

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: P200631

Luminaire Tested: **GWC-AF-01-LED-E1-SL4-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200631
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-01-LED-E1-SL4-8030
Description: GALLEON WALL LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4929 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 59
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

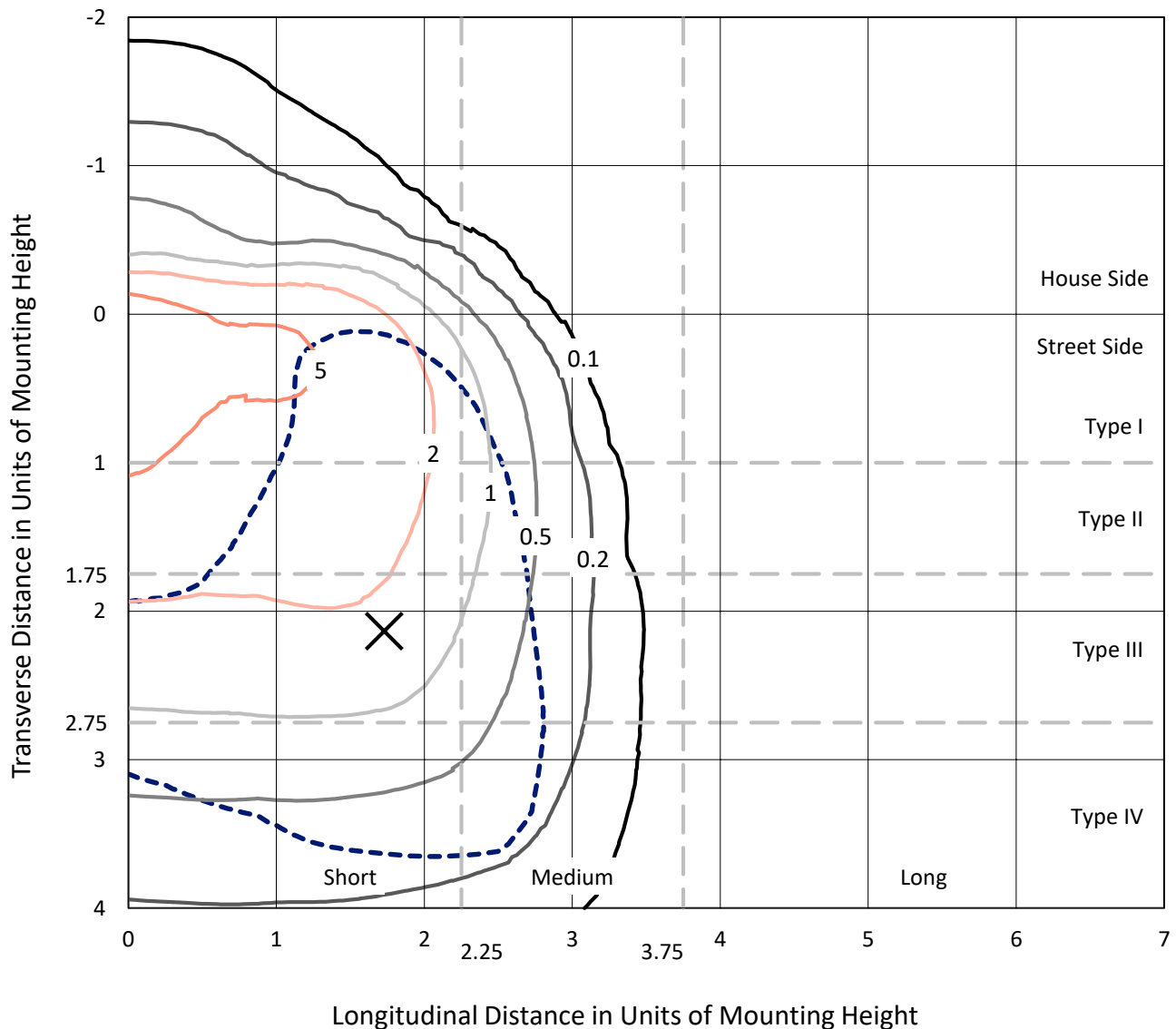


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

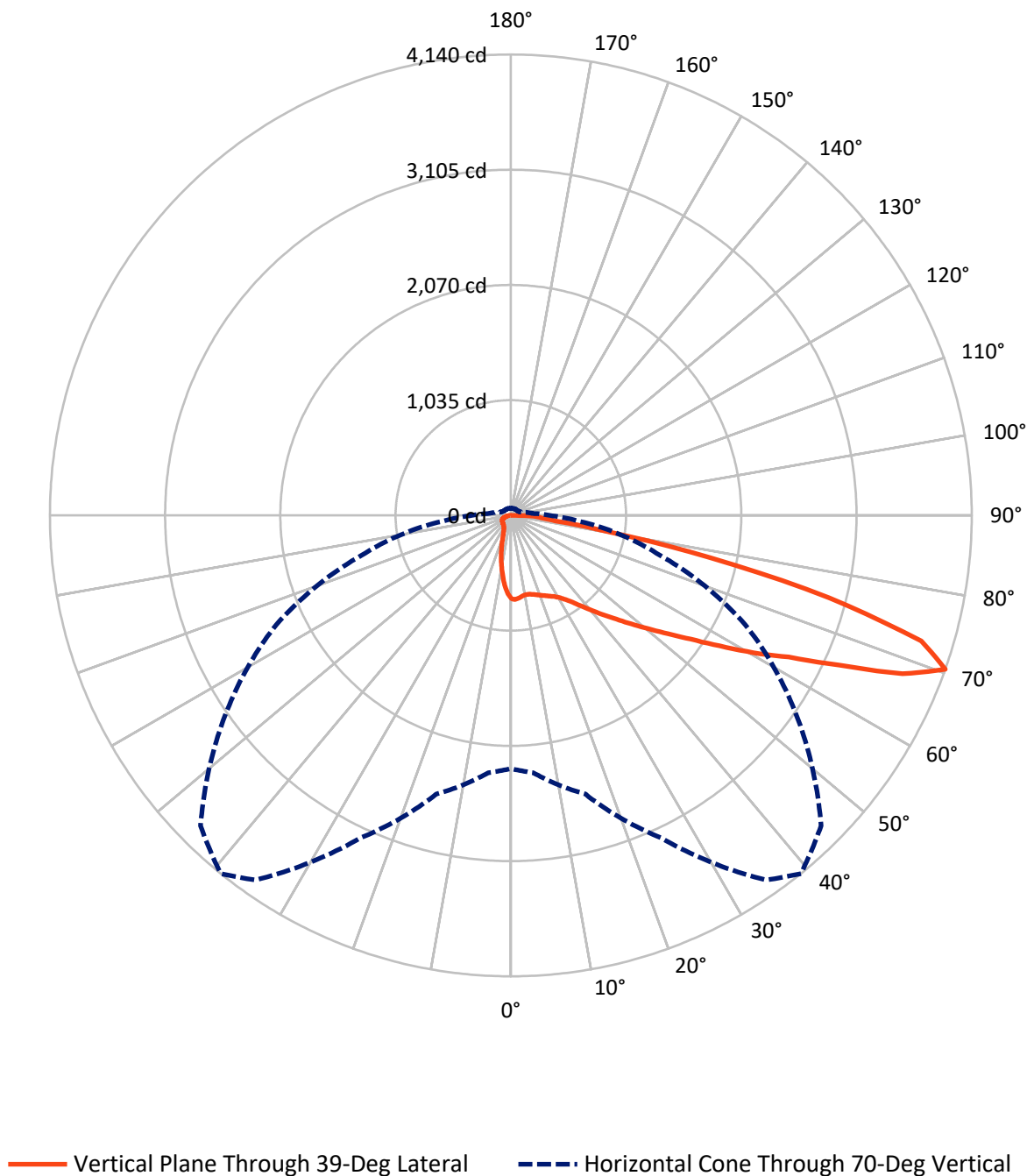


Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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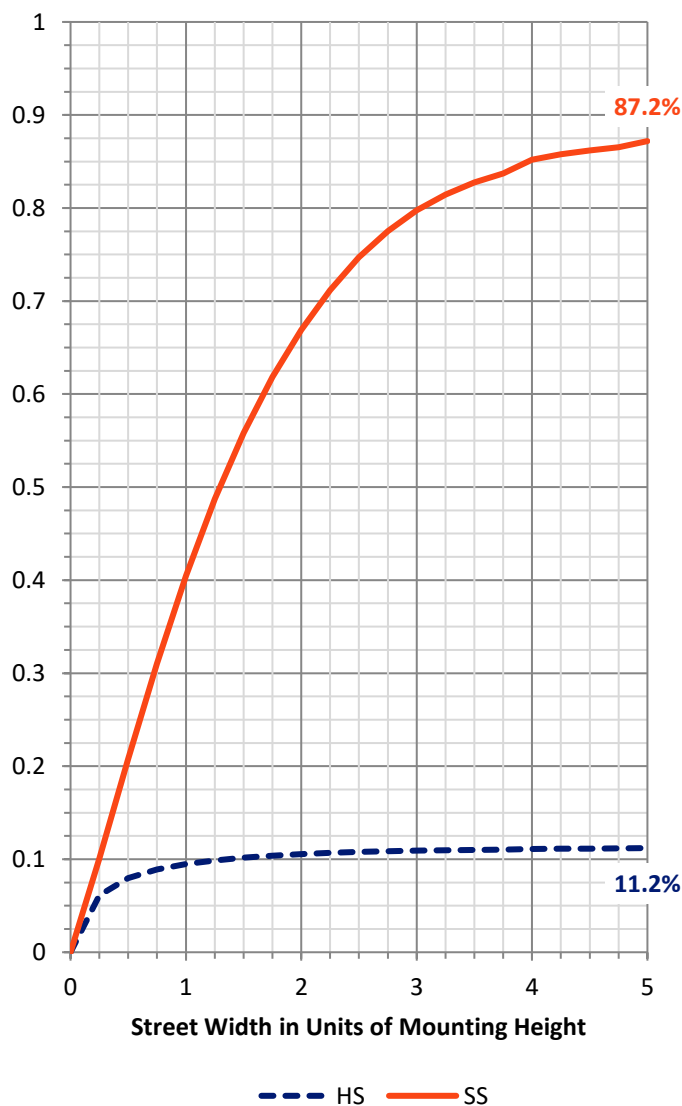
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	560.6	0.0	560.6
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	4368.4	0.0	4368.4
	% Fixture	88.6	0.0	88.6
Total	Lumens	4929.0	0.0	4929.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	1.3
10°-20°	160.5	3.3
20°-30°	249.9	5.1
30°-40°	389.4	7.9
40°-50°	653.7	13.3
50°-60°	1038.4	21.1
60°-70°	1385.1	28.1
70°-80°	836.4	17.0
80°-90°	151.4	3.1
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°	4929.0	100.0
0°-180°	4929.0	100.0

Coefficient of Utilization



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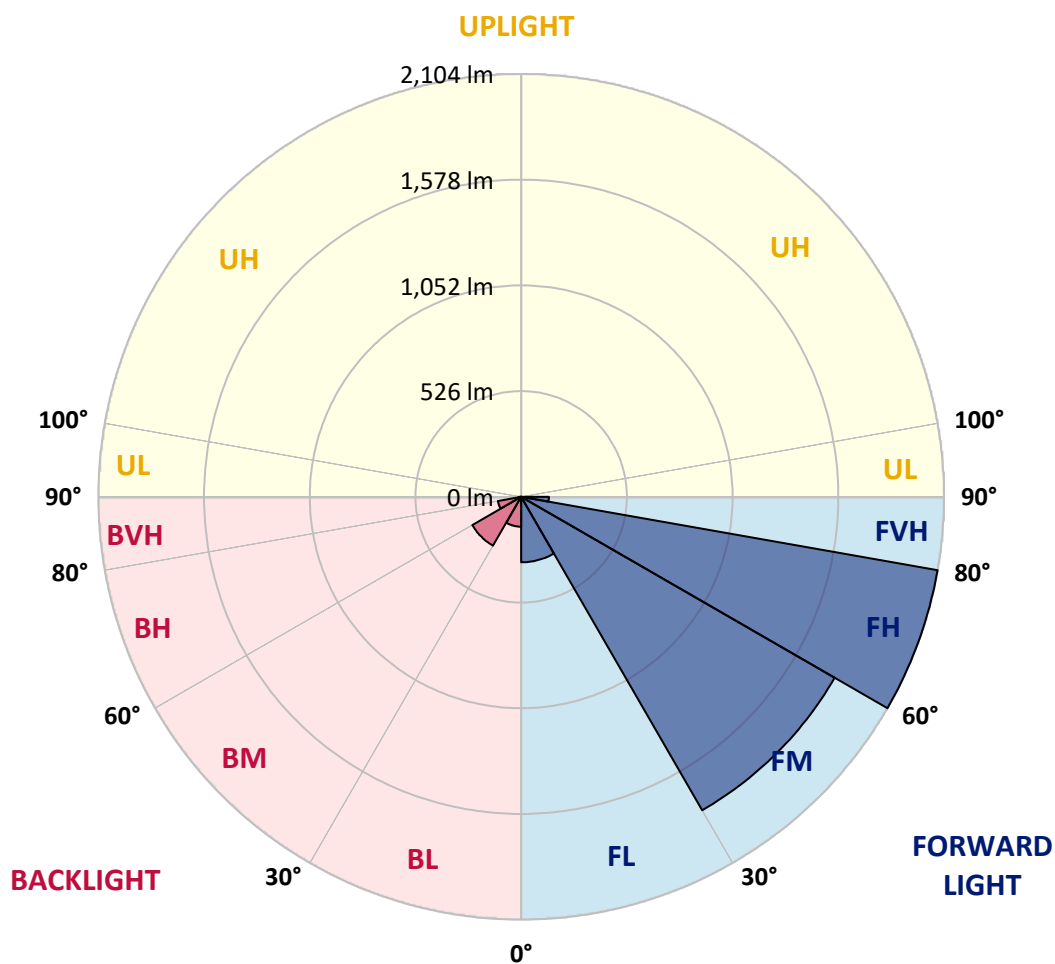
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	326.0	6.6			
FM	(30°-60°)	1800.9	36.5			
FH	(60°-80°)	2103.8	42.7			G2/5000
FVH	(80°-90°)	137.7	2.8			G2/225
BL	(0°-30°)	148.7	3.0	B1/500		
BM	(30°-60°)	280.5	5.7	B1/1000		
BH	(60°-80°)	117.7	2.4	B1/500		G1/500
BVH	(80°-90°)	13.6	0.3			G1/100
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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3
2.5°	762.8	762.6	760.6	759.1	757.8	757.3	758.3	754.6	751.3	747.3	743.0
5°	757.1	756.8	753.6	750.6	747.5	746.5	746.3	739.5	735.5	729.5	721.5
7.5°	750.8	749.6	745.3	740.3	735.0	732.5	730.0	721.2	716.7	710.7	701.4
10°	744.3	742.8	738.8	733.8	728.8	725.0	720.7	712.2	707.5	702.9	692.2
12.5°	737.5	736.3	735.3	733.0	729.5	726.2	723.0	715.7	710.7	705.4	692.9
15°	736.5	736.0	738.3	739.8	737.8	735.8	732.3	726.0	720.7	715.5	699.2
17.5°	744.5	744.3	750.1	754.1	753.1	749.6	744.8	737.8	733.5	729.0	708.7
20°	762.1	763.3	770.4	775.6	770.6	765.6	757.8	748.0	745.8	743.8	718.5
22.5°	795.2	796.4	801.4	803.4	790.4	783.1	772.4	759.8	758.3	759.8	730.3
25°	846.8	845.5	844.8	837.3	813.5	802.2	788.4	775.4	776.1	782.9	746.8
27.5°	915.2	908.4	897.9	875.4	837.5	825.0	808.2	796.2	800.9	814.0	771.6
30°	986.1	978.6	954.3	917.5	869.1	855.3	836.5	823.0	835.5	856.1	804.7
32.5°	1051.8	1050.8	1015.2	967.8	912.7	900.7	881.9	866.6	886.9	918.2	854.3
35°	1123.5	1125.7	1083.1	1026.2	971.6	959.1	945.5	934.0	961.1	1004.2	926.2
37.5°	1200.1	1204.6	1154.3	1090.1	1038.7	1033.5	1025.5	1020.5	1062.3	1121.9	1026.7
40°	1302.6	1298.1	1228.2	1162.3	1121.2	1120.9	1118.4	1124.5	1194.1	1275.8	1155.8
42.5°	1412.4	1399.1	1306.6	1239.7	1211.7	1220.2	1225.2	1249.8	1352.8	1462.8	1313.2
45°	1530.7	1500.9	1388.1	1321.7	1312.2	1330.2	1347.2	1400.6	1539.5	1675.5	1485.6
47.5°	1625.2	1596.3	1472.3	1407.6	1428.4	1455.7	1488.6	1573.0	1748.5	1895.3	1655.7
50°	1699.6	1680.8	1557.2	1507.9	1556.5	1598.6	1652.2	1768.3	1966.0	2109.3	1813.4
52.5°	1771.8	1757.7	1642.9	1610.6	1706.9	1765.0	1837.9	1977.8	2189.0	2319.8	1945.9
55°	1836.9	1826.9	1735.2	1738.7	1883.8	1959.5	2051.2	2216.3	2432.1	2507.5	2058.2
57.5°	1910.3	1897.6	1840.4	1899.3	2111.1	2209.3	2328.6	2484.5	2660.1	2674.4	2143.7
60°	1984.3	1973.2	1957.2	2084.8	2399.8	2503.0	2616.0	2744.3	2891.4	2804.0	2138.6
62.5°	2048.4	2049.7	2078.0	2279.5	2682.4	2802.0	2939.8	3066.6	3100.7	2826.5	1980.5
65°	2157.2	2177.0	2261.4	2555.1	3080.4	3240.3	3409.4	3389.1	3158.6	2615.8	1641.4
67.5°	2286.5	2321.3	2492.5	2922.5	3583.4	3795.6	3861.0	3462.1	2926.8	2126.4	1170.1
70°	2273.5	2321.3	2592.2	3196.4	3997.9	4140.2	3941.7	3133.3	2324.1	1389.1	621.5
72.5°	2018.9	2087.3	2389.0	3070.9	3867.3	3854.8	3422.0	2335.9	1380.8	557.8	242.8
75°	1538.7	1607.9	1867.5	2426.1	3056.6	2951.3	2428.1	1290.4	524.0	221.5	153.1
77.5°	885.1	938.8	1139.2	1487.8	1939.2	1831.2	1351.5	573.9	255.1	154.4	119.5
80°	494.2	524.0	645.8	754.8	950.3	871.1	604.7	356.6	190.5	112.0	92.2
82.5°	390.7	417.3	522.3	476.1	434.0	400.5	347.3	317.5	152.1	70.7	55.1
85°	341.3	366.6	442.1	374.9	296.5	271.9	282.2	312.5	118.3	42.6	47.1
87.5°	316.3	350.1	393.9	288.9	230.8	204.5	260.4	342.6	38.1	26.6	19.0
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°	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3
2.5°	739.3	735.3	728.8	723.0	714.0	709.2	703.9	700.2	697.2	694.7	698.7
5°	716.5	709.0	695.2	680.4	662.8	649.1	637.5	626.8	619.2	614.2	617.7
7.5°	694.9	682.6	661.1	634.3	604.2	578.6	557.6	539.0	526.3	518.0	521.3
10°	682.6	667.4	634.0	591.9	547.6	507.7	474.6	446.1	426.3	415.0	416.8
12.5°	679.6	659.8	613.7	555.8	495.2	439.8	393.2	353.6	325.8	311.2	311.7
15°	681.9	656.6	594.7	521.3	444.6	374.7	316.5	268.4	236.1	219.5	219.3
17.5°	685.6	654.1	574.6	483.9	393.2	312.0	247.1	200.0	171.4	158.1	157.1
20°	689.7	650.1	552.1	443.6	339.8	253.9	193.5	156.6	138.6	131.3	130.8
22.5°	695.4	646.6	528.8	401.0	287.4	206.7	159.1	134.3	124.8	121.0	120.5
25°	704.7	644.8	504.0	356.6	240.3	172.9	138.6	123.3	117.8	115.3	115.0
27.5°	720.2	647.3	480.7	313.5	202.0	150.1	127.1	117.8	113.8	111.5	111.3
30°	740.3	655.1	456.1	272.7	172.2	134.6	120.0	114.0	110.8	108.5	108.5
32.5°	773.6	668.1	430.3	237.3	150.9	123.8	114.8	110.8	108.0	106.3	106.0
35°	822.7	692.7	406.2	208.0	135.6	116.0	110.3	107.3	105.3	104.3	104.3
37.5°	894.1	731.5	384.9	186.9	126.3	110.8	106.0	103.7	102.5	102.5	102.5
40°	990.1	785.1	367.6	172.9	121.0	107.0	102.7	101.0	100.2	100.5	100.5
42.5°	1108.7	854.8	356.1	163.1	118.5	104.8	100.5	99.0	98.2	98.0	98.2
45°	1243.7	934.0	354.9	155.9	116.0	103.2	99.0	97.5	96.0	95.0	95.0
47.5°	1375.1	1014.4	365.1	153.4	113.3	101.5	97.7	96.2	94.0	91.7	91.7
50°	1491.1	1082.9	378.9	154.4	112.3	99.0	95.7	95.0	91.5	89.0	88.7
52.5°	1583.3	1135.5	390.2	157.4	113.3	97.2	93.2	93.5	89.7	87.0	86.7
55°	1657.2	1170.1	387.2	160.4	115.5	96.2	91.0	91.5	88.5	85.7	85.7
57.5°	1689.6	1157.3	353.9	157.9	117.3	96.5	89.2	91.2	88.7	86.2	86.2
60°	1620.1	1043.8	291.5	146.9	115.0	95.7	88.5	92.2	92.0	89.5	89.2
62.5°	1410.1	840.5	226.0	130.6	107.3	92.0	86.5	92.0	94.7	94.0	93.7
65°	1086.9	598.7	172.7	113.0	96.7	85.7	81.2	86.2	90.0	91.0	90.7
67.5°	705.4	366.9	133.1	96.5	85.0	78.4	74.4	76.7	77.4	77.4	76.9
70°	346.8	197.5	106.0	81.2	72.9	70.7	68.4	67.2	65.9	64.9	64.9
72.5°	171.2	129.1	87.2	68.7	62.9	61.9	61.4	59.9	58.9	57.6	57.1
75°	126.6	105.0	74.2	57.9	54.1	53.1	54.1	52.9	52.6	51.6	51.1
77.5°	104.0	89.5	63.9	49.6	46.4	44.6	46.1	46.4	46.6	45.1	44.6
80°	84.5	75.7	53.4	41.1	38.1	36.8	37.8	39.8	40.3	38.1	37.1
82.5°	60.9	61.9	43.1	32.1	29.6	28.6	30.6	33.1	33.6	30.3	29.6
85°	51.1	51.6	33.1	22.8	20.3	18.8	22.1	24.6	26.3	23.1	22.3
87.5°	21.3	30.3	19.0	12.8	11.3	9.8	11.8	13.0	15.8	14.5	14.3
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)