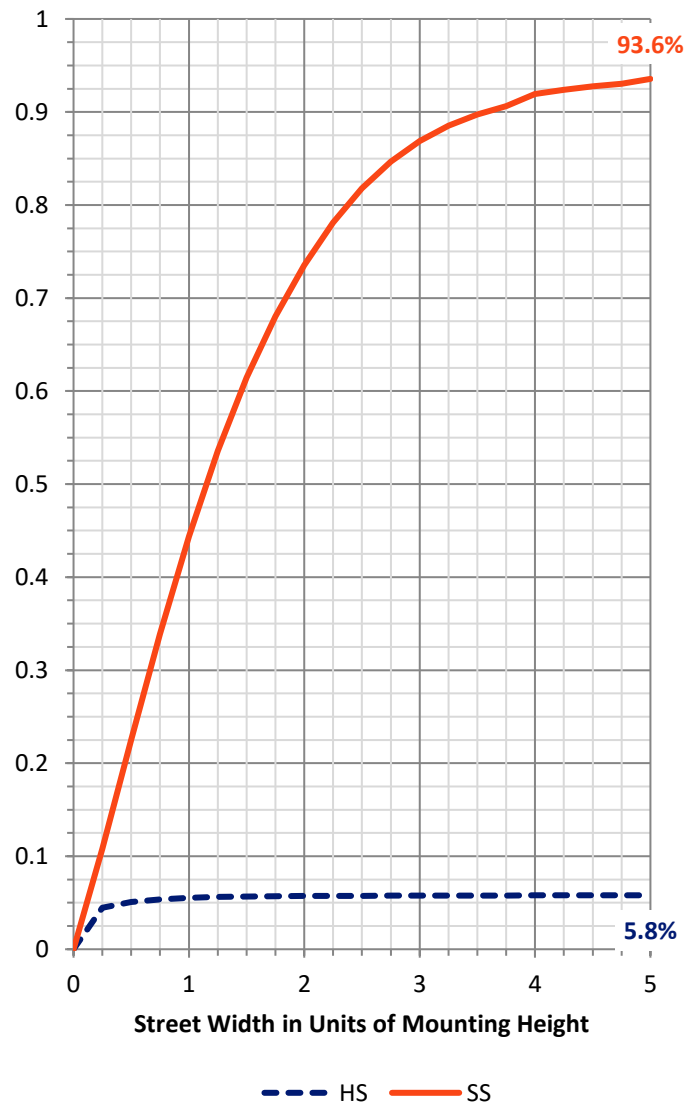
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	195.0	0.0	195.0
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	3138.0	0.0	3138.0
	% Fixture	94.1	0.0	94.1
Total	Lumens	3333.0	0.0	3333.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.4	1.2
10°-20°	99.3	3.0
20°-30°	167.2	5.0
30°-40°	273.8	8.2
40°-50°	474.0	14.2
50°-60°	746.6	22.4
60°-70°	975.1	29.3
70°-80°	502.2	15.1
80°-90°	54.3	1.6
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°	3333.0	100.0
0°-180°	3333.0	100.0

Coefficient of Utilization



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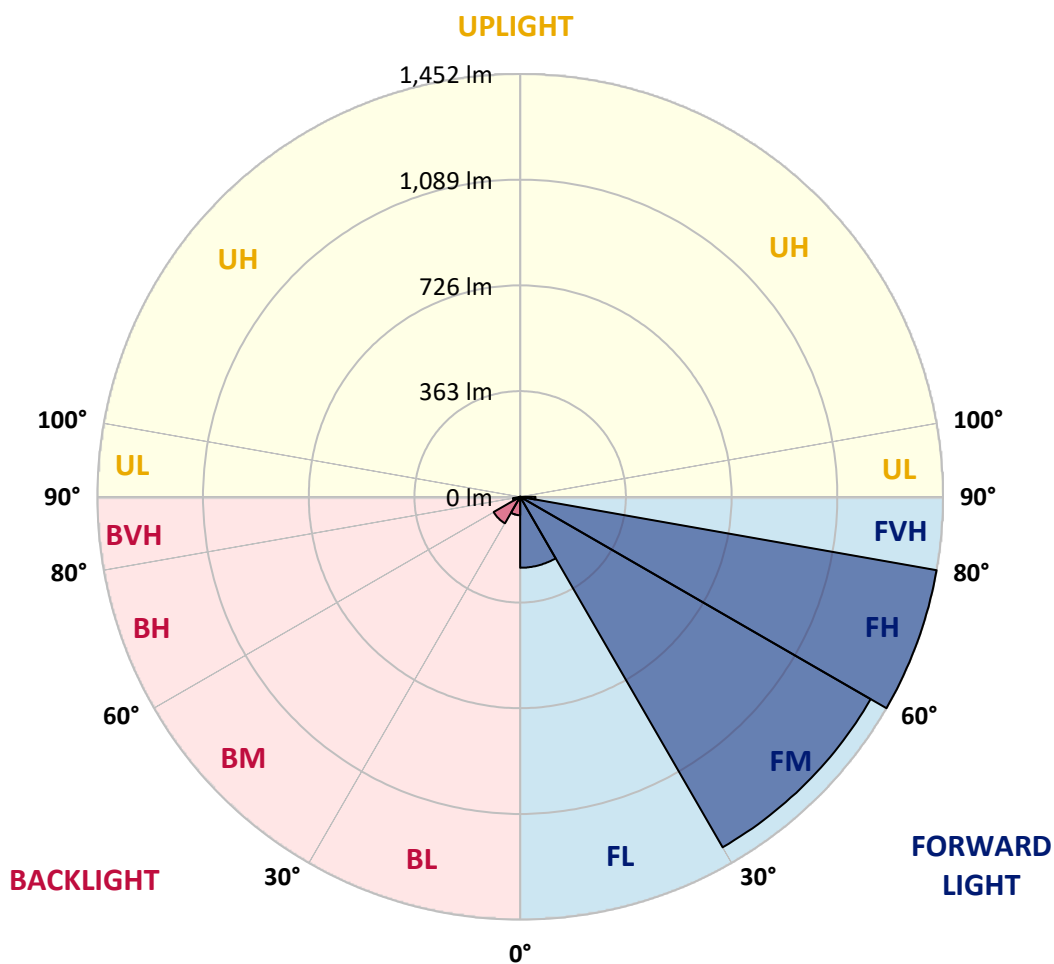
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	243.7	7.3			
FM	(30°-60°)	1389.7	41.7			
FH	(60°-80°)	1452.0	43.6			G1/1800
FVH	(80°-90°)	52.6	1.6			G1/100
BL	(0°-30°)	63.2	1.9	B0/110		
BM	(30°-60°)	104.8	3.1	B0/220		
BH	(60°-80°)	25.3	0.8	B0/110		G0/110
BVH	(80°-90°)	1.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0
2.5°	546.8	543.8	542.0	539.6	536.7	534.1	533.1	525.7	518.8	509.3	498.4
5°	556.9	555.9	552.7	549.5	546.0	542.0	539.8	531.1	521.2	507.3	488.2
7.5°	557.9	556.7	552.7	548.4	543.4	538.6	534.9	526.1	517.0	502.9	479.7
10°	556.3	554.9	551.9	547.2	541.0	536.5	532.7	524.4	516.6	503.9	478.1
12.5°	554.5	553.1	551.7	549.4	544.0	540.8	537.6	529.7	522.8	512.1	483.9
15°	556.3	555.5	557.1	556.1	553.1	550.3	547.2	540.0	533.7	524.8	494.4
17.5°	563.8	563.8	568.8	569.4	566.6	562.6	558.1	550.9	545.6	538.0	506.9
20°	581.5	580.9	587.2	588.4	581.7	575.5	568.8	560.1	555.9	551.1	519.2
22.5°	611.8	609.1	612.8	611.6	598.4	588.8	580.5	569.8	567.6	565.4	532.9
25°	651.3	649.7	652.3	640.6	617.2	604.3	594.4	582.3	582.3	584.5	548.4
27.5°	708.7	702.7	694.0	673.3	638.2	621.8	611.1	598.2	601.5	609.7	568.8
30°	767.4	760.8	740.8	709.1	663.8	646.6	634.1	620.6	628.5	643.4	596.2
32.5°	825.3	818.0	789.6	749.5	700.5	683.3	671.2	656.3	669.6	694.6	636.2
35°	881.5	874.9	842.2	795.0	749.3	735.0	723.9	711.0	728.1	763.0	692.8
37.5°	944.6	937.4	897.5	846.3	808.7	798.3	790.2	777.3	807.1	858.2	771.6
40°	1022.1	1010.0	956.3	905.3	877.3	872.3	866.8	865.0	911.2	982.0	876.5
42.5°	1111.0	1091.2	1017.8	967.4	952.7	956.3	954.9	962.8	1041.6	1136.0	1004.3
45°	1199.9	1174.3	1086.2	1033.6	1035.6	1048.1	1055.8	1087.6	1204.8	1312.6	1141.8
47.5°	1275.3	1250.1	1151.9	1105.2	1129.1	1153.7	1174.7	1234.8	1372.7	1486.4	1248.7
50°	1339.8	1315.9	1221.5	1184.0	1237.6	1277.3	1311.4	1400.5	1553.2	1618.7	1323.7
52.5°	1392.5	1376.7	1293.7	1274.3	1361.6	1419.7	1469.7	1576.4	1713.1	1726.2	1382.0
55°	1443.9	1432.6	1371.3	1381.6	1507.2	1586.4	1649.6	1763.1	1850.8	1815.9	1438.0
57.5°	1503.0	1492.7	1459.8	1517.7	1698.6	1798.2	1867.3	1928.6	1972.0	1907.6	1490.7
60°	1563.3	1557.4	1558.2	1668.9	1918.5	2014.1	2052.2	2068.1	2091.1	1993.9	1493.7
62.5°	1620.9	1632.2	1670.7	1837.1	2129.0	2202.4	2221.6	2237.3	2210.3	2007.5	1380.0
65°	1718.3	1736.7	1828.6	2062.3	2360.5	2439.0	2458.9	2405.1	2229.1	1830.6	1122.5
67.5°	1765.9	1799.6	1963.5	2272.2	2585.1	2672.4	2665.0	2416.0	2000.4	1395.9	720.4
69°	1756.0	1791.9	1994.6	2336.5	2659.7	2738.8	2692.2	2282.5	1704.2	1011.2	442.2
70°	1716.7	1753.0	1978.6	2334.1	2669.2	2731.9	2641.8	2117.7	1440.9	739.4	276.6
72.5°	1433.6	1464.9	1756.6	2109.7	2458.9	2407.9	2210.1	1467.1	702.1	201.4	62.3
75°	882.5	899.9	1260.4	1589.3	1857.2	1726.2	1472.5	729.9	209.3	56.9	34.5
77.5°	466.2	474.2	690.0	936.8	1177.3	974.1	754.7	284.7	96.4	35.7	25.0
80°	275.6	281.5	371.6	428.3	509.5	425.6	301.8	174.8	69.0	22.4	22.2
82.5°	157.7	161.5	269.4	238.1	200.8	171.4	150.2	165.7	41.5	15.1	23.0
85°	57.9	58.7	151.6	181.1	119.4	71.0	74.6	137.3	11.1	9.5	18.1
87.5°	27.0	26.4	78.0	110.9	69.8	45.0	58.1	30.2	4.4	6.2	5.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0
2.5°	492.0	484.7	471.4	457.7	443.8	433.1	422.6	414.2	411.5	406.3	406.7
5°	476.9	463.4	435.7	407.5	378.1	353.9	331.1	312.7	303.7	294.6	294.6
7.5°	463.8	444.2	400.8	354.9	307.5	267.6	231.7	204.7	189.9	178.0	177.8
10°	458.9	432.3	371.6	305.9	239.9	185.5	142.8	115.5	101.4	92.3	91.9
12.5°	461.1	428.1	349.2	260.7	177.8	119.2	82.7	65.1	59.1	56.3	56.3
15°	467.4	426.9	326.8	216.4	125.6	74.6	55.0	50.2	49.8	49.8	49.8
17.5°	475.2	427.3	303.7	173.4	85.5	53.4	47.4	46.8	47.2	47.2	47.2
20°	483.1	427.5	278.9	133.5	60.3	46.4	44.6	44.4	44.8	44.8	45.0
22.5°	492.8	428.5	254.1	99.8	49.8	43.8	42.5	42.5	42.7	42.7	42.5
25°	503.9	430.5	228.4	74.0	45.4	42.1	40.9	40.7	40.9	40.7	40.5
27.5°	517.8	433.3	199.6	57.9	43.4	40.3	39.3	39.3	39.1	38.9	38.7
30°	535.3	436.5	167.2	49.2	41.5	38.7	37.7	37.5	37.3	36.9	36.9
32.5°	561.8	443.4	135.3	44.6	39.3	36.5	35.7	35.7	35.3	34.9	34.7
35°	602.7	457.1	106.7	41.9	36.9	34.1	33.1	33.1	32.7	32.5	32.3
37.5°	659.3	477.9	82.9	39.3	34.5	31.5	30.6	30.4	30.0	29.6	29.4
40°	734.5	503.7	65.3	36.9	32.1	29.0	28.2	27.8	27.0	26.4	26.4
42.5°	828.9	533.1	53.0	34.3	29.4	26.6	26.0	25.4	24.0	23.4	23.2
45°	927.7	559.5	44.8	31.3	26.6	24.2	23.8	22.8	21.0	20.4	20.4
47.5°	998.9	565.6	39.5	28.6	24.0	21.6	21.4	19.6	18.1	17.7	17.5
50°	1043.4	553.5	35.1	25.8	21.6	19.2	18.6	16.5	15.5	15.1	14.9
52.5°	1073.3	531.9	31.5	23.4	19.4	17.1	15.7	14.1	13.3	12.9	12.9
55°	1097.3	501.3	28.0	21.2	17.7	15.3	13.3	12.1	11.3	10.9	10.9
57.5°	1104.1	459.9	24.4	19.4	15.9	13.5	11.3	10.5	9.5	9.3	9.3
60°	1055.1	385.1	21.6	17.3	14.3	11.7	9.9	8.9	7.9	7.7	7.5
62.5°	925.9	298.0	19.0	15.3	12.5	10.1	8.5	7.3	6.5	6.5	6.5
65°	706.3	199.8	16.7	13.3	10.9	8.5	7.3	6.0	5.6	5.6	5.8
67.5°	422.8	108.7	14.3	11.3	9.3	7.1	6.2	5.2	5.0	5.2	5.2
69°	247.8	63.9	12.9	10.1	8.1	6.3	5.4	4.6	5.0	5.2	5.2
70°	153.0	43.1	11.9	9.1	7.3	5.8	5.0	4.4	4.8	5.0	5.0
72.5°	42.7	22.2	9.5	7.1	6.0	4.8	4.0	4.0	4.6	4.8	4.8
75°	27.8	16.5	7.3	5.4	4.6	3.8	3.4	3.8	4.4	4.6	4.6
77.5°	23.0	13.5	6.0	4.4	3.8	3.6	3.2	3.4	4.0	4.2	4.2
80°	21.0	9.5	4.8	4.0	3.4	3.2	3.0	2.8	3.6	3.8	3.8
82.5°	20.0	7.5	4.2	3.6	3.2	2.8	2.6	2.8	3.2	3.4	3.6
85°	12.5	5.0	3.8	3.4	2.8	2.6	2.6	2.6	3.0	3.2	3.2
87.5°	4.6	4.0	3.4	2.8	2.4	2.4	2.4	2.4	2.6	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)