

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: P192929

Luminaire Tested: **GLEON-AF-01-LED-E1-SL4-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192929
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-SL4-7030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 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: 3223.2 lumens
Efficiency: N/A
Efficacy: 94.8 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

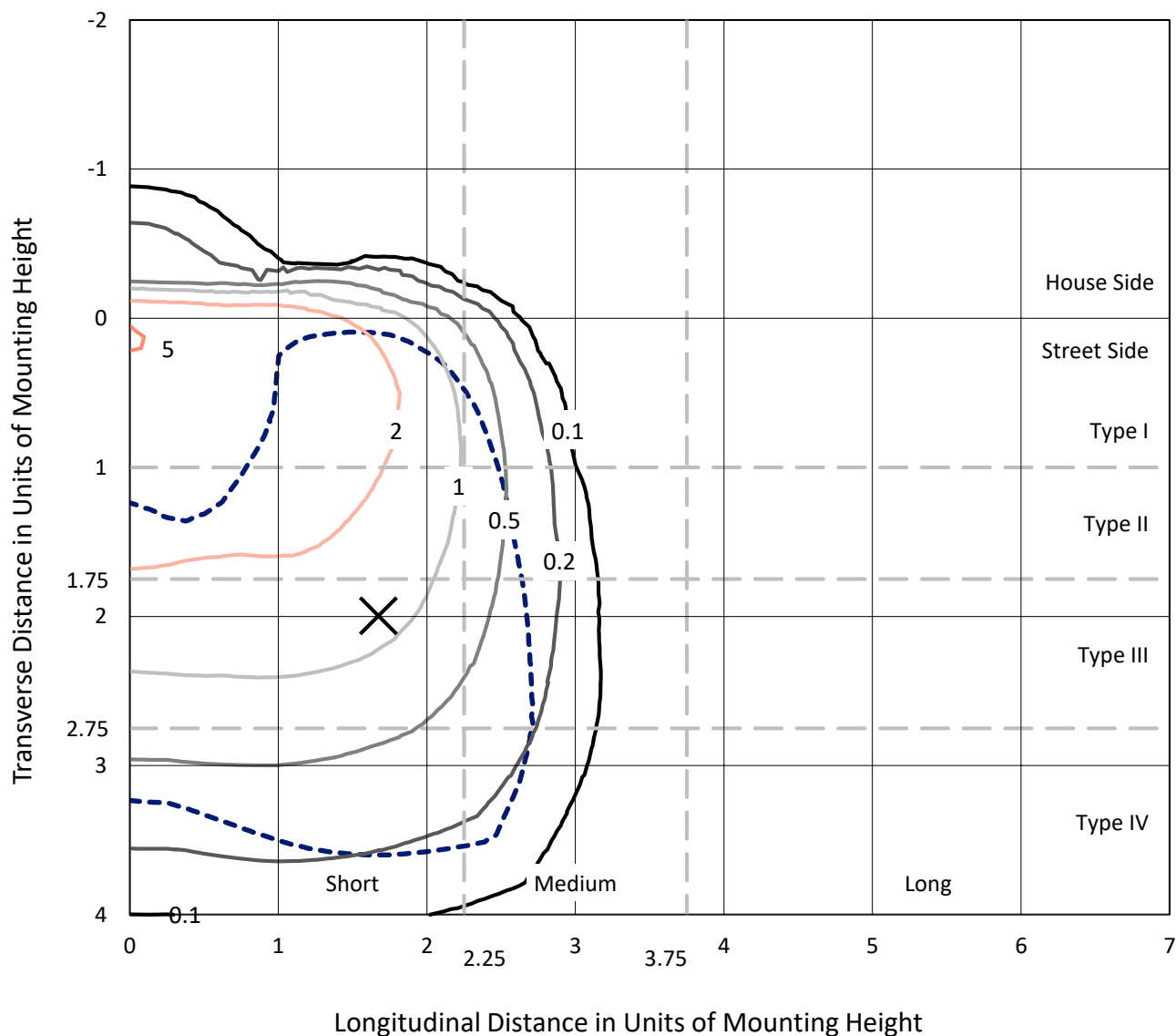


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

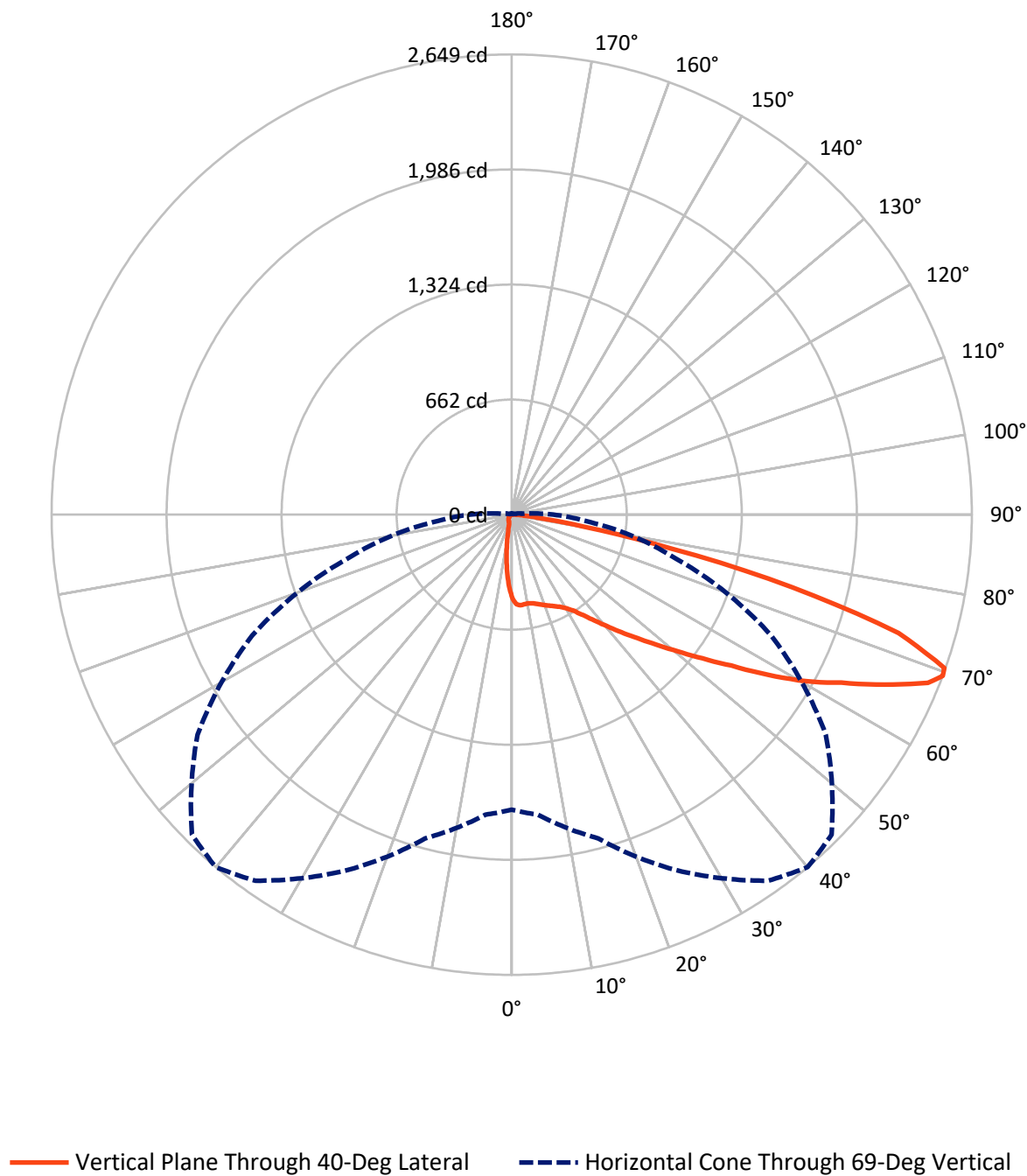


Based on 10 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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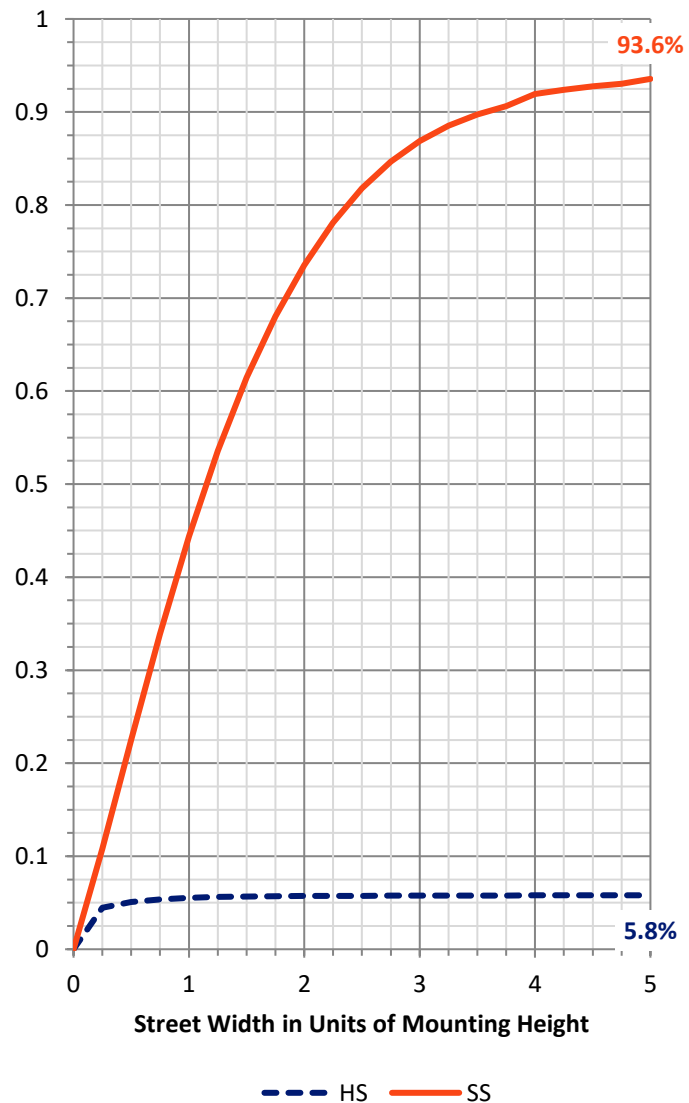
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	188.6	0.0	188.6
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	3034.6	0.0	3034.6
	% Fixture	94.1	0.0	94.1
Total	Lumens	3223.2	0.0	3223.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.0	1.2
10°-20°	96.0	3.0
20°-30°	161.7	5.0
30°-40°	264.8	8.2
40°-50°	458.4	14.2
50°-60°	722.0	22.4
60°-70°	943.0	29.3
70°-80°	485.7	15.1
80°-90°	52.5	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°	3223.2	100.0
0°-180°	3223.2	100.0



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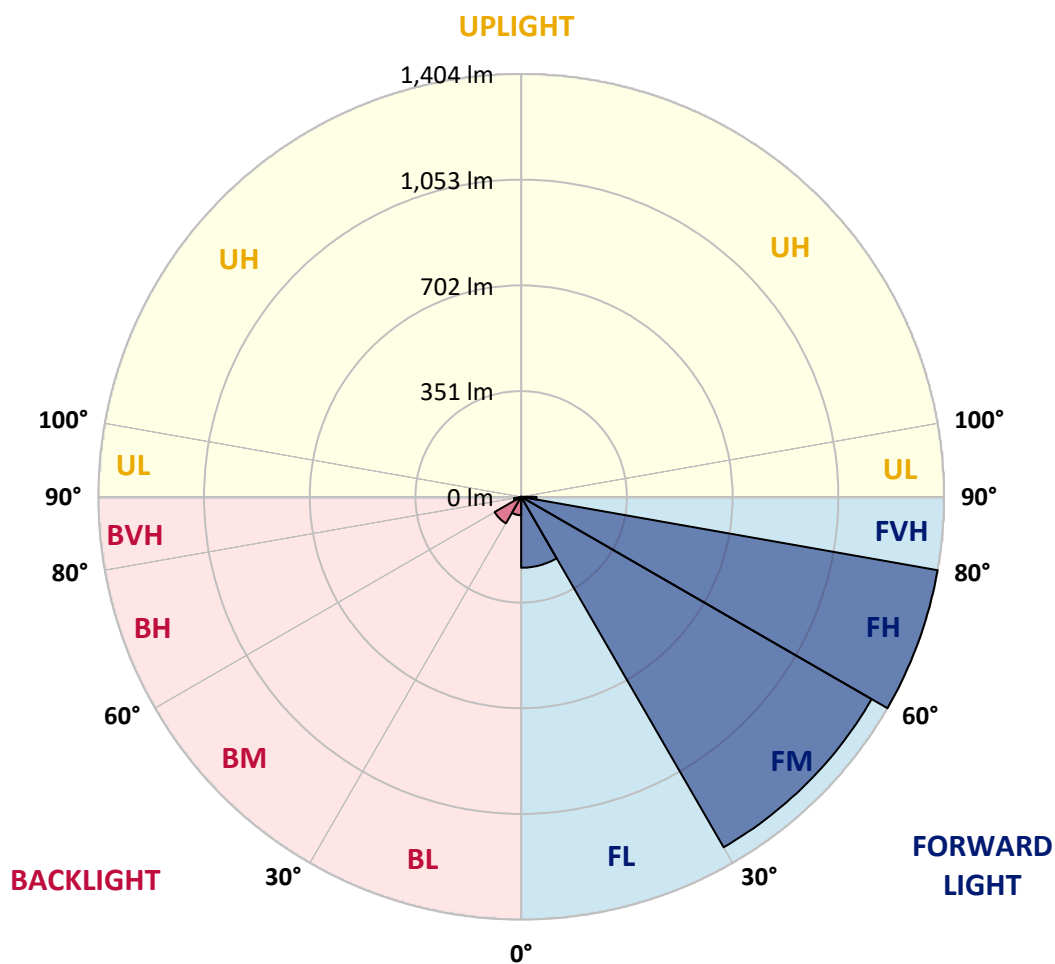
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	235.7	7.3			
FM	(30°-60°)	1343.9	41.7			
FH	(60°-80°)	1404.1	43.6			G1/1800
FVH	(80°-90°)	50.9	1.6			G1/100
BL	(0°-30°)	61.1	1.9	B0/110		
BM	(30°-60°)	101.4	3.1	B0/220		
BH	(60°-80°)	24.5	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°	481.5	481.5	481.5	481.5	481.5	481.5	481.5	481.5	481.5	481.5	481.5
2.5°	528.7	525.9	524.1	521.8	519.0	516.5	515.4	508.4	501.7	492.5	482.0
5°	538.5	537.5	534.5	531.4	527.9	524.1	522.0	513.6	504.0	490.6	472.1
7.5°	539.5	538.3	534.5	530.2	525.5	520.8	517.3	508.8	500.0	486.3	464.0
10°	538.0	536.6	533.7	529.2	523.2	518.8	515.1	507.1	499.7	487.3	462.3
12.5°	536.3	535.0	533.5	531.2	526.1	523.1	520.0	512.2	505.6	495.2	467.9
15°	538.0	537.2	538.7	537.8	535.0	532.2	529.2	522.3	516.1	507.5	478.1
17.5°	545.2	545.2	550.0	550.6	547.9	544.1	539.7	532.7	527.6	520.3	490.1
20°	562.3	561.7	567.9	569.0	562.4	556.5	550.0	541.6	537.5	532.9	502.0
22.5°	591.6	589.0	592.6	591.5	578.6	569.5	561.4	551.0	548.9	546.8	515.3
25°	629.9	628.4	630.9	619.5	596.9	584.4	574.8	563.1	563.1	565.2	530.2
27.5°	685.3	679.6	671.1	651.1	617.2	601.3	590.9	578.4	581.7	589.6	550.0
30°	742.1	735.8	716.4	685.7	641.9	625.3	613.2	600.2	607.8	622.2	576.6
32.5°	798.1	791.0	763.6	724.8	677.4	660.8	649.0	634.7	647.5	671.7	615.2
35°	852.4	846.1	814.4	768.7	724.6	710.8	700.1	687.6	704.0	737.8	670.0
37.5°	913.4	906.6	867.9	818.5	782.0	772.0	764.2	751.7	780.4	830.0	746.1
40°	988.5	976.8	924.8	875.3	848.4	843.6	838.2	836.5	881.1	949.7	847.7
42.5°	1074.3	1055.2	984.2	935.5	921.3	924.8	923.4	931.1	1007.3	1098.6	971.2
45°	1160.4	1135.6	1050.4	999.6	1001.5	1013.6	1021.0	1051.7	1165.1	1269.3	1104.2
47.5°	1233.2	1208.9	1113.9	1068.8	1091.8	1115.6	1136.0	1194.1	1327.4	1437.5	1207.6
50°	1295.6	1272.6	1181.2	1145.0	1196.8	1235.1	1268.2	1354.3	1502.0	1565.3	1280.1
52.5°	1346.6	1331.4	1251.1	1232.3	1316.7	1373.0	1421.3	1524.5	1656.7	1669.4	1336.5
55°	1396.4	1385.4	1326.1	1336.0	1457.5	1534.1	1595.3	1705.0	1789.7	1756.1	1390.6
57.5°	1453.4	1443.6	1411.6	1467.7	1642.7	1739.0	1805.7	1865.0	1907.0	1844.8	1441.5
60°	1511.8	1506.0	1506.8	1613.9	1855.2	1947.6	1984.5	1999.9	2022.2	1928.1	1444.5
62.5°	1567.5	1578.4	1615.6	1776.5	2058.8	2129.8	2148.4	2163.6	2137.4	1941.4	1334.5
65°	1661.7	1679.6	1768.4	1994.3	2282.7	2358.7	2377.8	2325.8	2155.6	1770.2	1085.5
67.5°	1707.7	1740.3	1898.8	2197.3	2499.9	2584.3	2577.2	2336.4	1934.4	1349.9	696.6
69°	1698.1	1732.9	1928.9	2259.5	2572.0	2648.6	2603.4	2207.2	1648.0	977.9	427.6
70°	1660.0	1695.2	1913.3	2257.2	2581.2	2641.9	2554.7	2047.8	1393.5	715.0	267.4
72.5°	1386.4	1416.6	1698.7	2040.2	2377.8	2328.6	2137.2	1418.7	678.9	194.7	60.2
75°	853.4	870.2	1218.9	1537.0	1796.0	1669.4	1423.9	705.9	202.4	55.0	33.5
77.5°	450.8	458.6	667.2	906.0	1138.5	942.1	729.9	275.4	93.2	34.5	24.1
80°	266.5	272.3	359.4	414.2	492.6	411.6	291.8	169.1	66.7	21.7	21.6
82.5°	152.5	156.1	260.6	230.2	194.2	165.7	145.2	160.2	40.1	14.5	22.3
85°	56.0	56.9	146.6	175.2	115.5	68.8	72.1	132.8	10.7	9.2	17.5
87.5°	26.1	25.5	75.4	107.3	67.5	43.6	56.2	29.2	4.3	5.9	4.8
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°	481.5	481.5	481.5	481.5	481.5	481.5	481.5	481.5	481.5	481.5	481.5
2.5°	475.9	468.7	455.8	442.6	429.2	418.8	408.6	400.6	397.9	392.9	393.4
5°	461.2	448.2	421.3	394.1	365.7	342.3	320.2	302.3	293.7	284.9	284.9
7.5°	448.5	429.6	387.6	343.2	297.4	258.8	224.1	198.0	183.5	172.1	171.9
10°	443.8	418.0	359.4	295.9	231.9	179.4	138.1	111.7	98.0	89.3	88.8
12.5°	445.9	414.0	337.6	252.1	171.9	115.3	80.0	63.0	57.2	54.5	54.5
15°	452.0	412.9	316.0	209.3	121.5	72.1	53.1	48.5	48.2	48.2	48.2
17.5°	459.6	413.2	293.7	167.7	82.7	51.6	45.9	45.3	45.7	45.7	45.7
20°	467.2	413.4	269.8	129.2	58.4	44.9	43.1	42.9	43.3	43.3	43.6
22.5°	476.6	414.4	245.8	96.4	48.2	42.4	41.1	41.1	41.3	41.3	41.1
25°	487.3	416.3	220.8	71.6	43.9	40.7	39.6	39.4	39.6	39.4	39.2
27.5°	500.7	419.0	193.0	56.0	42.1	38.9	38.0	38.0	37.8	37.5	37.3
30°	517.7	422.1	161.7	47.5	40.1	37.3	36.5	36.3	36.0	35.7	35.7
32.5°	543.3	428.9	130.9	43.1	38.0	35.3	34.5	34.5	34.2	33.8	33.6
35°	582.9	442.1	103.2	40.5	35.7	33.0	32.0	32.0	31.6	31.4	31.2
37.5°	637.5	462.1	80.2	38.0	33.5	30.5	29.5	29.4	29.0	28.6	28.4
40°	710.3	487.1	63.2	35.7	31.0	28.0	27.2	26.9	26.1	25.5	25.5
42.5°	801.5	515.4	51.3	33.3	28.4	25.6	25.1	24.6	23.2	22.6	22.4
45°	897.1	541.1	43.3	30.3	25.6	23.4	23.1	22.1	20.3	19.7	19.7
47.5°	966.0	547.0	38.1	27.7	23.2	20.9	20.8	19.0	17.5	17.1	16.9
50°	1009.0	535.3	34.0	24.9	20.9	18.6	18.0	16.0	15.0	14.5	14.4
52.5°	1038.0	514.4	30.5	22.6	18.8	16.5	15.2	13.6	12.9	12.4	12.4
55°	1061.1	484.8	27.1	20.5	17.1	14.7	12.9	11.7	10.9	10.6	10.6
57.5°	1067.7	444.6	23.6	18.8	15.3	13.0	10.9	10.2	9.2	9.1	9.1
60°	1020.3	372.3	20.9	16.7	13.7	11.4	9.7	8.6	7.6	7.4	7.3
62.5°	895.4	288.1	18.5	14.7	12.1	9.9	8.3	7.1	6.3	6.3	6.3
65°	683.0	193.2	16.2	12.9	10.6	8.3	7.1	5.8	5.4	5.4	5.6
67.5°	408.8	105.1	13.7	10.9	9.1	6.9	5.9	5.0	4.8	5.0	5.0
69°	239.6	61.7	12.4	9.9	7.8	6.1	5.1	4.4	4.8	5.0	5.0
70°	147.9	41.6	11.5	8.8	7.1	5.6	4.8	4.3	4.6	4.8	4.8
72.5°	41.3	21.6	9.2	6.9	5.8	4.6	3.9	3.9	4.4	4.6	4.6
75°	26.9	16.0	7.1	5.1	4.4	3.6	3.3	3.6	4.3	4.4	4.4
77.5°	22.3	13.0	5.8	4.3	3.6	3.5	3.1	3.3	3.9	4.1	4.1
80°	20.3	9.2	4.6	3.9	3.3	3.1	2.8	2.7	3.5	3.6	3.6
82.5°	19.3	7.3	4.1	3.5	3.1	2.7	2.5	2.7	3.1	3.3	3.5
85°	12.1	4.8	3.6	3.3	2.7	2.5	2.5	2.5	2.8	3.1	3.1
87.5°	4.4	3.9	3.3	2.7	2.3	2.3	2.3	2.3	2.5	2.8	2.8
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)