

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: P191201

Luminaire Tested: **GLEON-AF-03-LED-E1-SL4-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191201
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-03-LED-E1-SL4-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA 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: 12190.5 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

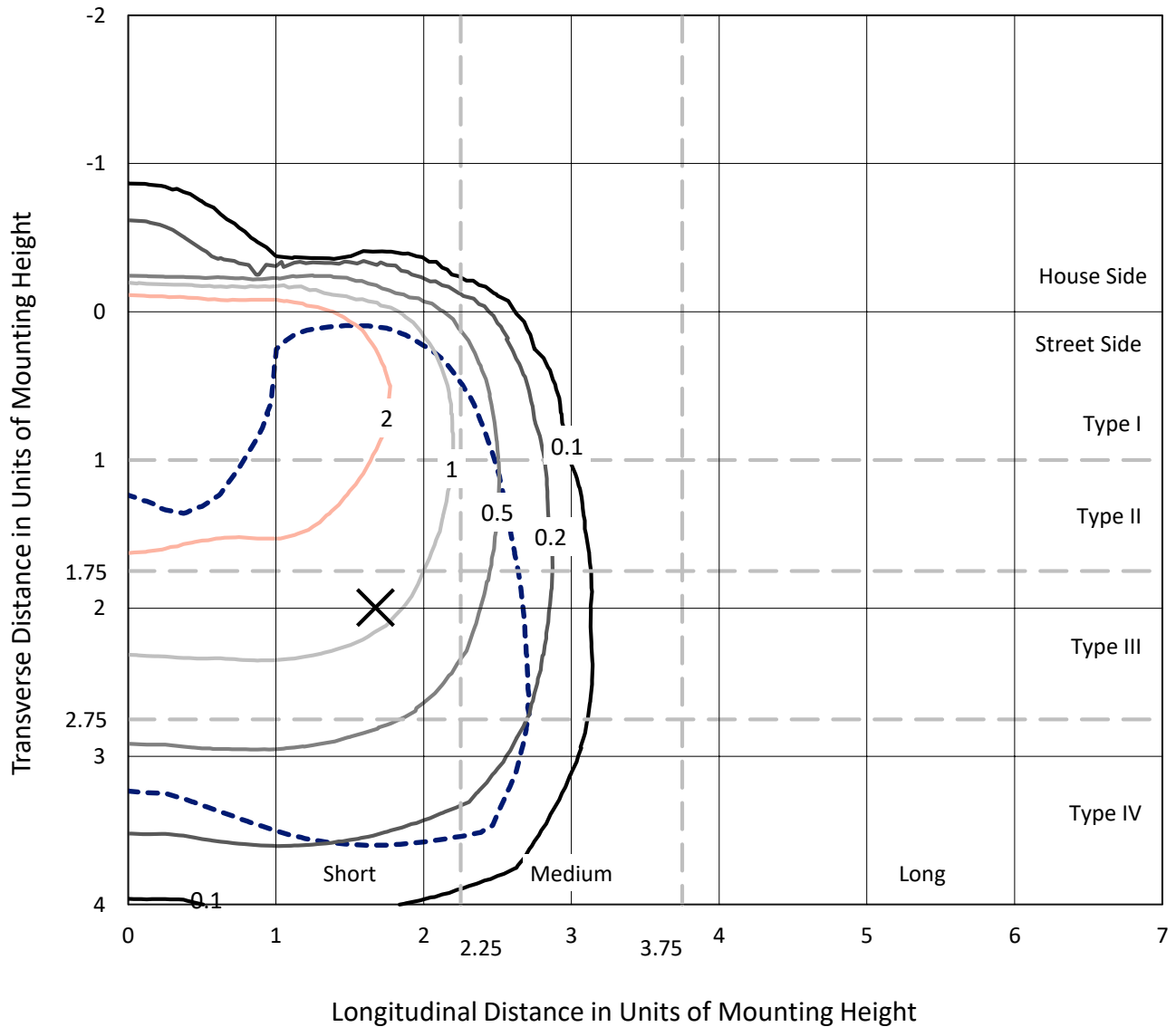
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

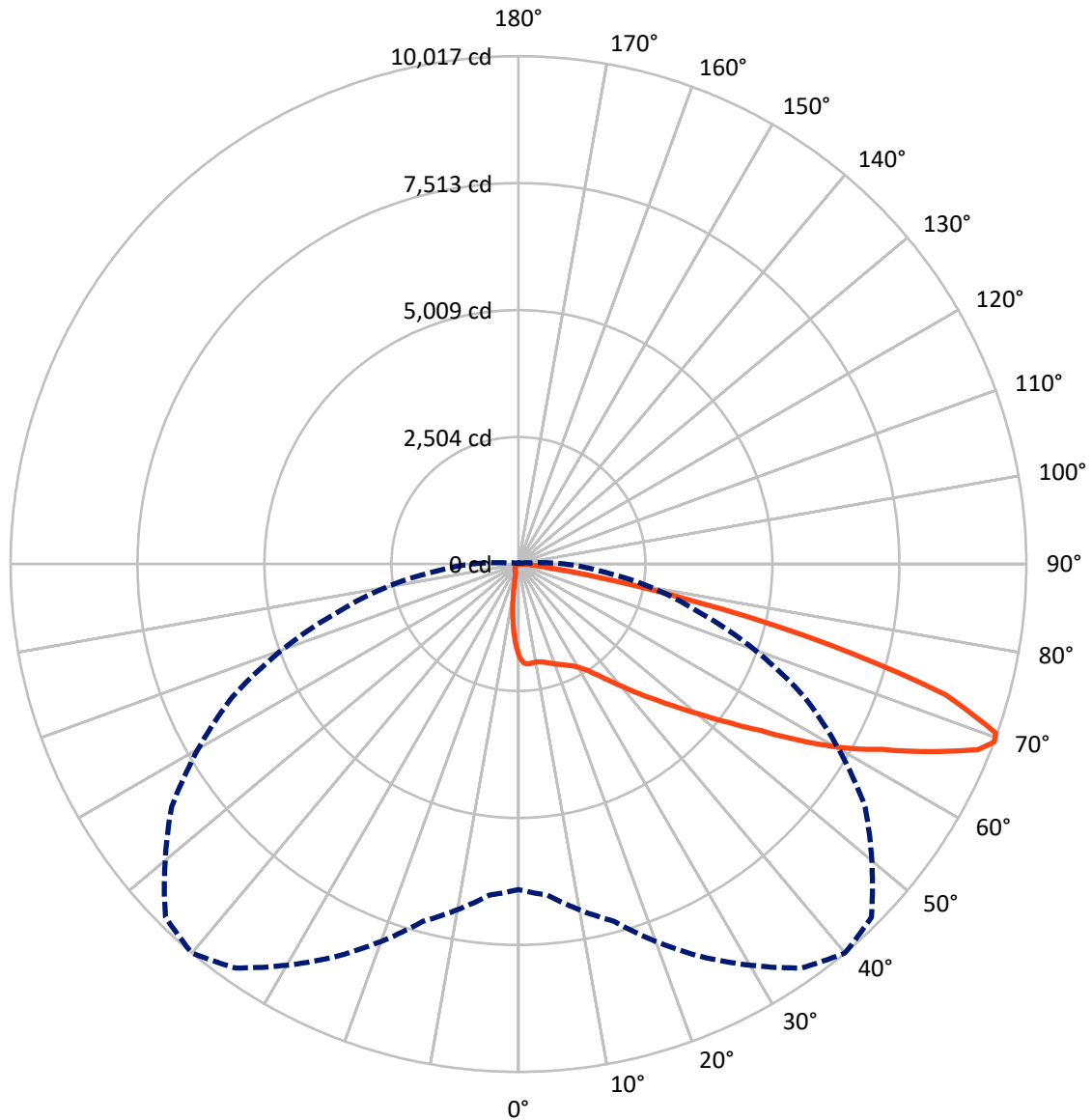
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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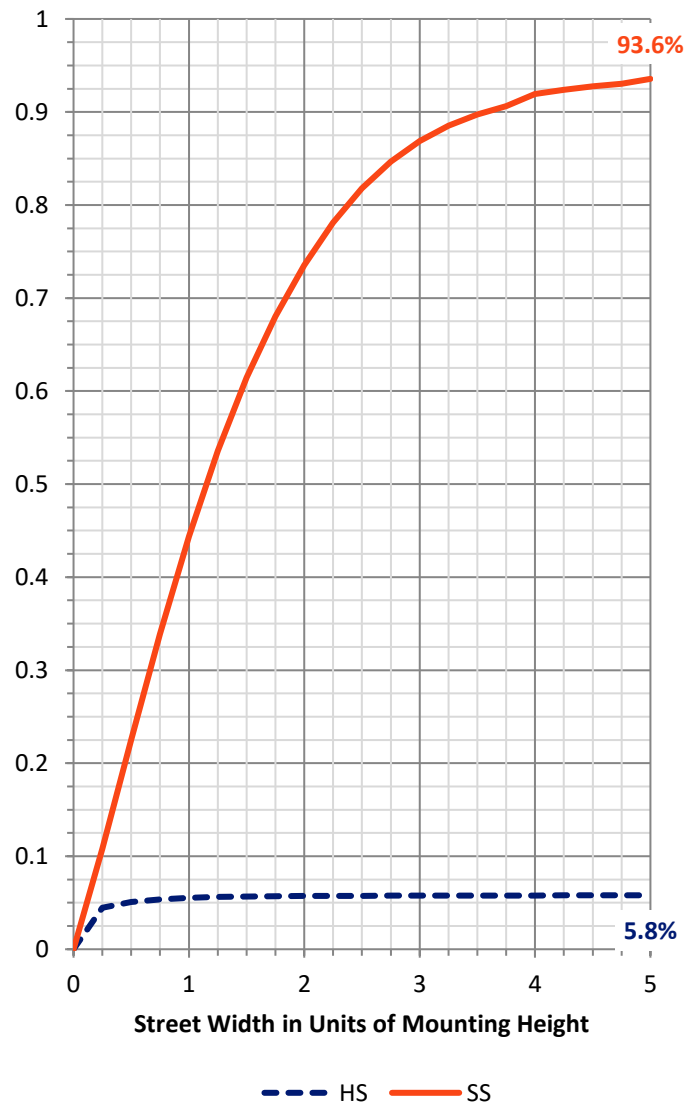
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	713.2	0.0	713.2
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	11477.3	0.0	11477.3
	% Fixture	94.1	0.0	94.1
Total	Lumens	12190.5	0.0	12190.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.7	1.2
10°-20°	363.2	3.0
20°-30°	611.7	5.0
30°-40°	1001.3	8.2
40°-50°	1733.8	14.2
50°-60°	2730.9	22.4
60°-70°	3566.4	29.3
70°-80°	1836.9	15.1
80°-90°	198.7	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°	12190.5	100.0
0°-180°	12190.5	100.0

Coefficient of Utilization



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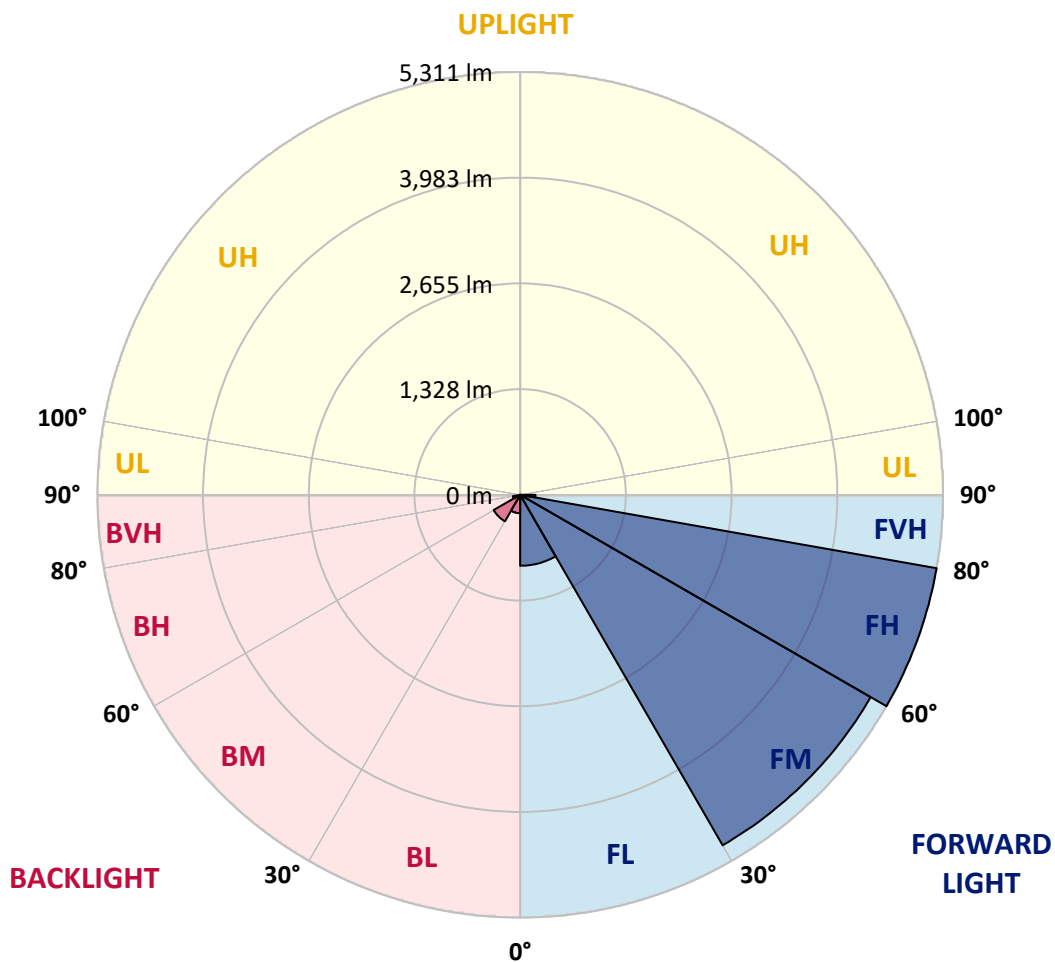
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	891.5	7.3			
FM	(30°-60°)	5082.7	41.7			
FH	(60°-80°)	5310.7	43.6			G3/7500
FVH	(80°-90°)	192.5	1.6			G2/225
BL	(0°-30°)	231.0	1.9	B1/500		
BM	(30°-60°)	383.3	3.1	B1/1000		
BH	(60°-80°)	92.6	0.8	B0/110		G0/110
BVH	(80°-90°)	6.2	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1821.4	1821.4	1821.4	1821.4	1821.4	1821.4	1821.4	1821.4	1821.4	1821.4	1821.4
2.5°	1999.9	1988.9	1982.4	1973.7	1962.8	1953.4	1949.7	1922.9	1897.5	1862.7	1822.8
5°	2036.8	2033.2	2021.6	2010.0	1996.9	1982.4	1974.4	1942.5	1906.3	1855.4	1785.8
7.5°	2040.5	2036.1	2021.6	2005.6	1987.5	1970.1	1956.3	1924.4	1891.0	1839.5	1754.6
10°	2034.6	2029.5	2018.7	2001.3	1978.8	1962.1	1948.3	1917.8	1889.5	1843.1	1748.7
12.5°	2028.1	2023.1	2018.0	2009.3	1989.6	1978.1	1966.4	1937.5	1912.0	1872.8	1769.8
15°	2034.6	2031.8	2037.5	2033.9	2023.1	2012.9	2001.3	1975.1	1951.9	1919.3	1808.3
17.5°	2062.3	2062.3	2080.4	2082.5	2072.4	2057.9	2041.2	2015.1	1995.5	1967.9	1854.0
20°	2126.8	2124.7	2147.9	2152.2	2127.5	2105.0	2080.4	2048.5	2033.2	2015.8	1899.0
22.5°	2237.8	2227.7	2241.5	2237.1	2188.5	2153.6	2123.1	2084.0	2076.0	2068.0	1949.0
25°	2382.2	2376.4	2385.8	2343.1	2257.4	2210.3	2174.0	2129.7	2129.7	2137.7	2005.6
27.5°	2592.0	2570.2	2538.2	2462.8	2334.4	2274.1	2234.9	2187.8	2200.1	2229.8	2080.4
30°	2806.8	2782.7	2709.5	2593.4	2428.0	2364.9	2319.1	2269.7	2298.8	2353.2	2180.5
32.5°	3018.6	2991.7	2888.0	2741.4	2562.2	2499.1	2454.8	2400.4	2448.9	2540.4	2327.1
35°	3223.9	3200.0	3080.3	2907.6	2740.7	2688.4	2647.8	2600.6	2663.0	2790.7	2533.8
37.5°	3454.7	3428.6	3282.8	3095.6	2957.7	2919.9	2890.1	2843.0	2951.8	3139.0	2822.0
40°	3738.5	3694.2	3497.6	3311.1	3208.7	3190.6	3170.2	3163.8	3332.8	3591.9	3205.8
42.5°	4063.5	3990.9	3722.5	3538.2	3484.5	3497.6	3492.5	3521.5	3809.6	4154.9	3673.1
45°	4388.6	4295.0	3972.8	3780.5	3787.8	3833.5	3861.7	3977.8	4406.8	4800.7	4176.0
47.5°	4664.3	4572.2	4213.0	4042.5	4129.6	4219.6	4296.4	4516.3	5020.6	5436.4	4567.1
50°	4900.1	4813.1	4467.6	4330.6	4526.5	4671.6	4796.4	5122.2	5681.0	5920.4	4841.4
52.5°	5093.2	5035.2	4731.9	4660.7	4979.9	5192.6	5375.4	5765.9	6265.8	6313.7	5054.7
55°	5281.1	5239.8	5015.5	5053.3	5512.6	5802.1	6033.6	6448.7	6769.4	6641.7	5259.3
57.5°	5497.3	5459.6	5339.2	5551.0	6212.8	6577.1	6829.6	7053.9	7212.7	6976.9	5452.3
60°	5718.0	5696.2	5699.1	6103.9	7016.8	7366.6	7505.9	7563.9	7648.1	7292.5	5463.3
62.5°	5928.4	5969.7	6110.5	6719.4	7786.7	8055.2	8125.6	8182.9	8084.2	7342.6	5047.4
65°	6284.7	6352.1	6688.2	7542.9	8633.5	8920.8	8993.4	8796.8	8153.1	6695.3	4105.6
67.5°	6458.8	6582.2	7181.5	8310.7	9454.9	9774.2	9747.4	8836.7	7316.5	5105.5	2634.7
69°	6422.5	6553.8	7295.5	8545.7	9727.8	10017.2	9846.7	8348.3	6233.1	3698.5	1617.4
70°	6278.9	6411.7	7236.7	8537.0	9762.6	9991.9	9662.5	7745.4	5270.2	2704.4	1011.5
72.5°	5243.3	5358.0	6424.7	7716.3	8993.4	8806.9	8083.5	5366.0	2568.0	736.5	227.8
75°	3227.6	3291.4	4609.9	5813.0	6792.6	6313.7	5385.6	2669.6	765.6	208.3	126.2
77.5°	1705.3	1734.2	2523.7	3426.4	4305.9	3562.8	2760.3	1041.3	352.6	130.6	91.5
80°	1007.9	1029.7	1359.1	1566.6	1863.4	1556.4	1103.7	639.2	252.6	82.0	81.2
82.5°	576.8	590.7	985.4	870.7	734.4	627.0	549.3	605.9	151.7	55.1	84.2
85°	211.9	214.8	554.3	662.5	436.8	259.7	272.8	502.2	40.6	34.8	66.1
87.5°	98.7	96.5	285.2	405.6	255.4	164.7	212.6	110.3	16.0	22.5	18.1
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°	1821.4	1821.4	1821.4	1821.4	1821.4	1821.4	1821.4	1821.4	1821.4	1821.4	1821.4
2.5°	1799.6	1772.7	1724.1	1674.1	1623.2	1584.0	1545.6	1515.1	1505.0	1486.0	1487.6
5°	1744.4	1695.0	1593.5	1490.4	1383.0	1294.5	1211.1	1143.6	1110.9	1077.6	1077.6
7.5°	1696.6	1624.7	1465.8	1298.1	1124.7	978.9	847.5	748.8	694.4	650.9	650.2
10°	1678.4	1581.2	1359.1	1118.9	877.3	678.4	522.4	422.3	370.8	337.4	335.9
12.5°	1686.3	1565.9	1277.2	953.5	650.2	436.1	302.6	238.0	216.3	206.1	206.1
15°	1709.6	1561.5	1195.1	791.7	459.3	272.8	201.0	183.6	182.1	182.1	182.1
17.5°	1737.9	1563.0	1110.9	634.2	312.7	195.2	173.4	171.2	172.7	172.7	172.7
20°	1766.9	1563.7	1020.2	488.4	220.5	169.8	163.3	162.5	164.0	164.0	164.7
22.5°	1802.4	1567.4	929.6	365.0	182.1	160.4	155.3	155.3	156.0	156.0	155.3
25°	1843.1	1574.6	835.2	270.7	166.1	153.9	149.5	148.7	149.5	148.7	148.0
27.5°	1893.9	1584.8	730.0	211.9	158.9	147.3	143.7	143.7	142.9	142.2	141.5
30°	1957.7	1596.4	611.7	179.9	151.7	141.5	137.9	137.2	136.5	134.9	134.9
32.5°	2055.0	1621.8	494.9	163.3	143.7	133.5	130.6	130.6	129.2	127.7	126.9
35°	2204.5	1671.8	390.4	153.1	134.9	124.8	121.2	121.2	119.7	119.0	118.3
37.5°	2411.3	1748.0	303.3	143.7	126.2	115.4	111.7	111.0	109.6	108.1	107.4
40°	2686.3	1842.3	238.8	134.9	117.5	106.0	103.0	101.6	98.7	96.5	96.5
42.5°	3031.7	1949.7	193.7	125.5	107.4	97.3	95.0	92.9	87.8	85.6	84.9
45°	3393.0	2046.3	164.0	114.7	97.3	88.5	87.1	83.5	76.9	74.8	74.8
47.5°	3653.6	2068.7	144.4	104.4	87.8	79.1	78.4	71.8	66.1	64.5	63.8
50°	3816.1	2024.5	128.5	94.3	79.1	70.4	68.2	60.3	56.6	55.1	54.4
52.5°	3925.7	1945.4	115.4	85.6	71.1	62.4	57.3	51.6	48.6	47.2	47.2
55°	4013.4	1833.6	102.3	77.6	64.5	55.9	48.6	44.3	41.3	39.9	39.9
57.5°	4038.1	1682.0	89.2	71.1	58.0	49.3	41.3	38.5	34.8	34.1	34.1
60°	3858.9	1408.4	79.1	63.1	52.3	42.9	36.3	32.6	29.1	28.3	27.6
62.5°	3386.5	1089.9	69.7	55.9	45.7	37.0	31.2	26.8	23.9	23.9	23.9
65°	2583.3	730.7	61.0	48.6	39.9	31.2	26.8	21.8	20.4	20.4	21.1
67.5°	1546.3	397.6	52.3	41.3	34.1	26.1	22.5	18.8	18.1	18.8	18.8
69°	906.3	233.6	47.2	37.0	29.8	23.2	19.6	16.7	18.1	18.8	18.8
70°	559.5	157.4	43.6	33.3	26.8	21.1	18.1	16.0	17.4	18.1	18.1
72.5°	156.0	81.2	34.8	26.1	21.8	17.4	14.5	14.5	16.7	17.4	17.4
75°	101.6	60.3	26.8	19.6	16.7	13.8	12.4	13.8	16.0	16.7	16.7
77.5°	84.2	49.3	21.8	16.0	13.8	13.1	11.6	12.4	14.5	15.2	15.2
80°	76.9	34.8	17.4	14.5	12.4	11.6	10.8	10.1	13.1	13.8	13.8
82.5°	73.2	27.6	15.2	13.1	11.6	10.1	9.4	10.1	11.6	12.4	13.1
85°	45.7	18.1	13.8	12.4	10.1	9.4	9.4	9.4	10.8	11.6	11.6
87.5°	16.7	14.5	12.4	10.1	8.7	8.7	8.7	8.7	9.4	10.8	10.8
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)