

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: P194170

Luminaire Tested: **GLEON-AF-02-LED-E1-5NQ-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194170
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
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-E1-5NQ-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8277 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 66
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

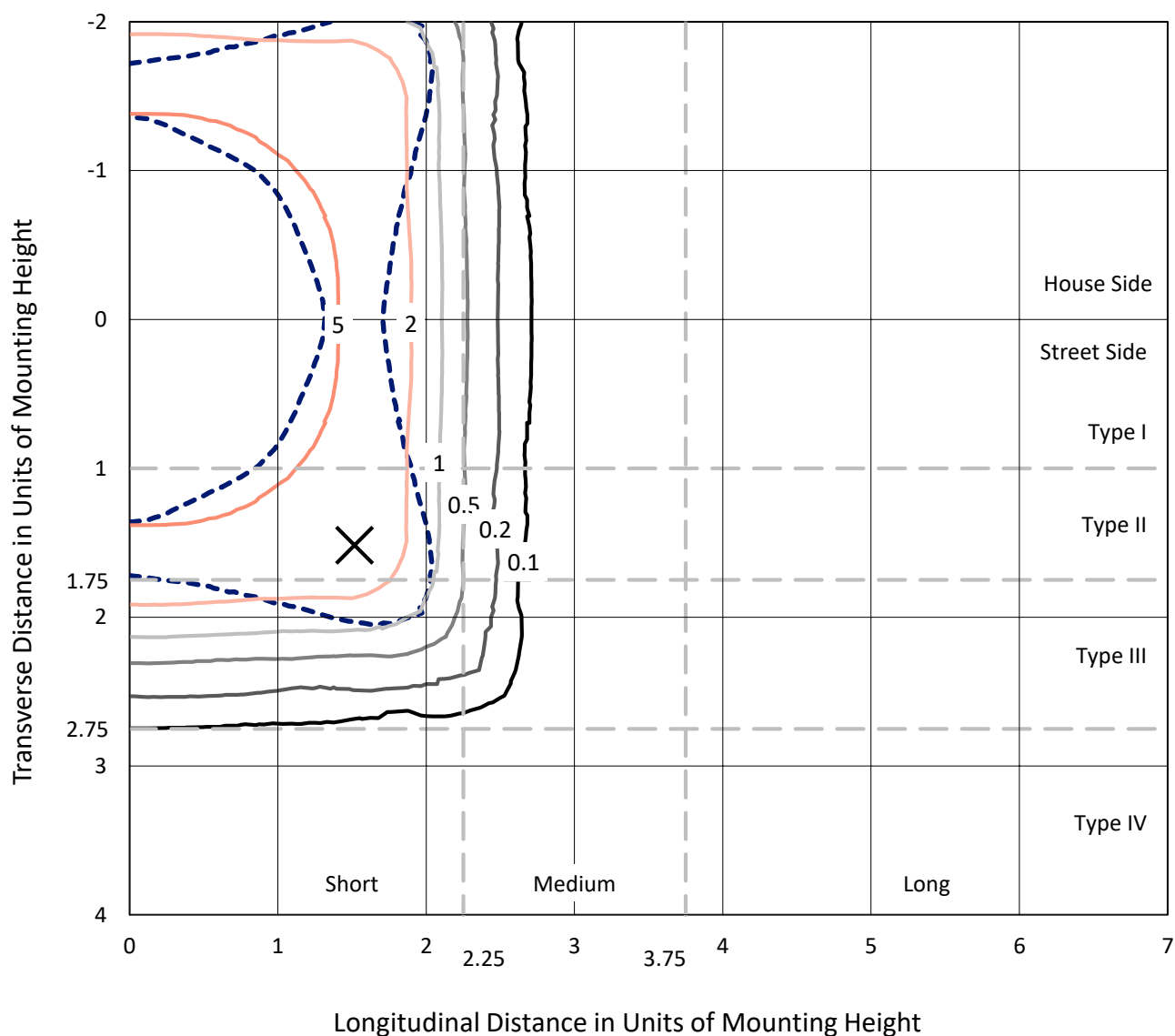


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

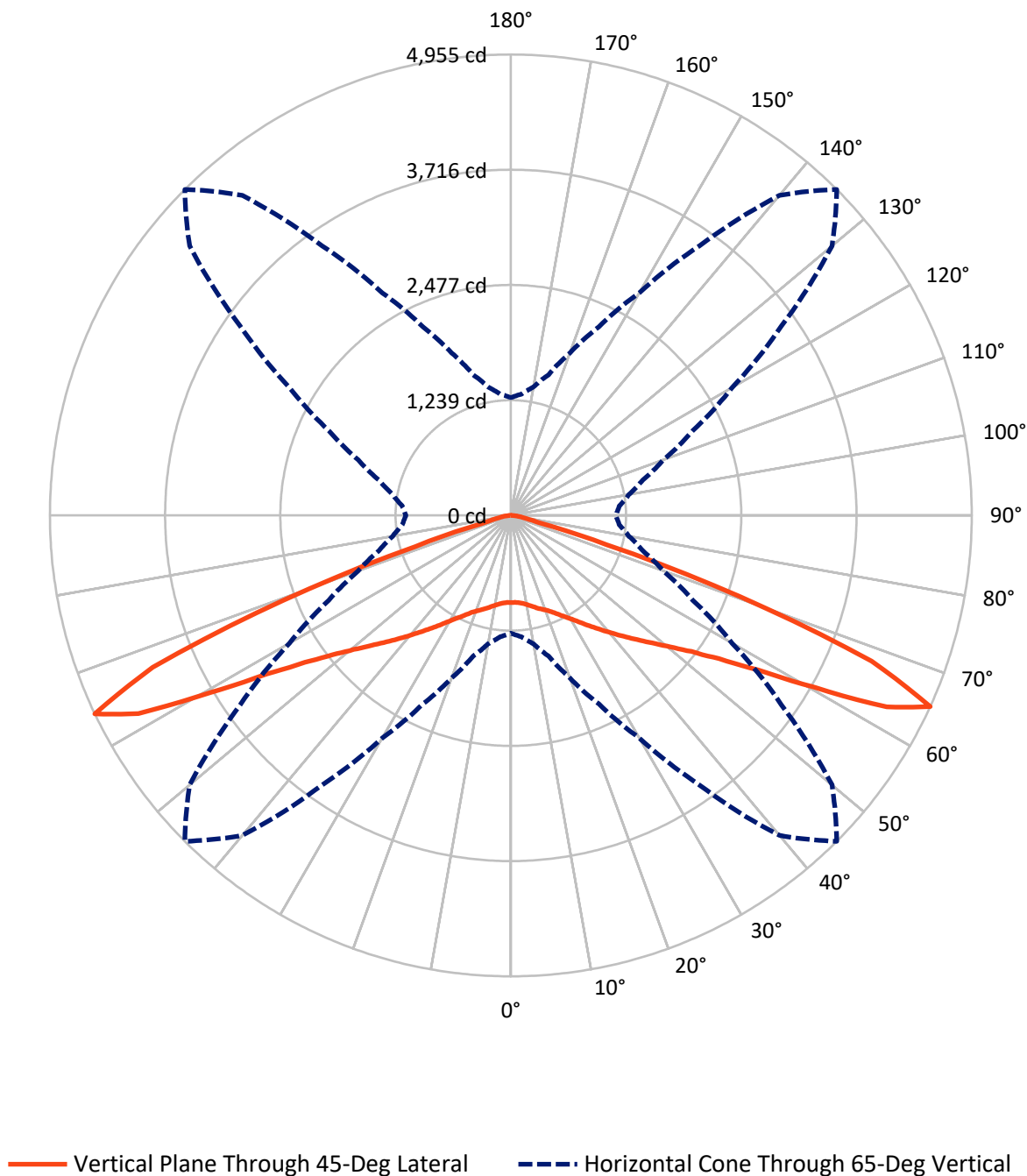


Based on 10 foot mounting height. Maximum calculated value = 9.4 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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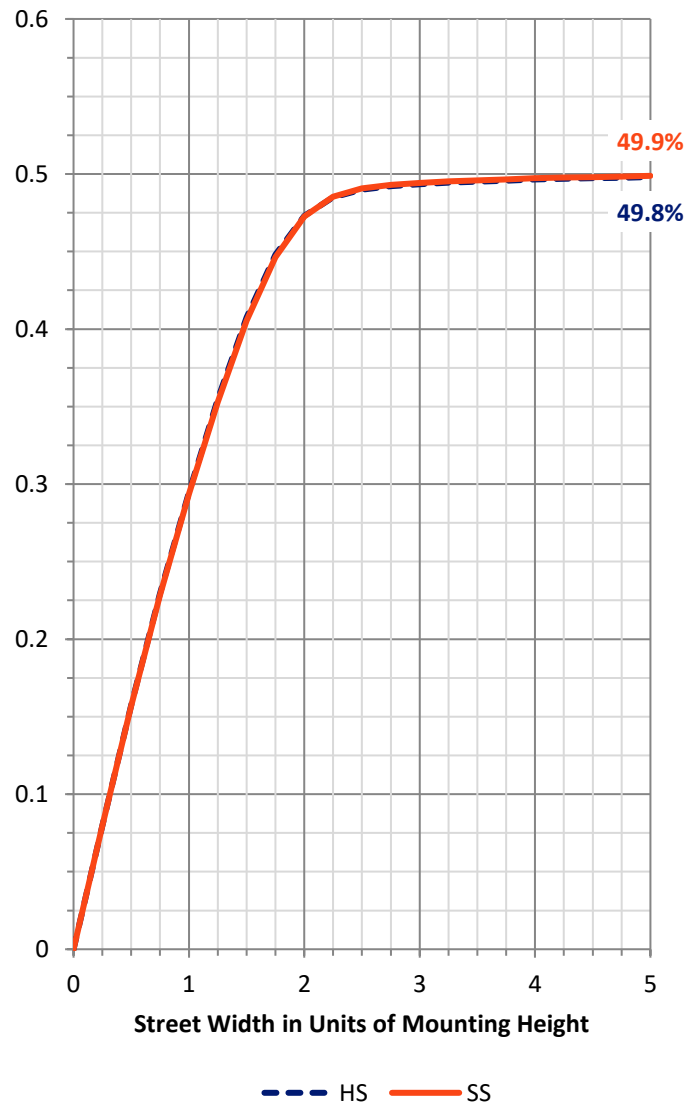
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4138.5	0.0	4138.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4138.5	0.0	4138.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8277.0	0.0	8277.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.3	1.1
10°-20°	292.8	3.5
20°-30°	547.4	6.6
30°-40°	925.8	11.2
40°-50°	1513.8	18.3
50°-60°	2407.2	29.1
60°-70°	2176.0	26.3
70°-80°	275.4	3.3
80°-90°	47.4	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°	8277.0	100.0
0°-180°	8277.0	100.0

Coefficient of Utilization



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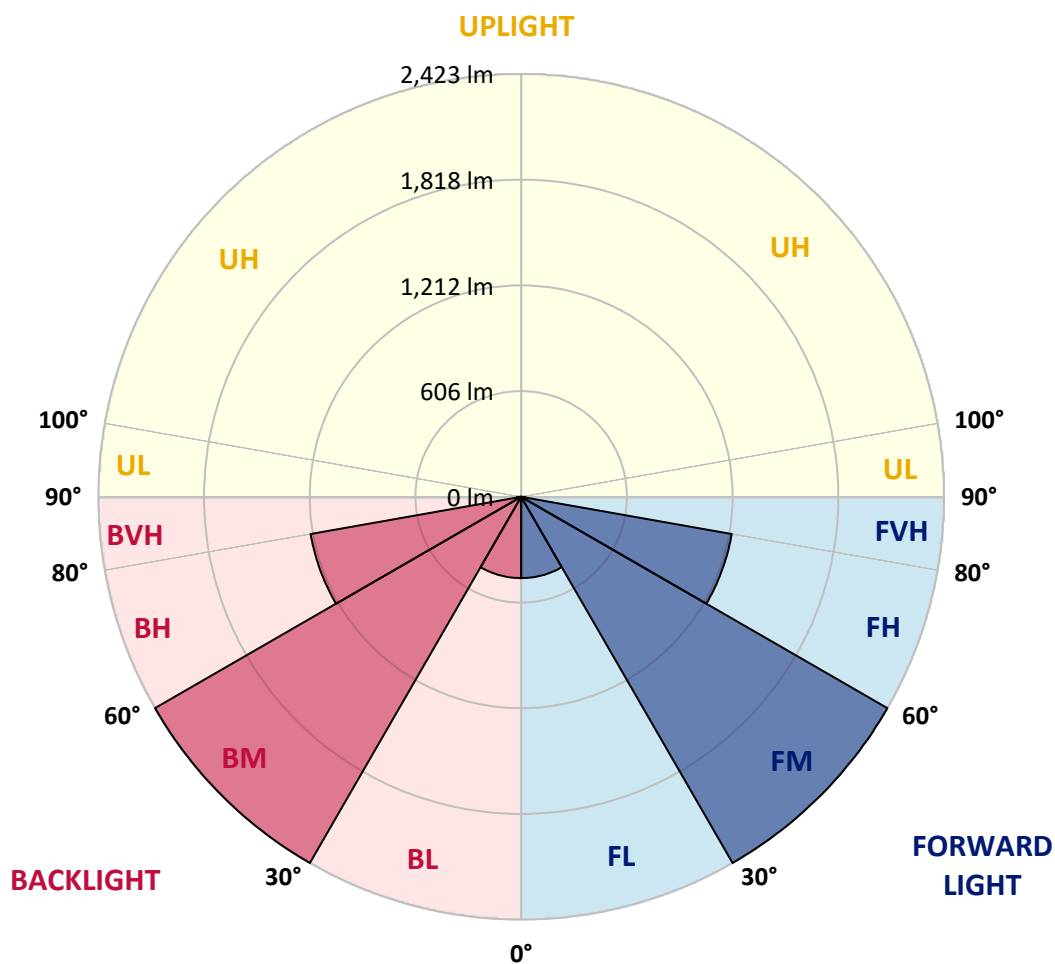
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	465.7	5.6			
FM	(30°-60°)	2423.4	29.3			
FH	(60°-80°)	1225.7	14.8			G1/1800
FVH	(80°-90°)	23.7	0.3			G1/100
BL	(0°-30°)	465.7	5.6	B1/500		
BM	(30°-60°)	2423.4	29.3	B2/2500		
BH	(60°-80°)	1225.7	14.8	B3/2500		G1/1800
BVH	(80°-90°)	23.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	936.5	936.5	936.5	936.5	936.5	936.5	936.5	936.5	936.5	936.5	936.5
2.5°	937.3	938.1	938.9	938.1	938.9	937.7	936.9	938.1	936.9	935.8	936.5
5°	945.5	945.9	945.9	944.7	945.9	945.1	943.9	945.5	944.3	943.1	943.9
7.5°	959.0	960.6	959.4	958.3	959.0	958.3	957.5	957.9	957.5	956.3	956.7
10°	977.2	978.4	977.6	977.2	978.0	977.6	976.9	976.5	976.9	975.7	975.7
12.5°	999.3	999.0	998.6	999.0	1000.1	1000.1	999.7	1000.1	1000.9	1001.3	1000.5
15°	1021.1	1021.8	1021.8	1021.8	1024.2	1026.1	1027.3	1028.0	1029.6	1030.0	1028.4
17.5°	1048.2	1048.2	1047.8	1048.2	1050.5	1053.6	1054.8	1056.3	1057.9	1059.0	1057.1
20°	1078.4	1079.2	1079.2	1080.0	1083.1	1086.6	1086.6	1087.3	1086.6	1087.3	1086.2
22.5°	1115.3	1117.6	1117.6	1118.0	1121.1	1125.3	1124.2	1125.3	1123.4	1124.9	1123.4
25°	1163.3	1166.8	1166.0	1166.0	1168.4	1171.1	1171.5	1173.8	1173.4	1175.3	1174.2
27.5°	1217.6	1223.0	1224.6	1224.2	1225.7	1228.4	1229.2	1231.9	1230.4	1231.9	1231.2
30°	1282.7	1285.0	1288.1	1289.3	1291.2	1294.0	1294.0	1294.3	1292.4	1294.7	1295.9
32.5°	1350.2	1354.4	1357.5	1364.5	1368.0	1369.9	1369.5	1370.3	1368.4	1371.5	1373.8
35°	1439.3	1442.4	1447.5	1452.9	1457.5	1457.2	1456.0	1456.4	1456.4	1459.1	1461.4
37.5°	1546.7	1547.5	1554.1	1561.8	1564.1	1561.8	1554.8	1553.3	1549.8	1553.3	1557.2
40°	1660.3	1663.0	1676.2	1681.2	1682.4	1678.1	1668.0	1662.2	1654.5	1658.7	1664.2
42.5°	1779.3	1784.7	1796.7	1805.6	1809.5	1806.8	1792.9	1783.9	1773.9	1776.2	1781.6
45°	1911.1	1917.7	1934.7	1943.3	1950.6	1946.4	1932.8	1919.2	1903.3	1904.5	1913.0
47.5°	2058.4	2065.0	2087.1	2101.4	2105.3	2104.5	2089.4	2070.8	2049.1	2048.3	2055.7
50°	2223.5	2230.1	2257.6	2279.7	2291.0	2289.8	2272.0	2245.6	2219.3	2219.6	2229.0
52.5°	2384.8	2392.9	2421.6	2459.6	2481.7	2497.6	2486.7	2461.9	2429.8	2430.5	2439.1
55°	2536.0	2549.5	2582.5	2634.0	2675.1	2719.7	2732.5	2731.7	2712.3	2717.8	2726.3
57.5°	2609.2	2629.4	2680.2	2761.6	2845.3	2936.0	3012.8	3070.1	3094.6	3131.4	3122.9
60°	2470.5	2502.6	2577.4	2697.2	2862.7	3051.9	3254.7	3452.7	3621.8	3749.3	3676.0
62.5°	2022.7	2064.6	2155.3	2308.8	2559.2	2862.0	3250.0	3718.3	4228.4	4536.2	4316.4
65°	1265.7	1309.1	1401.3	1565.7	1858.8	2235.2	2761.6	3537.6	4490.9	4954.9	4507.5
67.5°	493.5	517.1	567.1	672.2	892.4	1227.3	1755.6	2636.4	3776.4	4183.1	3706.3
70°	247.3	249.6	258.9	278.3	325.6	422.9	643.5	1222.2	2165.8	2615.8	2087.8
72.5°	178.7	179.1	183.7	192.3	207.4	229.1	271.0	374.1	704.3	1076.5	660.2
75°	136.8	138.4	141.1	145.8	153.9	164.7	179.9	215.5	267.1	309.7	260.5
77.5°	105.4	108.5	110.5	114.7	119.8	127.1	131.4	145.0	168.6	177.5	174.8
80°	80.2	83.0	87.2	90.7	94.2	97.7	96.1	102.3	114.7	122.1	118.2
82.5°	51.2	54.3	66.7	69.8	71.3	73.7	70.9	71.3	76.8	81.4	76.8
85°	32.9	34.9	42.3	46.1	46.5	48.1	46.9	44.2	44.2	40.3	45.4
87.5°	15.1	15.5	19.0	22.5	23.3	20.9	20.5	19.8	15.9	15.1	16.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	936.5	936.5	936.5	936.5	936.5	936.5	936.5	936.5
2.5°	936.2	936.9	937.3	938.5	938.9	938.9	939.3	940.0
5°	943.5	944.7	945.1	946.6	947.0	946.6	947.4	947.8
7.5°	956.7	958.6	959.4	961.0	959.8	961.4	961.7	961.7
10°	976.1	978.0	978.4	980.0	979.2	980.0	980.0	979.2
12.5°	1001.7	1002.1	1000.9	1002.1	1000.5	1001.3	1000.1	999.3
15°	1030.0	1028.8	1026.1	1026.1	1023.8	1024.2	1023.8	1023.4
17.5°	1057.5	1055.2	1053.2	1052.5	1050.5	1050.1	1049.0	1049.0
20°	1087.7	1086.6	1085.4	1083.9	1081.9	1080.0	1079.6	1080.4
22.5°	1124.2	1123.8	1123.8	1123.0	1120.3	1118.4	1117.2	1117.2
25°	1173.0	1169.5	1169.5	1169.1	1168.0	1166.8	1164.5	1165.6
27.5°	1228.1	1226.1	1227.7	1227.3	1226.1	1226.1	1224.6	1224.6
30°	1295.9	1295.1	1297.4	1295.5	1291.6	1291.2	1289.7	1287.8
32.5°	1374.2	1373.4	1376.9	1374.6	1368.4	1364.9	1361.8	1360.2
35°	1461.4	1461.8	1466.1	1464.5	1457.5	1455.2	1449.8	1449.0
37.5°	1556.8	1563.0	1570.3	1571.9	1566.1	1564.5	1558.7	1555.6
40°	1668.8	1676.9	1688.2	1690.9	1684.7	1683.5	1675.4	1671.1
42.5°	1788.2	1802.2	1816.1	1818.4	1812.2	1806.0	1798.3	1795.2
45°	1921.5	1938.2	1956.4	1961.1	1951.8	1944.4	1934.3	1934.3
47.5°	2071.2	2092.1	2112.7	2125.4	2116.9	2109.2	2097.2	2089.4
50°	2247.9	2276.6	2303.4	2316.6	2303.0	2288.3	2267.3	2260.3
52.5°	2469.7	2500.7	2523.9	2517.0	2496.0	2475.5	2452.6	2443.3
55°	2752.7	2763.1	2763.1	2736.8	2694.9	2660.4	2624.3	2612.3
57.5°	3106.6	3066.3	3004.2	2925.5	2826.7	2740.6	2682.5	2655.0
60°	3522.5	3328.7	3109.7	2894.5	2717.8	2572.0	2485.6	2446.0
62.5°	3799.7	3292.6	2853.8	2508.4	2254.1	2078.5	1959.2	1912.6
65°	3551.2	2746.1	2158.4	1745.2	1468.0	1289.3	1171.1	1127.7
67.5°	2601.1	1720.8	1149.4	823.7	603.6	481.5	433.0	412.8
70°	1167.6	605.9	371.4	290.0	250.0	229.5	220.6	217.5
72.5°	352.0	254.7	214.8	193.8	177.9	167.8	160.5	159.7
75°	212.4	176.8	157.0	144.6	134.5	126.4	122.5	121.3
77.5°	148.5	129.9	120.6	111.6	103.9	97.7	94.2	91.5
80°	104.3	95.4	91.1	86.1	81.0	75.2	70.2	67.8
82.5°	69.8	67.8	67.8	64.7	60.5	55.0	45.0	42.6
85°	45.0	44.6	45.4	44.2	41.1	35.3	29.1	27.5
87.5°	20.9	21.3	23.6	23.3	22.5	18.6	14.7	14.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)