

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: P192541

Luminaire Tested: **GLEON-AF-03-LED-E1-5MQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192541
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
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-E1-5MQ-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14917.2 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

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

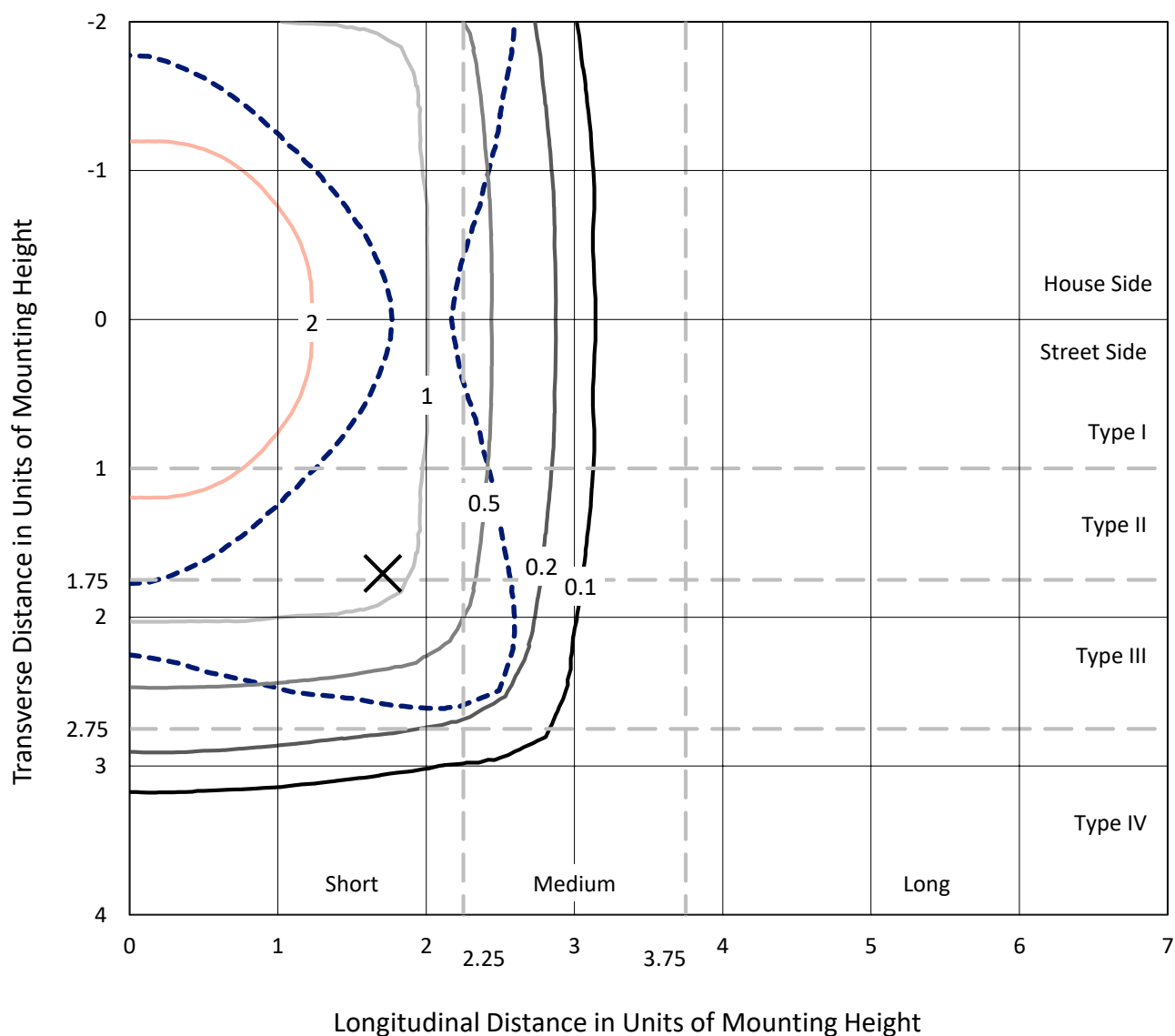


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

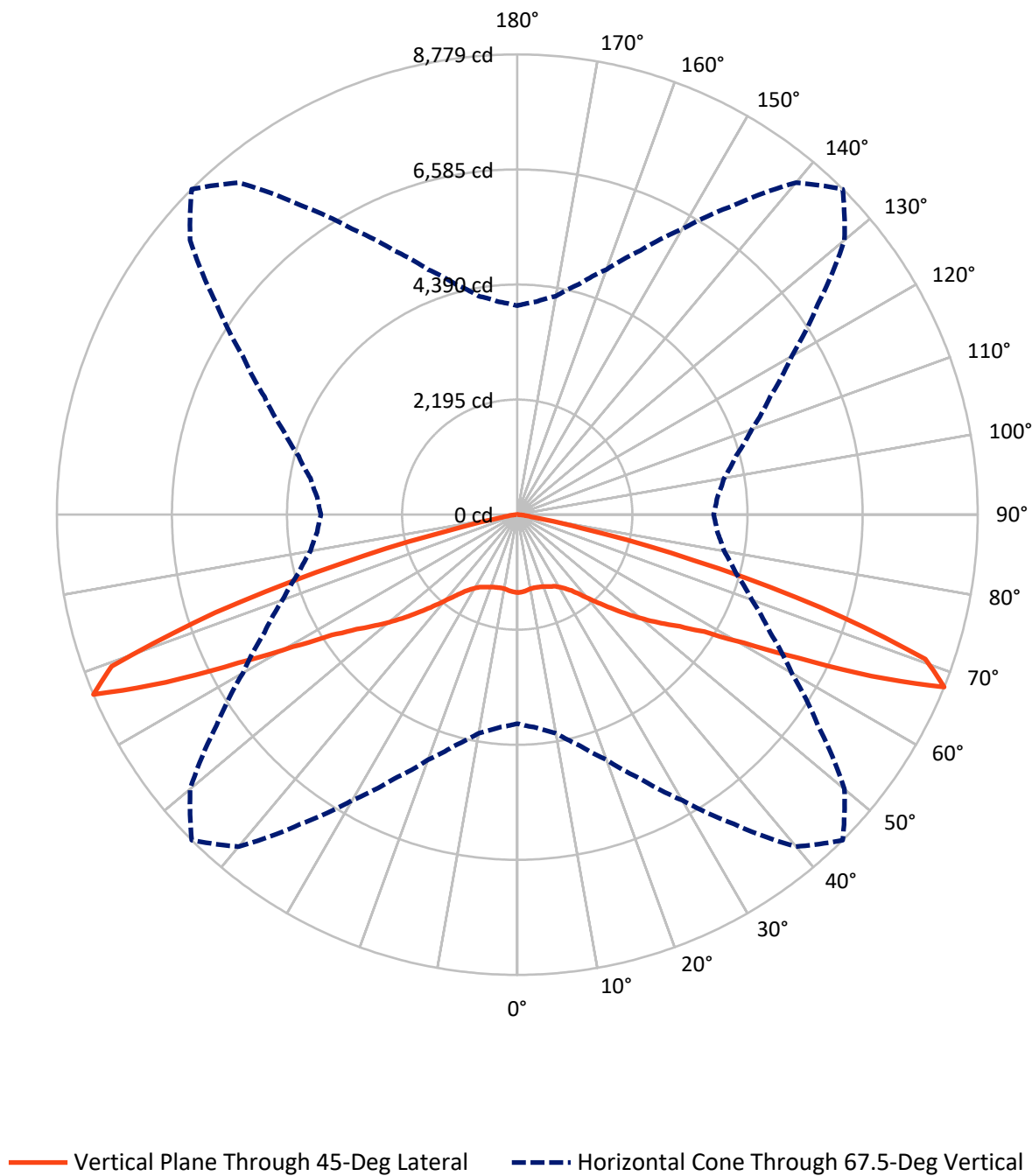


Based on 20 foot mounting height. Maximum calculated value = 3.7 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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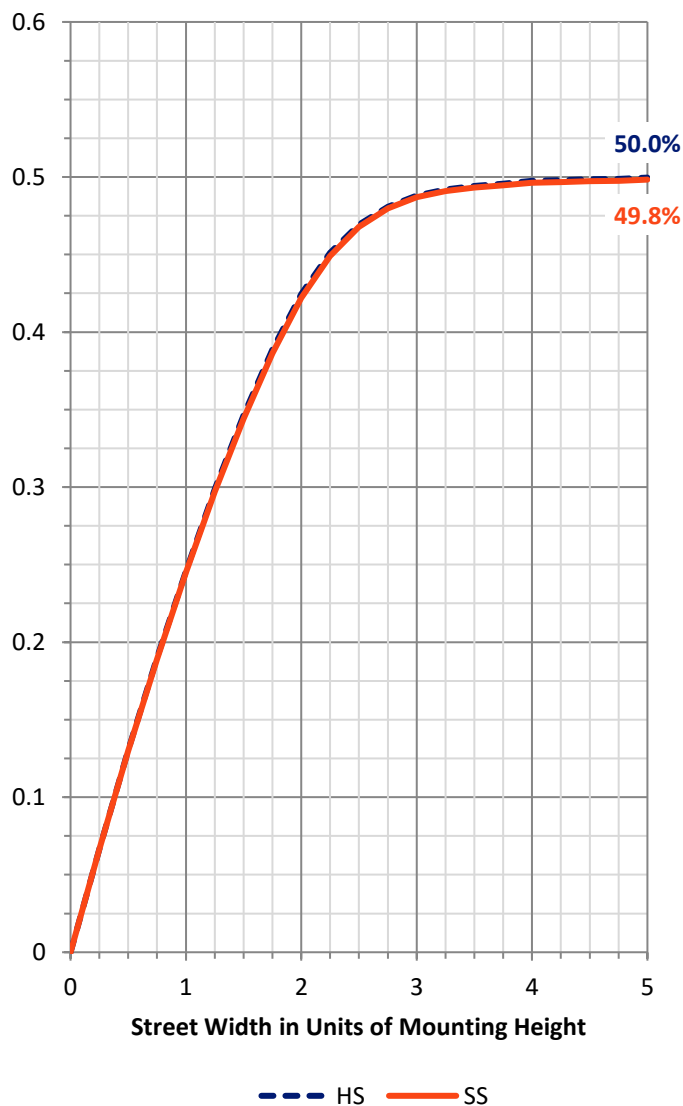
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7458.6	0.0	7458.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7458.6	0.0	7458.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	14917.2	0.0	14917.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.1	0.9
10°-20°	403.7	2.7
20°-30°	686.4	4.6
30°-40°	1122.0	7.5
40°-50°	2002.9	13.4
50°-60°	3377.0	22.6
60°-70°	5240.6	35.1
70°-80°	1841.3	12.3
80°-90°	104.1	0.7
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°	14917.2	100.0
0°-180°	14917.2	100.0

Coefficient of Utilization



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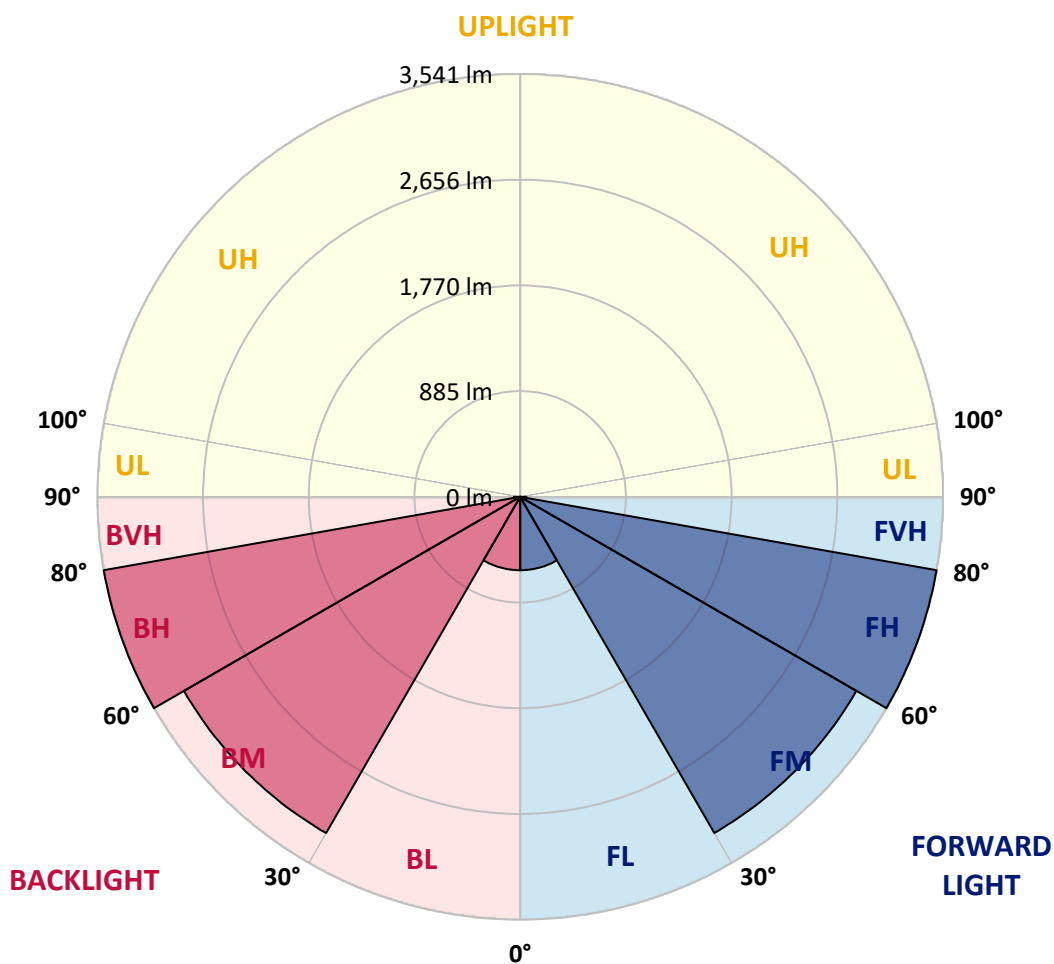
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	614.6	4.1			
FM	(30°-60°)	3251.0	21.8			
FH	(60°-80°)	3541.0	23.7			G2/5000
FVH	(80°-90°)	52.0	0.3			G1/100
BL	(0°-30°)	614.6	4.1	B2/1000		
BM	(30°-60°)	3251.0	21.8	B3/5000		
BH	(60°-80°)	3541.0	23.7	B4/5000		G2/5000
BVH	(80°-90°)	52.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1486.6	1486.6	1486.6	1486.6	1486.6	1486.6	1486.6	1486.6	1486.6	1486.6	1486.6
2.5°	1481.1	1482.4	1482.4	1482.4	1481.8	1481.8	1480.4	1481.8	1481.1	1479.1	1479.7
5°	1468.8	1470.1	1470.1	1469.4	1471.5	1470.7	1468.8	1470.1	1469.4	1468.0	1468.8
7.5°	1450.9	1452.9	1452.9	1452.3	1454.4	1453.5	1452.3	1452.9	1452.9	1450.9	1450.9
10°	1431.0	1432.4	1432.4	1431.7	1435.1	1435.1	1434.5	1436.4	1437.2	1435.1	1433.7
12.5°	1412.5	1414.6	1414.6	1417.3	1420.7	1422.1	1425.5	1428.2	1431.0	1430.3	1427.6
15°	1401.5	1402.9	1405.6	1409.0	1414.6	1419.3	1424.8	1431.0	1436.4	1437.9	1433.7
17.5°	1394.5	1396.7	1400.8	1405.6	1413.2	1421.4	1429.6	1437.9	1445.4	1448.1	1443.4
20°	1392.6	1393.9	1398.1	1406.2	1416.5	1428.9	1440.6	1450.2	1460.5	1464.0	1460.5
22.5°	1396.7	1399.4	1404.2	1413.9	1427.6	1443.4	1457.1	1470.1	1483.0	1489.3	1484.5
25°	1415.2	1417.9	1424.0	1436.4	1451.6	1468.0	1483.8	1498.9	1510.6	1516.7	1513.4
27.5°	1449.6	1452.9	1460.5	1472.9	1489.3	1507.1	1524.2	1536.6	1546.2	1548.3	1544.2
30°	1501.0	1508.6	1517.4	1531.2	1550.4	1565.4	1582.6	1593.5	1605.2	1605.2	1601.8
32.5°	1581.2	1588.7	1598.4	1611.5	1626.6	1642.9	1658.0	1667.7	1680.0	1680.7	1672.4
35°	1701.2	1704.7	1712.9	1721.2	1734.9	1749.4	1762.4	1768.5	1778.7	1779.5	1771.9
37.5°	1859.7	1860.4	1865.9	1868.7	1881.0	1896.7	1909.1	1913.2	1922.9	1921.5	1913.9
40°	2044.2	2047.7	2049.8	2053.8	2066.9	2082.1	2095.0	2097.1	2107.4	2105.3	2095.7
42.5°	2257.7	2259.1	2270.6	2276.9	2289.2	2296.7	2313.2	2315.2	2327.5	2322.1	2311.2
45°	2497.0	2509.3	2520.4	2532.7	2545.7	2554.7	2567.7	2565.0	2573.2	2565.0	2558.8
47.5°	2748.8	2757.7	2782.4	2801.6	2822.9	2830.5	2848.9	2840.7	2848.9	2837.3	2835.3
50°	3025.9	3041.7	3063.0	3084.9	3107.6	3119.9	3143.9	3133.7	3144.6	3133.7	3127.4
52.5°	3299.0	3303.1	3349.8	3382.0	3413.5	3427.9	3442.3	3437.6	3438.2	3437.6	3431.4
55°	3558.2	3567.9	3614.6	3658.4	3713.2	3753.8	3778.5	3775.8	3769.6	3763.4	3753.0
57.5°	3850.6	3860.1	3913.6	3967.9	4030.2	4087.8	4137.9	4189.4	4209.3	4214.7	4192.2
60°	4245.6	4244.9	4316.3	4382.2	4471.3	4557.1	4666.9	4778.7	4907.0	4966.6	4887.7
62.5°	4647.7	4664.1	4767.0	4883.7	5067.5	5246.5	5448.9	5647.8	5850.9	6016.3	5840.6
65°	4599.6	4662.7	4815.7	5079.8	5419.4	5822.8	6259.0	6720.7	7137.8	7424.6	7102.8
67.5°	3986.4	4076.3	4231.9	4553.0	4977.7	5559.3	6292.0	7205.0	8266.2	8779.4	8143.5
70°	2889.5	2991.0	3154.2	3467.7	3888.2	4441.2	5236.9	6333.1	7738.1	8255.3	7554.9
72.5°	1437.9	1492.7	1593.5	1793.2	2111.6	2560.2	3281.8	4335.5	5578.6	6053.3	5413.2
75°	488.4	513.8	531.0	596.1	697.0	873.3	1232.0	1895.4	2891.4	3466.4	2850.3
77.5°	282.0	282.7	294.4	305.9	323.1	342.3	390.4	512.4	886.3	1258.7	917.2
80°	182.5	181.8	191.4	200.3	212.0	221.6	224.3	237.3	273.7	324.5	290.2
82.5°	94.6	106.3	127.7	139.3	161.1	165.3	159.8	155.0	164.0	170.1	174.3
85°	52.1	45.3	68.0	87.9	97.5	98.8	98.8	93.3	96.7	94.6	102.9
87.5°	24.0	22.0	26.8	43.2	46.0	39.2	41.2	36.4	26.1	25.3	28.9
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°	1486.6	1486.6	1486.6	1486.6	1486.6	1486.6	1486.6	1486.6
2.5°	1479.7	1480.4	1480.4	1482.4	1483.0	1484.5	1485.9	1486.6
5°	1468.0	1470.1	1468.8	1470.7	1470.7	1472.2	1472.2	1472.9
7.5°	1450.9	1452.9	1452.9	1452.9	1452.3	1454.4	1454.4	1454.4
10°	1433.1	1434.5	1433.7	1432.4	1431.0	1433.1	1432.4	1431.7
12.5°	1427.6	1424.0	1421.4	1420.1	1417.3	1417.9	1415.9	1415.9
15°	1431.0	1424.8	1420.1	1417.9	1415.2	1413.9	1412.5	1413.2
17.5°	1439.9	1432.4	1426.2	1422.8	1419.3	1417.3	1414.6	1415.2
20°	1455.7	1446.8	1437.9	1431.0	1424.8	1421.4	1419.3	1418.6
22.5°	1479.1	1465.9	1452.9	1442.7	1434.5	1429.6	1427.6	1426.2
25°	1505.8	1491.4	1476.3	1464.6	1456.4	1450.2	1446.0	1446.0
27.5°	1539.4	1527.8	1514.0	1500.2	1492.7	1486.6	1483.8	1482.4
30°	1595.6	1584.7	1573.7	1560.7	1551.1	1544.8	1540.1	1535.9
32.5°	1667.7	1658.8	1649.9	1640.2	1631.4	1623.0	1615.5	1612.1
35°	1769.2	1762.4	1756.2	1745.2	1741.7	1736.9	1732.9	1729.3
37.5°	1909.1	1906.3	1906.3	1894.8	1892.0	1889.9	1885.9	1886.5
40°	2093.0	2095.7	2092.4	2088.2	2086.1	2080.7	2080.7	2085.4
42.5°	2310.4	2312.5	2320.0	2313.2	2320.7	2313.9	2309.7	2313.2
45°	2562.9	2570.5	2585.5	2578.6	2583.4	2571.9	2557.4	2558.1
47.5°	2846.2	2853.1	2859.2	2854.4	2855.2	2836.0	2816.7	2811.9
50°	3140.5	3143.3	3146.6	3139.8	3141.2	3119.9	3097.9	3098.7
52.5°	3431.4	3444.4	3458.2	3439.6	3435.4	3411.5	3380.6	3368.3
55°	3764.1	3782.5	3766.8	3734.6	3702.4	3670.1	3629.6	3622.7
57.5°	4174.2	4142.8	4093.4	4032.3	3987.8	3942.4	3901.3	3884.1
60°	4745.0	4626.4	4537.2	4446.7	4389.7	4334.1	4279.9	4271.7
62.5°	5551.8	5346.7	5168.9	4981.6	4828.7	4709.4	4614.0	4587.2
65°	6562.9	6078.0	5657.5	5264.9	4924.1	4666.9	4505.0	4433.6
67.5°	6997.8	6040.2	5319.2	4762.2	4316.3	4004.9	3830.0	3742.7
70°	6149.3	5009.2	4225.0	3667.4	3261.3	2929.2	2770.7	2677.4
72.5°	4230.5	3186.4	2519.6	2056.6	1732.2	1454.4	1344.6	1336.4
75°	1899.6	1258.1	867.1	668.1	562.4	489.2	466.4	449.4
77.5°	531.6	393.2	350.5	327.9	305.9	280.6	271.0	273.0
80°	258.6	244.2	234.6	220.1	200.3	179.0	169.5	173.5
82.5°	171.5	169.5	175.6	165.3	136.5	116.0	97.5	89.1
85°	104.3	105.7	107.7	108.3	91.9	64.5	43.9	49.3
87.5°	41.2	47.3	51.5	53.5	50.0	30.9	24.7	25.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)