

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: P192731

Luminaire Tested: **GLEON-AF-03-LED-E1-RW-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192731
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
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-RW-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11837.1 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 96
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



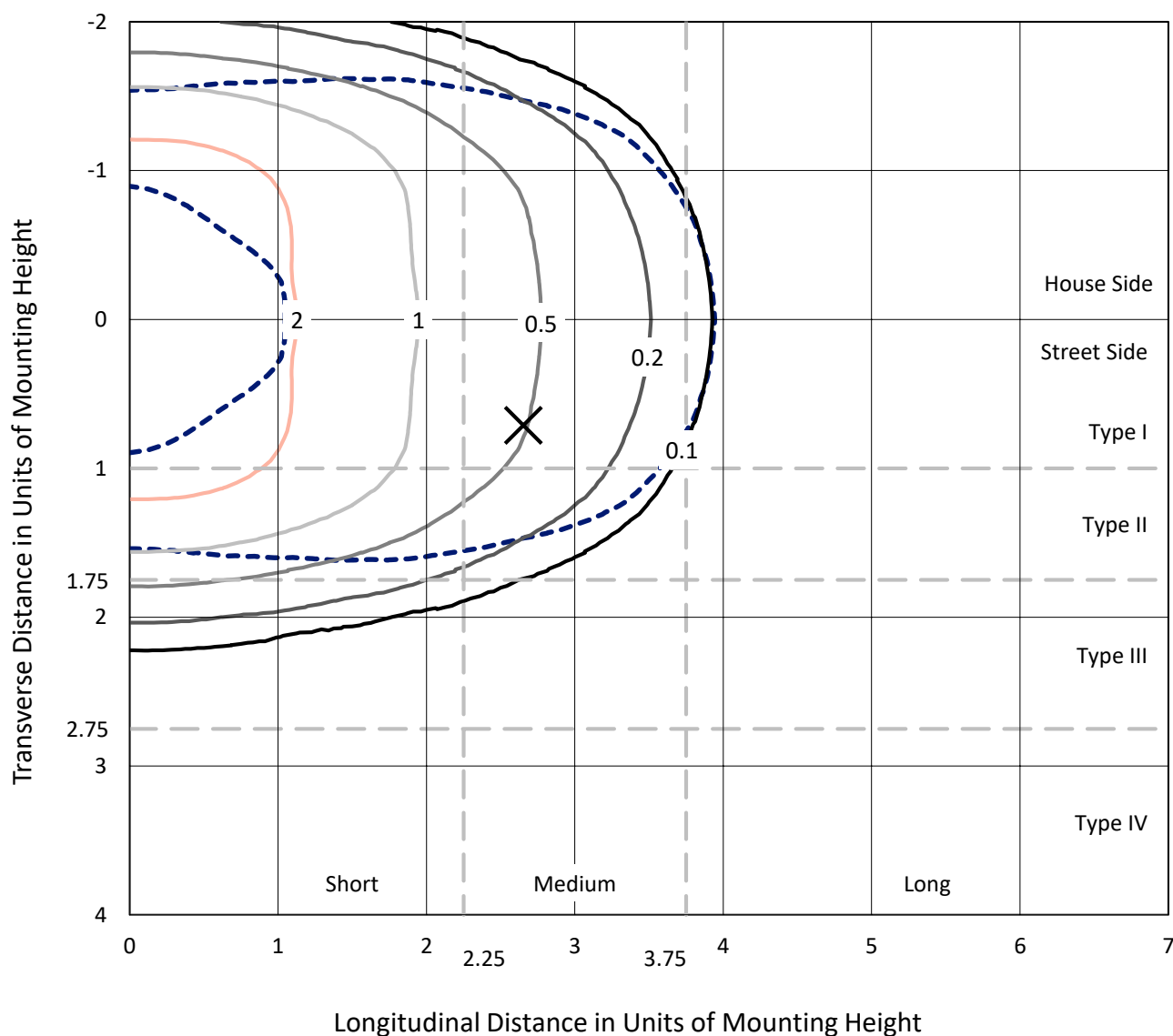
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

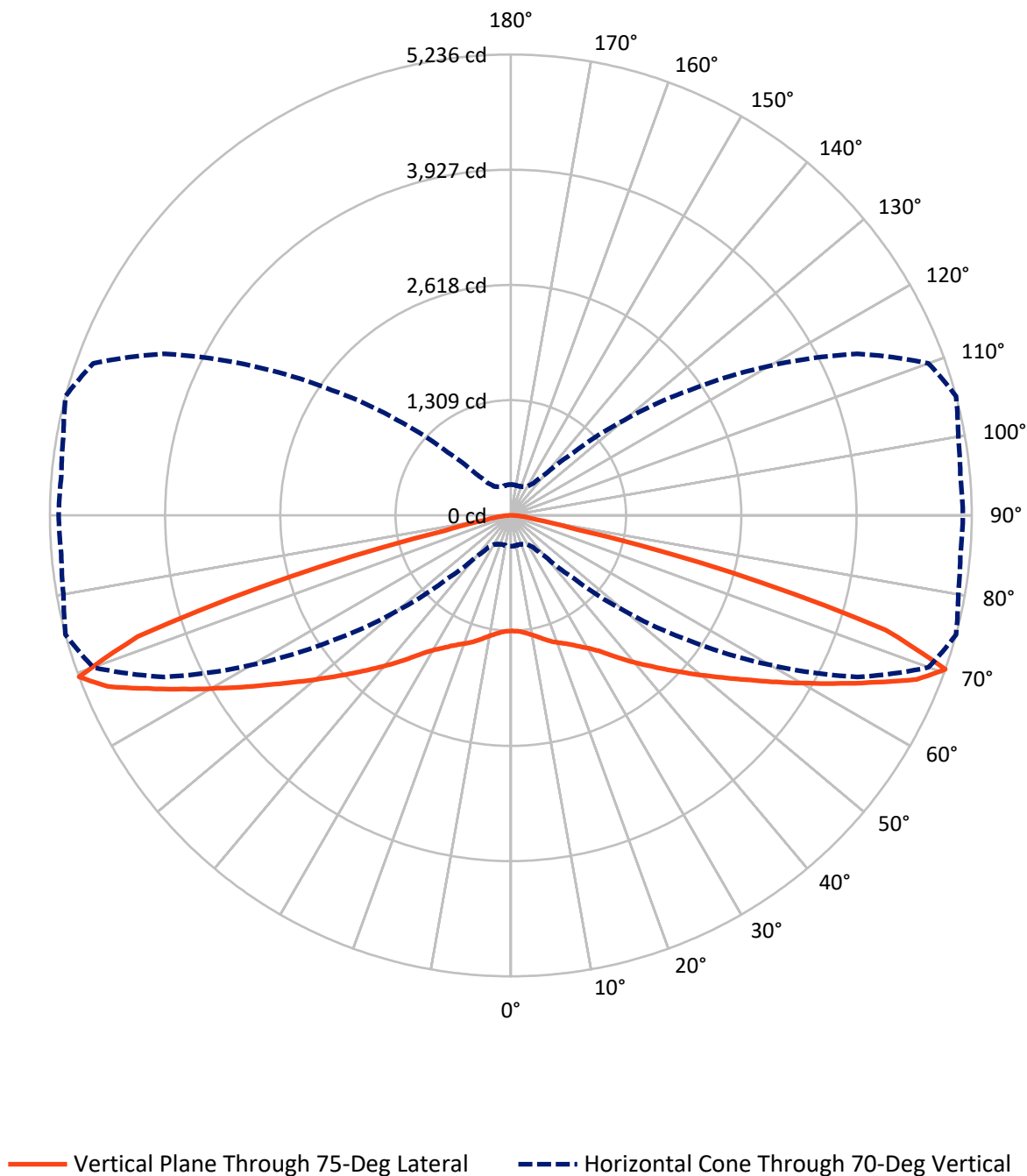


Based on 20 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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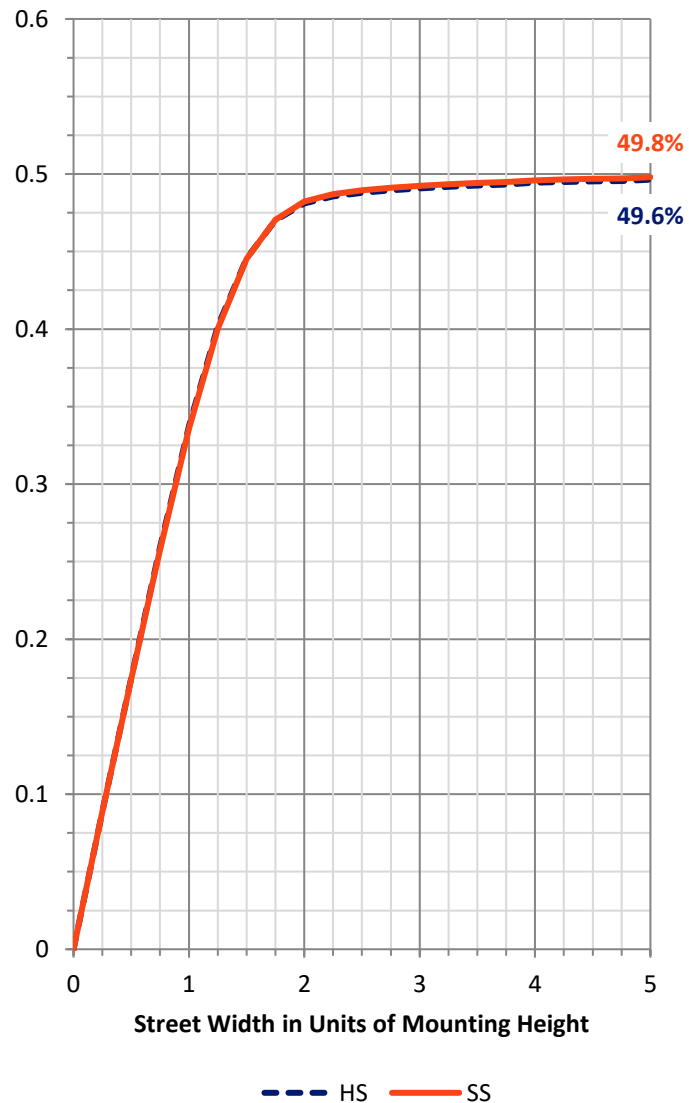
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5918.6	0.0	5918.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5918.6	0.0	5918.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	11837.1	0.0	11837.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.9	1.1
10°-20°	391.3	3.3
20°-30°	736.5	6.2
30°-40°	1304.1	11.0
40°-50°	2180.9	18.4
50°-60°	3039.1	25.7
60°-70°	2818.2	23.8
70°-80°	1123.1	9.5
80°-90°	118.0	1.0
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°	11837.1	100.0
0°-180°	11837.1	100.0

Coefficient of Utilization



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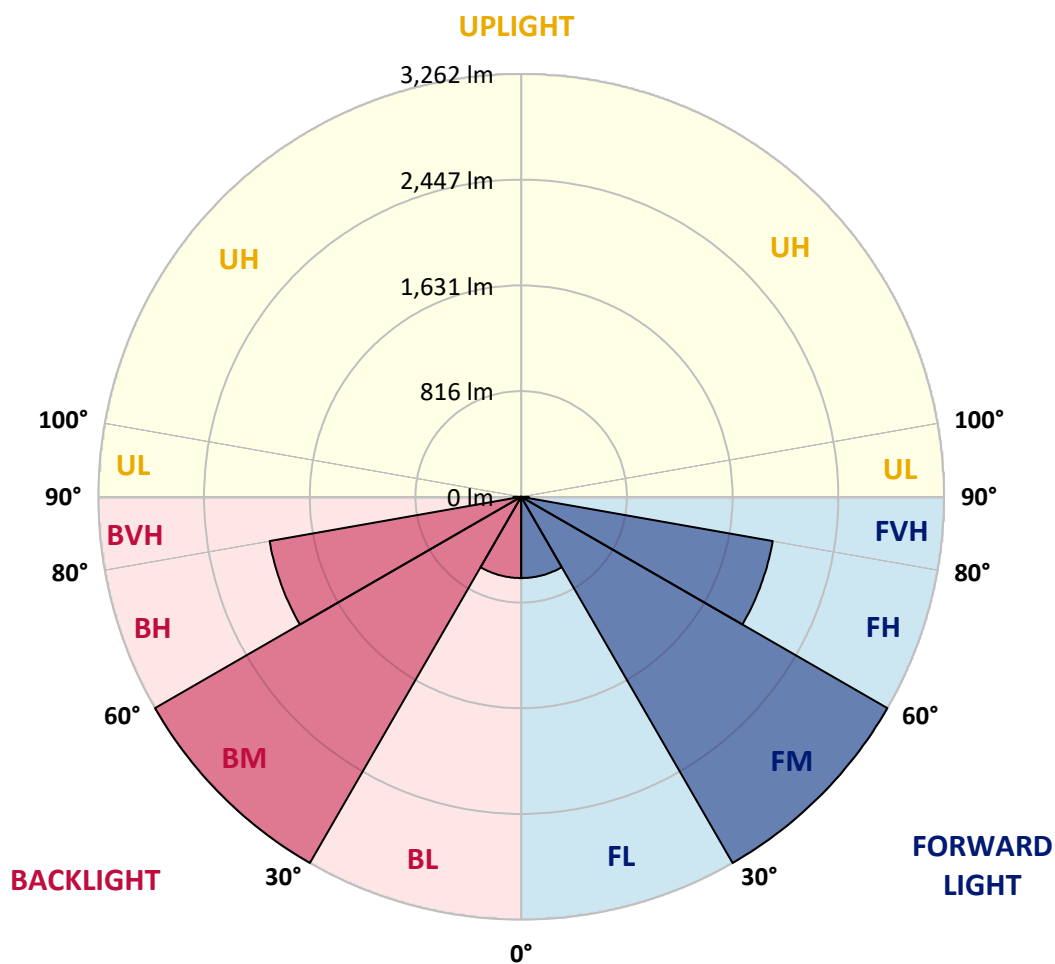
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	626.8	5.3			
FM	(30°-60°)	3262.0	27.6			
FH	(60°-80°)	1970.7	16.6			G2/5000
FVH	(80°-90°)	59.0	0.5			G1/100
BL	(0°-30°)	626.8	5.3	B2/1000		
BM	(30°-60°)	3262.0	27.6	B3/5000		
BH	(60°-80°)	1970.7	16.6	B3/2500		G3/2500
BVH	(80°-90°)	59.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1313.0	1313.0	1313.0	1313.0	1313.0	1313.0	1313.0	1313.0	1313.0	1313.0	1313.0
2.5°	1310.8	1309.7	1310.8	1310.2	1311.3	1311.3	1312.4	1314.7	1314.7	1316.3	1315.8
5°	1297.9	1297.4	1299.0	1300.7	1302.4	1305.7	1309.2	1314.2	1318.1	1320.8	1323.6
7.5°	1272.8	1272.8	1274.9	1278.9	1282.8	1290.1	1297.9	1308.0	1318.1	1326.4	1333.7
10°	1252.0	1253.2	1255.9	1262.7	1269.4	1280.5	1291.2	1305.7	1319.8	1333.7	1344.9
12.5°	1239.8	1241.4	1246.4	1256.5	1267.7	1282.8	1299.0	1317.4	1333.2	1349.9	1361.2
15°	1243.7	1244.8	1252.0	1264.3	1278.9	1297.9	1319.8	1341.6	1360.1	1377.9	1393.0
17.5°	1265.4	1267.2	1275.5	1289.5	1304.7	1327.0	1350.5	1375.1	1398.1	1418.1	1436.6
20°	1304.7	1306.3	1316.9	1332.1	1349.9	1372.9	1396.4	1422.1	1447.8	1469.1	1489.8
22.5°	1360.1	1362.8	1372.9	1388.0	1408.2	1432.7	1460.7	1488.1	1512.7	1532.4	1550.8
25°	1432.7	1439.0	1448.4	1465.1	1486.5	1508.9	1539.0	1567.0	1590.5	1609.0	1622.4
27.5°	1535.6	1544.1	1551.4	1567.6	1588.3	1609.5	1639.8	1664.3	1686.8	1704.7	1714.8
30°	1672.2	1680.5	1687.8	1703.5	1722.6	1742.6	1771.2	1793.1	1807.0	1821.1	1820.5
32.5°	1837.7	1846.7	1849.5	1866.2	1886.0	1907.6	1933.5	1945.8	1957.0	1958.6	1948.5
35°	2022.9	2027.5	2038.7	2060.9	2083.3	2101.3	2125.8	2132.0	2132.0	2123.7	2101.3
37.5°	2226.0	2228.8	2244.5	2269.7	2292.6	2311.1	2327.9	2340.2	2334.0	2316.1	2278.6
40°	2448.7	2453.8	2476.2	2498.4	2524.2	2541.6	2559.5	2561.7	2555.6	2529.3	2478.3
42.5°	2661.2	2665.7	2688.1	2723.4	2756.9	2780.9	2797.8	2801.2	2781.5	2757.4	2694.4
45°	2844.2	2855.9	2885.1	2926.4	2975.1	3009.2	3032.2	3041.7	3024.4	2993.0	2919.7
47.5°	2989.2	3000.8	3042.3	3091.5	3151.9	3207.3	3245.3	3265.4	3261.0	3237.5	3157.5
50°	3095.5	3106.6	3151.4	3211.7	3282.2	3351.1	3416.0	3464.1	3480.9	3470.2	3397.0
52.5°	3107.7	3126.1	3178.8	3259.9	3351.6	3445.6	3538.0	3619.6	3674.9	3683.3	3629.1
55°	2936.1	2954.4	3027.1	3147.4	3283.9	3437.2	3584.9	3722.6	3831.6	3887.6	3859.0
57.5°	2530.9	2564.0	2640.6	2781.5	2982.4	3211.7	3447.3	3691.8	3913.8	4062.2	4090.6
60°	1939.6	1978.8	2055.9	2205.8	2429.7	2703.2	3017.6	3379.1	3771.2	4104.7	4303.8
62.5°	1244.3	1281.2	1362.3	1492.6	1675.0	1971.5	2308.8	2737.9	3264.8	3791.4	4265.8
65°	639.5	659.6	702.1	780.9	923.1	1144.6	1447.2	1875.2	2477.8	3127.3	3813.1
67.5°	405.1	408.9	418.5	429.6	466.0	542.7	683.6	950.4	1446.1	2123.7	2926.4
70°	350.1	350.1	345.7	344.0	348.5	359.1	381.0	443.0	610.3	1008.1	1687.8
72.5°	320.5	317.2	309.4	303.2	302.1	302.1	306.6	316.1	343.0	410.6	660.7
75°	295.4	285.8	275.3	268.0	265.2	262.3	261.7	263.6	269.1	279.7	315.5
77.5°	264.6	252.3	240.1	232.7	229.3	225.4	222.2	218.2	215.3	218.7	234.4
80°	227.7	213.7	204.2	199.7	196.3	190.7	183.4	176.8	170.7	169.5	179.0
82.5°	183.4	167.2	167.8	169.5	163.4	155.4	147.7	140.4	129.8	124.2	129.8
85°	148.3	139.9	135.9	146.6	137.6	125.8	113.5	100.7	83.9	70.5	76.6
87.5°	57.6	57.6	86.2	132.6	119.2	97.4	83.4	71.0	44.2	34.1	34.6
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°	1313.0	1313.0	1313.0	1313.0	1313.0	1313.0	1313.0	1313.0
2.5°	1315.3	1316.3	1315.8	1315.3	1315.3	1314.7	1315.3	1315.3
5°	1325.4	1328.1	1328.1	1329.2	1329.2	1329.8	1330.3	1329.8
7.5°	1340.4	1345.4	1348.8	1352.7	1353.2	1353.8	1355.0	1353.8
10°	1355.6	1365.6	1372.9	1380.2	1383.5	1384.7	1385.7	1385.7
12.5°	1374.6	1388.5	1401.4	1414.3	1420.5	1423.7	1423.7	1426.1
15°	1405.8	1419.9	1435.0	1452.3	1463.0	1468.6	1470.2	1470.2
17.5°	1450.1	1462.4	1475.2	1492.1	1505.5	1512.7	1514.5	1513.9
20°	1501.5	1513.4	1520.6	1531.2	1543.0	1551.4	1553.5	1553.5
22.5°	1560.3	1567.0	1568.1	1571.4	1581.0	1592.1	1597.3	1598.4
25°	1625.2	1626.9	1622.4	1622.4	1628.5	1639.2	1644.3	1644.8
27.5°	1709.2	1700.7	1689.4	1685.7	1689.4	1701.8	1707.9	1710.2
30°	1813.7	1793.6	1767.9	1753.8	1751.7	1767.9	1779.1	1780.7
32.5°	1933.5	1904.4	1870.2	1841.7	1834.5	1844.6	1858.0	1857.4
35°	2075.5	2040.9	1999.5	1963.1	1946.4	1956.4	1975.4	1977.6
37.5°	2239.5	2194.2	2146.6	2100.7	2074.4	2077.2	2097.3	2104.2
40°	2422.4	2363.6	2303.8	2242.2	2204.8	2197.5	2222.2	2226.0
42.5°	2618.2	2542.7	2467.2	2391.0	2342.9	2331.8	2360.3	2358.6
45°	2826.9	2730.6	2642.2	2558.3	2501.3	2484.4	2507.9	2507.9
47.5°	3051.2	2932.6	2827.4	2732.3	2670.2	2646.2	2668.5	2670.2
50°	3288.9	3163.0	3039.5	2933.7	2859.4	2828.5	2857.6	2862.1
52.5°	3525.6	3403.1	3278.4	3157.5	3067.5	3030.0	3063.5	3078.1
55°	3765.6	3645.3	3526.2	3408.2	3301.3	3257.1	3292.8	3311.3
57.5°	4019.1	3907.7	3794.1	3674.9	3572.0	3503.3	3541.3	3565.9
60°	4316.1	4221.0	4103.0	3971.5	3867.4	3797.6	3819.3	3841.1
62.5°	4551.0	4588.1	4487.9	4335.7	4202.0	4112.5	4133.8	4156.7
65°	4437.6	4816.2	4905.2	4751.3	4566.2	4426.8	4417.9	4429.7
67.5°	3709.2	4444.7	4981.2	5127.9	4972.9	4779.3	4743.5	4760.9
70°	2481.2	3397.5	4344.0	5049.0	5236.4	5161.4	5126.2	5136.9
72.5°	1191.6	1978.8	2947.2	3884.1	4454.8	4716.7	4800.7	4841.4
75°	435.8	785.5	1420.5	2140.4	2584.1	2991.3	3257.1	3365.6
77.5°	263.0	317.2	453.8	683.1	773.7	866.0	830.3	848.1
80°	194.7	219.8	249.0	279.7	289.7	289.7	278.6	269.7
82.5°	136.5	152.8	166.7	183.4	187.9	179.6	147.7	117.5
85°	87.9	95.0	101.3	111.9	109.0	104.1	69.9	62.1
87.5°	40.3	45.9	48.1	53.1	51.0	48.6	34.6	29.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)