

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: P269088

Luminaire Tested: **GLEON-AF-02-LED-E1-SL4-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269088
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-02-LED-E1-SL4-7027-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES 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: 8587 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 113
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

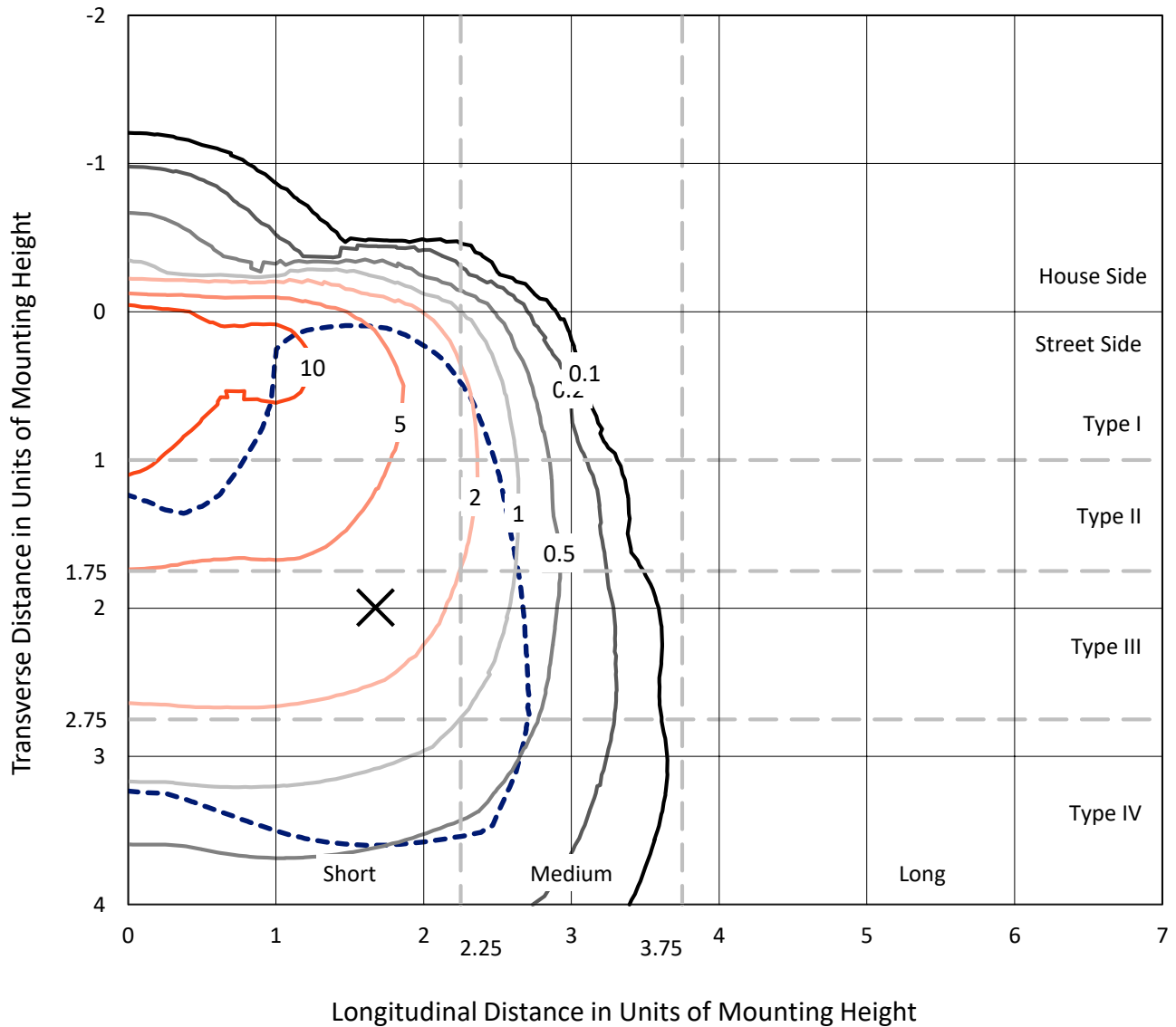


REPORT NUMBER: P269088

CATALOG NUMBER: GLEON-AF-02-LED-E1-SL4-7027-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

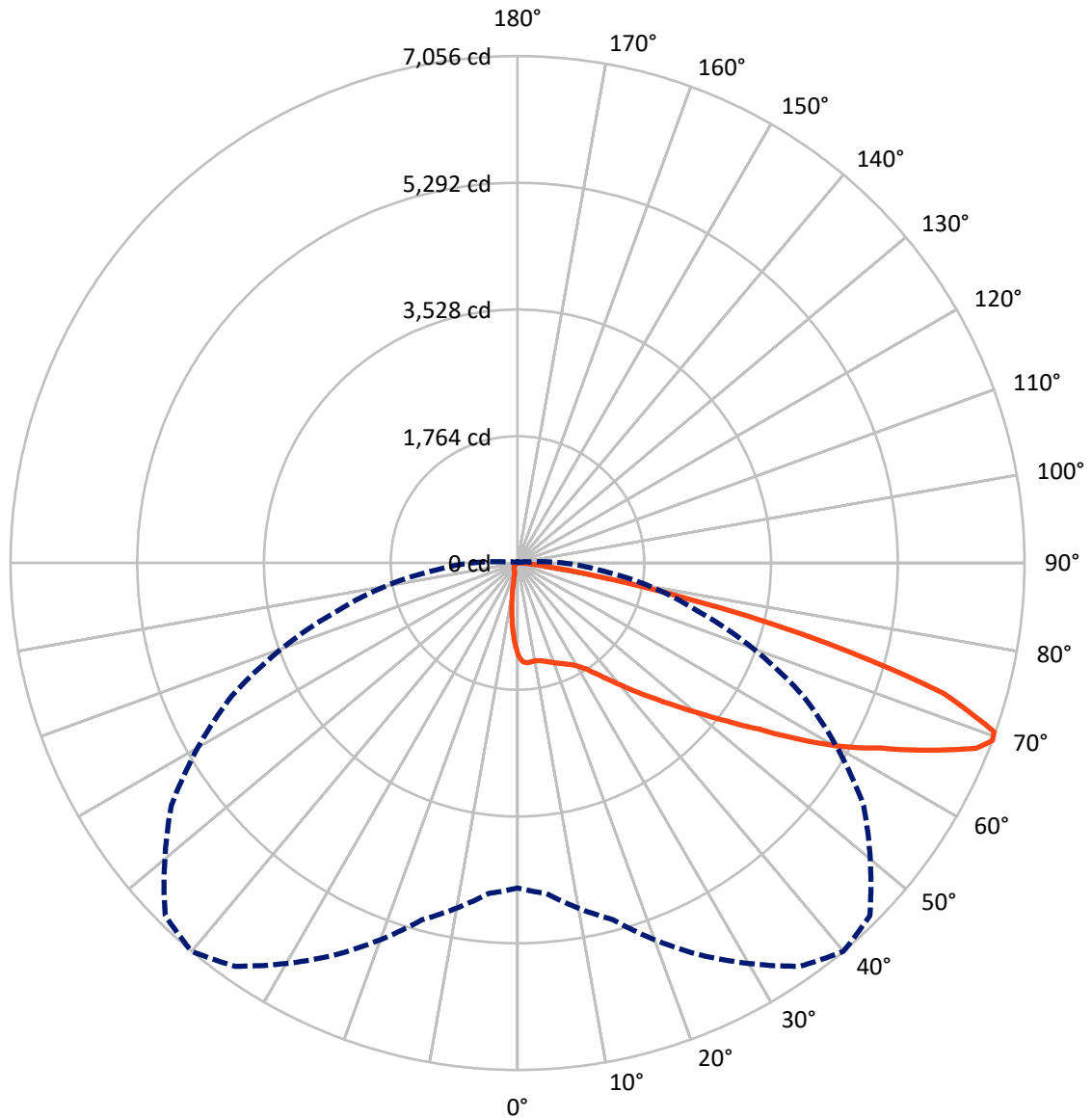


Based on 10 foot mounting height. Maximum calculated value = 14 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P269088

CATALOG NUMBER: GLEON-AF-02-LED-E1-SL4-7027-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P269088

CATALOG NUMBER: GLEON-AF-02-LED-E1-SL4-7027-HSS

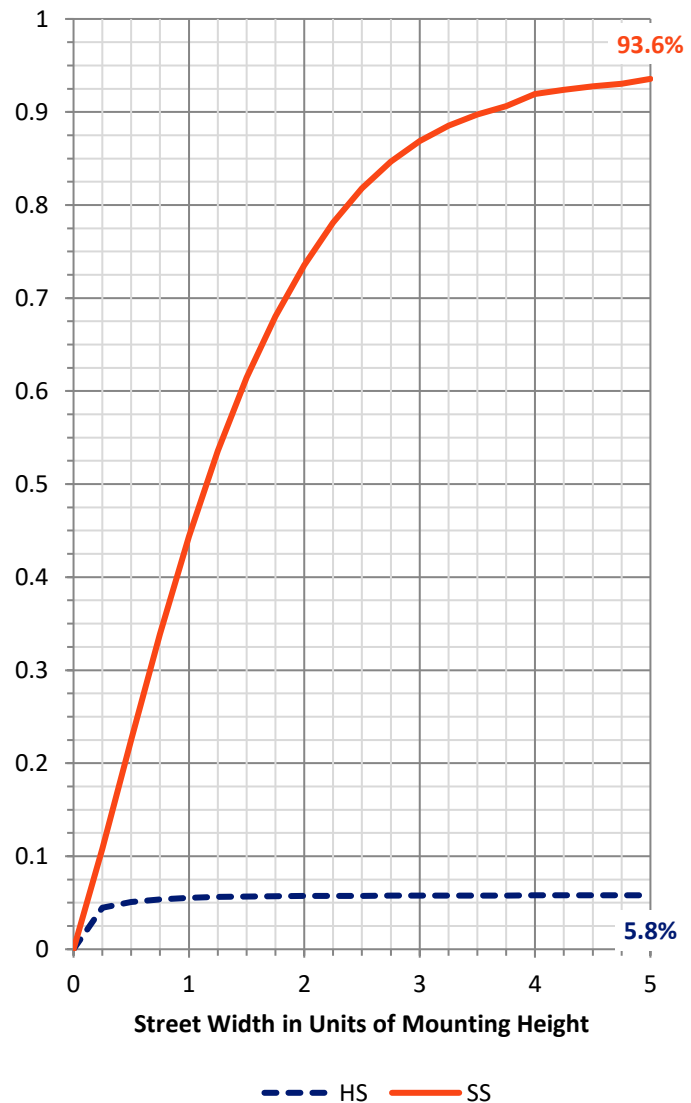
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	502.4	0.0	502.4
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	8084.6	0.0	8084.6
	% Fixture	94.1	0.0	94.1
Total	Lumens	8587.0	0.0	8587.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.0	1.2
10°-20°	255.8	3.0
20°-30°	430.9	5.0
30°-40°	705.3	8.2
40°-50°	1221.3	14.2
50°-60°	1923.6	22.4
60°-70°	2512.2	29.3
70°-80°	1293.9	15.1
80°-90°	140.0	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°	8587.0	100.0
0°-180°	8587.0	100.0



REPORT NUMBER: P269088

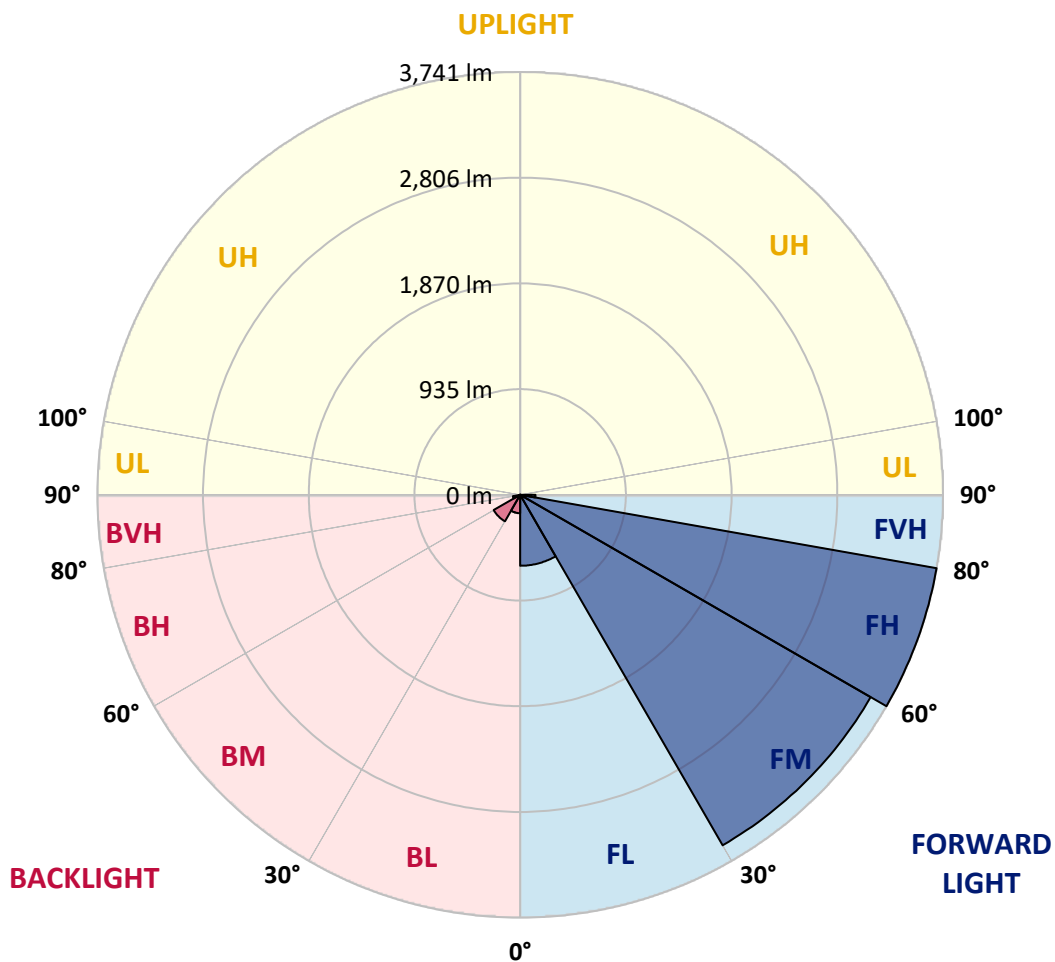
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	628.0	7.3			
FM	(30°-60°)	3580.2	41.7			
FH	(60°-80°)	3740.8	43.6			G2/5000
FVH	(80°-90°)	135.6	1.6			G2/225
BL	(0°-30°)	162.7	1.9	B1/500		
BM	(30°-60°)	270.0	3.1	B1/1000		
BH	(60°-80°)	65.2	0.8	B0/110		G0/110
BVH	(80°-90°)	4.4	0.1			G0/10
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: P269088

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9
2.5°	1408.7	1400.9	1396.4	1390.2	1382.6	1375.9	1373.4	1354.6	1336.6	1312.1	1283.9
5°	1434.8	1432.2	1424.1	1415.8	1406.7	1396.4	1390.8	1368.3	1342.7	1306.9	1257.8
7.5°	1437.3	1434.2	1424.1	1412.8	1400.0	1387.7	1378.0	1355.5	1331.9	1295.7	1235.9
10°	1433.2	1429.7	1421.9	1409.7	1393.9	1382.1	1372.4	1351.0	1331.0	1298.3	1231.8
12.5°	1428.7	1425.0	1421.5	1415.3	1401.5	1393.4	1385.1	1364.7	1346.7	1319.3	1246.7
15°	1433.2	1431.2	1435.2	1432.6	1425.0	1417.9	1409.7	1391.2	1374.9	1351.9	1273.7
17.5°	1452.6	1452.6	1465.5	1466.9	1459.7	1449.5	1437.7	1419.4	1405.6	1386.2	1306.0
20°	1498.2	1496.5	1512.9	1516.0	1498.6	1482.8	1465.5	1442.9	1432.2	1420.0	1337.7
22.5°	1576.3	1569.2	1579.0	1575.7	1541.6	1517.1	1495.6	1468.0	1462.4	1456.7	1372.9
25°	1678.0	1673.9	1680.5	1650.5	1590.1	1556.9	1531.3	1500.2	1500.2	1505.7	1412.8
27.5°	1825.7	1810.4	1787.9	1734.7	1644.3	1601.9	1574.3	1541.0	1549.8	1570.6	1465.5
30°	1977.1	1960.2	1908.5	1826.9	1710.3	1665.7	1633.6	1598.9	1619.3	1657.6	1535.9
32.5°	2126.3	2107.5	2034.3	1931.0	1804.9	1760.3	1729.1	1690.8	1725.0	1789.5	1639.1
35°	2270.9	2254.0	2169.8	2048.0	1930.5	1893.7	1865.2	1832.0	1875.8	1965.9	1784.8
37.5°	2433.5	2415.2	2312.3	2180.5	2083.3	2056.8	2035.7	2002.6	2079.2	2211.2	1987.8
40°	2633.3	2602.2	2463.6	2332.3	2260.2	2247.4	2233.1	2228.5	2347.6	2530.0	2258.2
42.5°	2862.3	2811.2	2622.2	2492.3	2454.4	2463.6	2460.1	2480.5	2683.4	2926.8	2587.4
45°	3091.2	3025.4	2798.4	2662.9	2668.1	2700.3	2720.2	2802.1	3104.2	3381.6	2941.6
47.5°	3285.6	3220.7	2967.6	2847.4	2908.8	2972.2	3026.4	3181.3	3536.4	3829.4	3217.1
50°	3451.6	3390.4	3147.0	3050.5	3188.4	3290.8	3378.5	3608.1	4001.6	4170.3	3410.2
52.5°	3587.7	3546.8	3333.2	3282.9	3507.9	3657.7	3786.4	4061.4	4413.6	4447.4	3560.5
55°	3720.1	3690.9	3532.9	3559.5	3883.1	4087.0	4250.1	4542.4	4768.4	4678.5	3704.7
57.5°	3872.4	3845.7	3760.9	3910.1	4376.4	4632.9	4810.8	4968.7	5080.6	4914.5	3840.7
60°	4027.7	4012.4	4014.4	4299.6	4942.7	5189.0	5287.2	5328.0	5387.3	5136.9	3848.2
62.5°	4176.0	4205.1	4304.1	4733.1	5485.0	5674.1	5723.6	5764.1	5694.5	5172.1	3555.4
65°	4426.8	4474.5	4711.2	5313.3	6081.4	6283.9	6334.9	6196.5	5743.0	4716.2	2892.0
67.5°	4549.6	4636.5	5058.6	5854.0	6660.0	6884.9	6866.0	6224.5	5153.8	3596.4	1855.9
69°	4524.0	4616.5	5138.9	6019.6	6852.2	7056.1	6936.1	5880.6	4390.6	2605.3	1139.3
70°	4422.9	4516.4	5097.5	6013.4	6876.7	7038.3	6806.2	5455.9	3712.3	1904.9	712.5
72.5°	3693.4	3774.1	4525.5	5435.4	6334.9	6203.5	5693.9	3779.8	1808.8	518.9	160.4
75°	2273.5	2318.4	3247.3	4094.7	4784.7	4447.4	3793.6	1880.4	539.3	146.8	88.9
77.5°	1201.2	1221.7	1777.7	2413.6	3033.0	2509.7	1944.3	733.5	248.4	91.9	64.4
80°	710.0	725.3	957.4	1103.6	1312.7	1096.4	777.5	450.3	177.9	57.8	57.2
82.5°	406.4	416.1	694.1	613.4	517.2	441.5	386.9	426.8	106.8	38.8	59.3
85°	149.3	151.3	390.6	466.7	307.7	183.0	192.1	353.8	28.7	24.6	46.5
87.5°	69.4	68.0	201.0	285.8	179.9	116.1	149.7	77.8	11.3	15.8	12.8
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: P269088

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9
2.5°	1267.6	1248.7	1214.5	1179.1	1143.5	1115.9	1088.7	1067.2	1060.1	1046.7	1047.9
5°	1228.7	1193.9	1122.4	1049.8	974.2	911.9	853.1	805.5	782.6	759.1	759.1
7.5°	1195.0	1144.4	1032.5	914.5	792.2	689.4	597.1	527.5	489.1	458.5	458.0
10°	1182.3	1113.8	957.4	788.2	617.9	477.9	368.0	297.5	261.1	237.7	236.7
12.5°	1187.9	1102.9	899.7	671.7	458.0	307.2	213.2	167.7	152.4	145.2	145.2
15°	1204.2	1100.0	841.8	557.7	323.6	192.1	141.7	129.4	128.3	128.3	128.3
17.5°	1224.2	1101.0	782.6	446.7	220.4	137.5	122.2	120.6	121.6	121.6	121.6
20°	1244.6	1101.5	718.6	344.1	155.3	119.7	115.1	114.5	115.5	115.5	116.1
22.5°	1269.7	1104.0	654.8	257.1	128.3	112.9	109.4	109.4	110.0	110.0	109.4
25°	1298.3	1109.1	588.3	190.6	117.0	108.3	105.3	104.8	105.3	104.8	104.3
27.5°	1334.1	1116.4	514.2	149.3	111.8	103.8	101.1	101.1	100.7	100.3	99.7
30°	1379.1	1124.5	430.8	126.8	106.8	99.7	97.0	96.6	96.1	95.1	95.1
32.5°	1447.4	1142.4	348.6	115.1	101.1	94.1	91.9	91.9	91.0	90.0	89.4
35°	1552.8	1177.7	275.1	107.8	95.1	87.9	85.3	85.3	84.4	83.8	83.4
37.5°	1698.4	1231.2	213.6	101.1	88.9	81.2	78.7	78.2	77.2	76.1	75.6
40°	1892.2	1297.7	168.2	95.1	82.9	74.6	72.7	71.5	69.4	68.0	68.0
42.5°	2135.5	1373.4	136.5	88.5	75.6	68.5	67.0	65.4	61.9	60.4	59.7
45°	2390.0	1441.4	115.5	80.8	68.5	62.3	61.4	58.7	54.2	52.6	52.6
47.5°	2573.6	1457.2	101.7	73.7	61.9	55.8	55.2	50.7	46.5	45.5	44.9
50°	2688.1	1426.1	90.5	66.5	55.8	49.5	48.1	42.4	39.9	38.8	38.4
52.5°	2765.3	1370.4	81.2	60.4	50.0	43.9	40.3	36.3	34.2	33.2	33.2
55°	2827.1	1291.7	72.0	54.6	45.5	39.3	34.2	31.3	29.1	28.0	28.0
57.5°	2844.5	1184.9	62.9	50.0	41.0	34.8	29.1	27.0	24.6	24.1	24.1
60°	2718.2	992.1	55.8	44.5	36.8	30.2	25.5	22.9	20.4	19.9	19.5
62.5°	2385.4	767.7	49.0	39.3	32.2	26.1	22.0	19.0	16.9	16.9	16.9
65°	1819.6	514.6	42.8	34.2	28.0	22.0	19.0	15.4	14.4	14.4	14.8
67.5°	1089.3	280.1	36.8	29.1	24.1	18.3	15.8	13.2	12.8	13.2	13.2
69°	638.3	164.6	33.2	26.1	21.0	16.3	13.8	11.8	12.8	13.2	13.2
70°	394.0	110.9	30.6	23.5	19.0	14.8	12.8	11.3	12.2	12.8	12.8
72.5°	110.0	57.2	24.6	18.3	15.4	12.2	10.2	10.2	11.8	12.2	12.2
75°	71.5	42.4	19.0	13.8	11.8	9.7	8.8	9.7	11.3	11.8	11.8
77.5°	59.3	34.8	15.4	11.3	9.7	9.3	8.2	8.8	10.2	10.7	10.7
80°	54.2	24.6	12.2	10.2	8.8	8.2	7.6	7.1	9.3	9.7	9.7
82.5°	51.7	19.5	10.7	9.3	8.2	7.1	6.6	7.1	8.2	8.8	9.3
85°	32.2	12.8	9.7	8.8	7.1	6.6	6.6	6.6	7.6	8.2	8.2
87.5°	11.8	10.2	8.8	7.1	6.1	6.1	6.1	6.1	6.6	7.6	7.6
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)