Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P452477

Luminaire Tested: **GALN-SA3B-830-U-T4FT-HSS**

Issue Date: 1/4/2021

Report Generated By 670248863

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P452477
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab:	INNOVATION CENTER
Issue Date:	1/4/2021
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SA3B-830-U-T4FT-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	9720 lumens
Efficiency:	N/A
Efficacy:	80.3 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G2

Input Watts (W):	121
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:	24 FT

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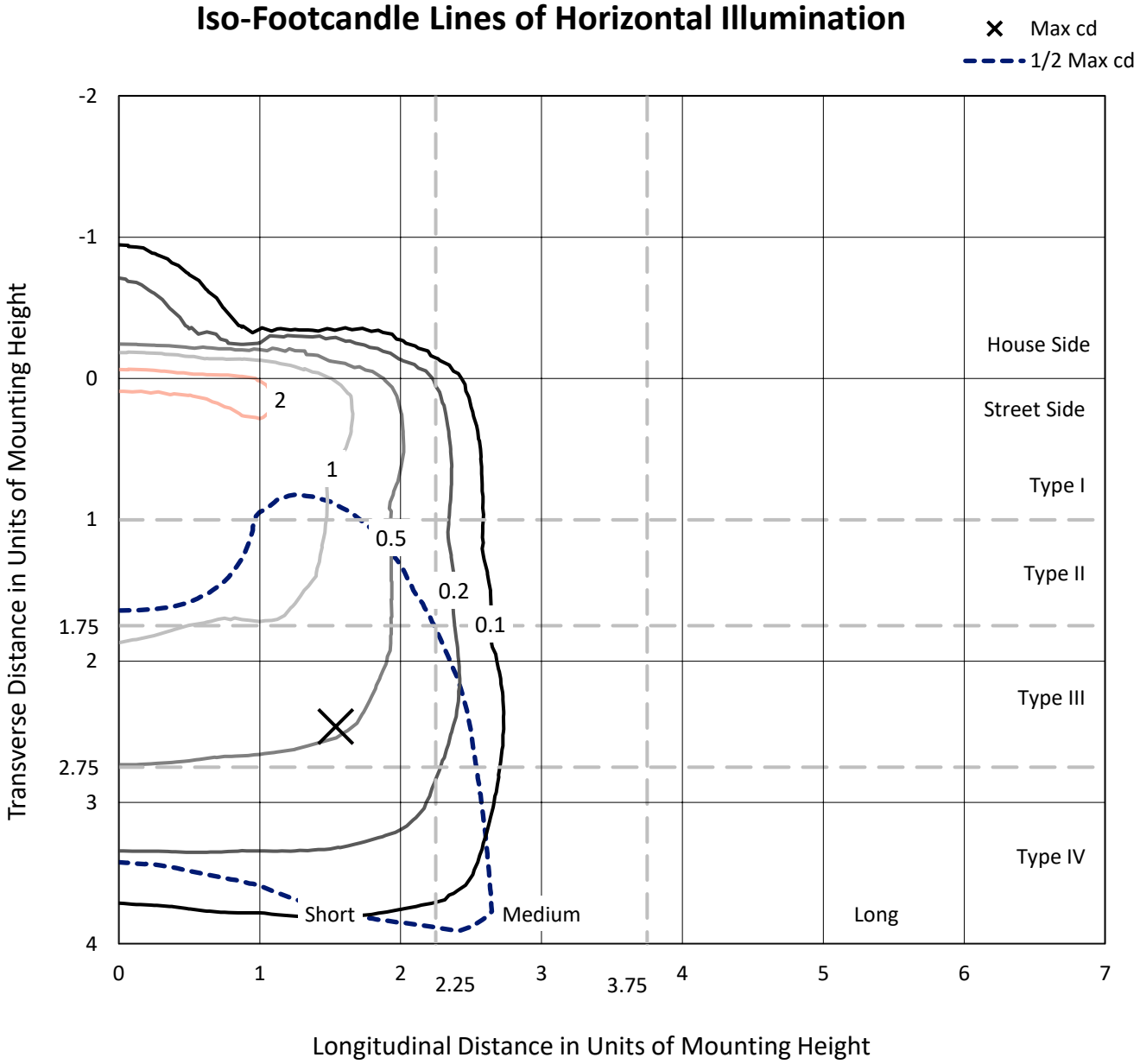
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
Type IV - Short - N/A

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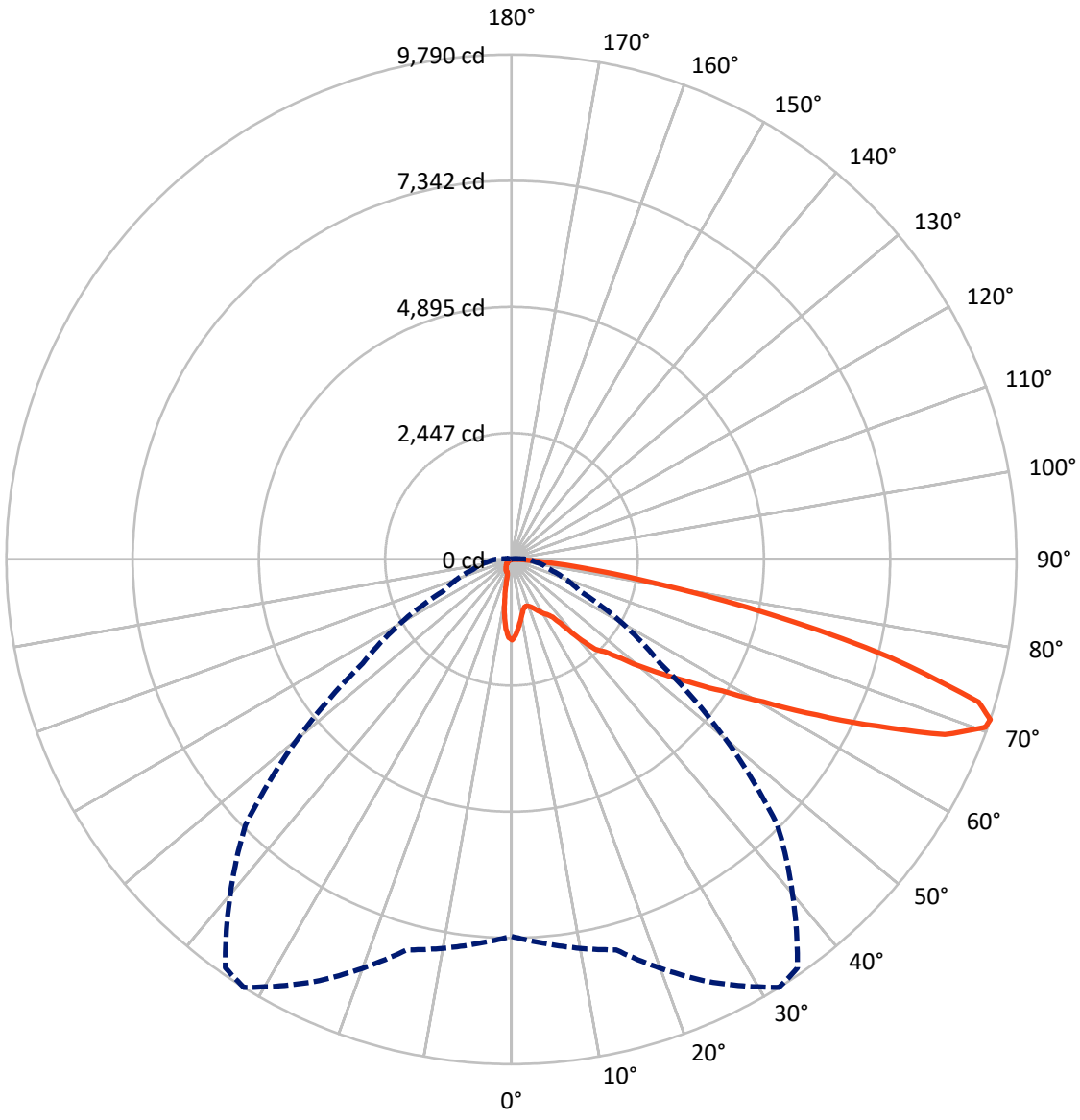
Luminous Intensity Polar Plot



Vertical Plane Through 32-Deg Lateral — Horizontal Cone Through 71-Deg Vertical

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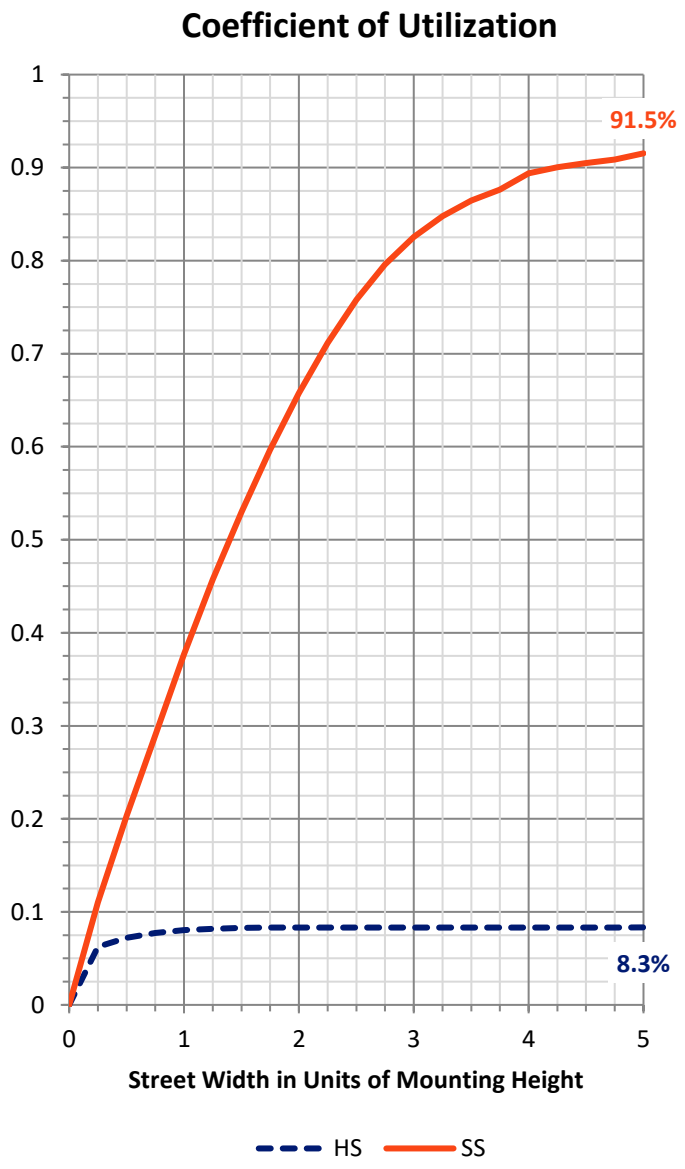
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	814.1	0.0	814.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	8905.8	0.0	8905.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	9720.0	0.0	9720.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.1	1.3
10°-20°	275.9	2.8
20°-30°	429.1	4.4
30°-40°	715.0	7.4
40°-50°	1329.9	13.7
50°-60°	2135.3	22.0
60°-70°	2872.0	29.5
70°-80°	1704.0	17.5
80°-90°	131.7	1.4
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°	9720.0	100.0
0°-180°	9720.0	100.0



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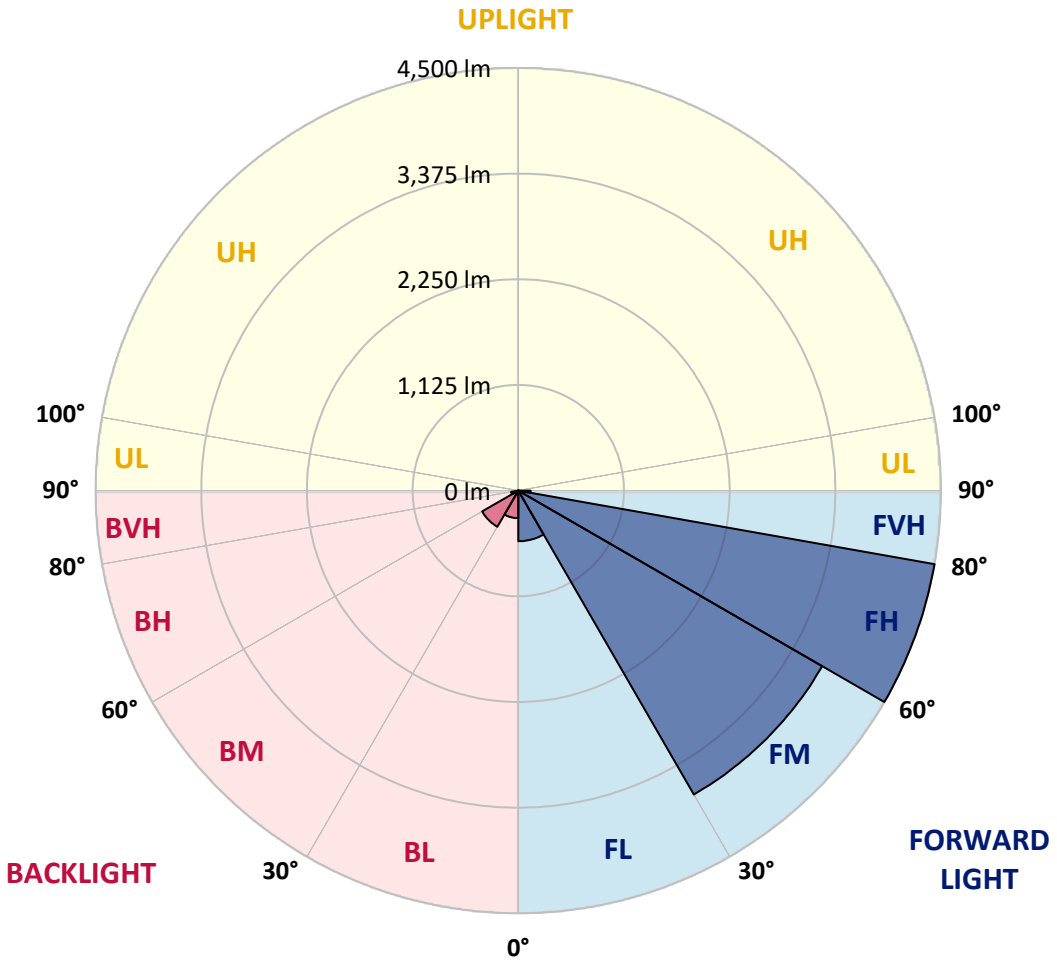
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	538.7	5.5			
FM	(30°-60°)	3736.0	38.4			
FH	(60°-80°)	4499.9	46.3			G2/5000
FVH	(80°-90°)	131.2	1.3			G2/225
BL	(0°-30°)	293.4	3.0	B1/500		
BM	(30°-60°)	444.1	4.6	B1/1000		
BH	(60°-80°)	76.1	0.8	B0/110		G0/110
BVH	(80°-90°)	0.5	0.0			G0/10
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°	32°	35°	45°	55°	65°	75°	85°
0°	1563.1	1563.1	1563.1	1563.1	*1563.1*	1563.1	1563.1	1563.1	1563.1	1563.1	1563.1
2.5°	1449.7	1464.6	1462.4	1467.6	*1480.3*	1485.5	1499.7	1515.4	1537.0	1551.9	1561.6
5°	1298.3	1309.4	1310.9	1337.1	*1349.7*	1363.9	1405.7	1451.2	1501.9	1542.2	1569.1
7.5°	1136.3	1142.3	1154.3	1188.6	*1220.7*	1234.8	1298.3	1377.3	1457.2	1532.5	1581.0
10°	1002.8	1009.5	1031.1	1067.7	*1097.5*	1116.2	1204.2	1303.5	1415.4	1527.3	1598.2
12.5°	926.7	930.4	938.6	971.5	*1009.5*	1029.6	1124.4	1237.8	1381.8	1529.6	1627.3
15°	921.5	920.0	910.3	923.7	*958.0*	978.9	1071.4	1193.1	1352.0	1537.0	1661.6
17.5°	949.1	945.3	922.2	922.2	*950.6*	967.7	1049.0	1169.2	1337.1	1554.2	1710.1
20°	991.6	985.6	947.6	944.6	*972.2*	990.1	1062.5	1170.7	1340.0	1586.3	1775.0
22.5°	1045.3	1038.6	981.2	982.6	*1012.5*	1030.4	1101.3	1197.5	1358.7	1625.8	1844.4
25°	1115.5	1108.0	1040.1	1037.1	*1068.4*	1084.1	1158.7	1245.3	1384.8	1675.0	1935.4
27.5°	1208.7	1193.1	1111.7	1107.2	*1140.8*	1161.0	1228.1	1309.4	1431.1	1742.9	2057.8
30°	1285.6	1268.4	1190.8	1178.9	*1214.7*	1230.4	1299.7	1396.0	1522.1	1861.6	2227.2
32.5°	1386.3	1360.9	1269.9	1238.6	*1276.6*	1296.8	1403.5	1557.2	1657.1	1986.9	2428.6
35°	1613.1	1597.4	1486.3	1376.6	*1374.4*	1399.7	1556.4	1719.8	1795.9	2182.4	2703.2
37.5°	1937.7	1926.5	1808.6	1661.6	*1619.1*	1607.1	1742.2	1898.9	2017.5	2451.0	3022.5
40°	2314.5	2288.4	2180.2	2055.6	*2000.4*	1965.3	1961.6	2165.2	2307.0	2815.9	3355.3
42.5°	2584.6	2536.8	2405.5	2396.5	*2384.6*	2348.0	2242.1	2554.7	2680.8	3208.3	3711.2
45°	2868.1	2795.7	2600.2	2566.7	*2562.2*	2559.9	2665.9	3015.8	3088.2	3633.6	4076.8
47.5°	3088.2	3030.8	2870.3	2855.4	*2874.1*	2924.8	3226.2	3505.3	3490.4	4012.6	4383.5
50°	3381.4	3338.2	3159.8	3188.2	*3284.4*	3367.3	3858.2	4038.8	3820.9	4311.1	4606.6
52.5°	3727.6	3647.8	3482.2	3559.0	*3706.7*	3844.8	4529.0	4505.8	4052.9	4535.7	4772.9
55°	4027.6	3970.9	3914.2	3994.0	*4214.8*	4387.2	5134.8	4855.8	4221.6	4716.2	4846.1
57.5°	4534.9	4521.5	4463.3	4544.6	*4812.5*	4991.6	5677.3	5127.4	4329.8	4810.3	4760.3
60°	5285.5	5263.9	5155.7	5259.4	*5608.6*	5889.9	6177.2	5371.3	4354.4	4773.7	4513.3
62.5°	6188.3	6114.5	6022.0	6174.9	*6653.9*	6777.8	6648.0	5516.1	4262.6	4482.7	3917.9
65°	7031.5	6955.4	6957.6	7279.9	*7801.5*	7885.8	7197.1	5494.5	3994.0	3753.7	2889.7
67.5°	7676.9	7664.2	7755.2	8384.2	*9066.1*	9007.9	7688.1	5170.6	3197.9	2433.1	1535.5
70°	7709.7	7734.3	7995.5	9057.2	*9749.6*	9657.1	7646.3	4202.9	1993.6	1119.2	605.1
71°	*7312.8*	*7478.4*	*7839.5*	*9036.3*	*9789.9*	*9669.8*	*7294.1*	*3520.2*	*1462.4*	*780.4*	*436.5*
72.5°	6231.6	6318.9	7099.4	8504.3	*9471.3*	9214.6	6401.0	2467.4	936.4	477.5	250.7
75°	3432.2	3647.0	4754.3	6671.8	*7575.4*	7350.1	4171.6	1172.2	467.1	261.1	103.7
77.5°	1634.0	1592.2	2319.7	3967.9	*5136.3*	5124.4	2101.8	520.8	272.3	176.8	52.2
80°	467.1	525.3	887.9	1886.2	*2851.7*	2883.0	807.3	251.4	188.8	138.0	26.9
82.5°	141.0	144.0	326.1	834.2	*1418.4*	1337.1	302.9	128.3	135.8	109.7	15.7
85°	24.6	30.6	96.2	294.0	*540.9*	410.4	76.1	61.2	89.5	72.4	9.0
87.5°	1.5	2.2	32.1	33.6	*47.8*	27.6	13.4	9.0	19.4	19.4	5.2
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°	1563.1	1563.1	1563.1	1563.1	1563.1	1563.1	1563.1	1563.1	1563.1	1563.1	1563.1
2.5°	1568.4	1572.8	1569.8	1563.1	1551.9	1538.5	1520.6	1505.7	1493.0	1486.3	1494.5
5°	1578.1	1584.0	1569.1	1535.5	1484.8	1429.6	1366.9	1318.4	1280.3	1268.4	1263.9
7.5°	1593.0	1596.7	1556.4	1481.8	1374.4	1243.8	1129.6	1033.4	958.8	936.4	903.6
10°	1612.4	1610.1	1534.0	1395.3	1206.5	1010.3	833.4	702.1	602.9	567.1	564.1
12.5°	1642.2	1630.3	1505.7	1277.4	1006.5	749.9	531.2	415.6	352.9	332.0	327.5
15°	1679.5	1651.2	1460.9	1139.3	770.7	484.2	327.5	292.5	284.3	282.8	281.3
17.5°	1723.5	1678.8	1402.0	970.0	541.7	314.1	273.8	273.1	273.8	272.3	271.6
20°	1783.2	1707.9	1331.8	769.3	358.1	264.9	261.1	261.1	261.9	261.1	261.1
22.5°	1846.7	1742.2	1245.3	587.2	270.1	251.4	250.7	252.2	253.7	252.9	252.9
25°	1925.0	1787.0	1131.1	402.2	241.7	240.3	241.0	244.0	247.0	247.7	247.0
27.5°	2038.4	1842.2	1008.8	276.8	221.6	223.1	230.6	238.0	242.5	243.2	243.2
30°	2166.0	1903.4	849.1	224.6	205.2	205.2	214.1	228.3	238.0	239.5	240.3
32.5°	2330.1	1974.2	672.3	202.2	189.5	188.0	196.2	213.4	231.3	236.5	236.5
35°	2533.1	2057.8	499.9	188.0	178.3	174.6	179.1	193.2	216.4	231.3	232.8
37.5°	2771.1	2136.9	365.6	175.3	167.9	162.7	165.6	176.8	195.5	217.9	223.8
40°	2991.2	2207.0	273.1	164.9	157.4	153.7	155.9	161.2	176.8	197.7	201.5
42.5°	3231.5	2261.5	217.1	153.7	147.0	145.5	145.5	147.7	158.2	170.1	170.9
45°	3471.0	2280.9	182.1	140.3	135.8	137.3	136.5	135.0	139.5	138.0	138.0
47.5°	3641.8	2257.8	150.7	127.6	127.6	129.8	126.1	120.9	118.6	109.7	110.4
50°	3759.0	2173.5	123.9	112.7	118.6	121.6	114.2	105.9	97.7	88.0	85.8
52.5°	3807.5	2023.5	101.5	93.3	105.2	108.9	100.0	90.3	77.6	69.4	67.2
55°	3776.1	1838.4	84.3	76.1	88.8	93.3	84.3	73.1	58.9	50.0	48.5
57.5°	3638.1	1617.6	71.6	60.4	70.9	73.9	67.9	56.0	41.8	32.8	32.8
60°	3399.3	1389.3	58.2	47.8	53.0	57.5	51.5	40.3	28.4	20.1	18.7
62.5°	2915.1	1128.1	47.0	37.3	37.3	41.0	35.8	29.1	17.9	10.4	9.7
65°	2104.8	773.7	37.3	27.6	26.9	26.9	22.4	19.4	10.4	4.5	3.0
67.5°	1143.8	436.5	29.8	20.9	18.7	17.9	14.2	11.2	4.5	0.7	0.0
70°	449.9	167.9	23.1	14.2	11.9	11.2	7.5	5.2	3.0	0.0	0.0
71°	*305.2*	*115.6*	*20.1*	*11.9*	*9.7*	*8.2*	*6.0*	*4.5*	*2.2*	*0.0*	*0.0*
72.5°	174.6	71.6	15.7	9.0	7.5	6.0	4.5	3.0	2.2	0.0	0.0
75°	76.1	36.6	9.7	6.7	5.2	3.7	3.0	2.2	0.7	0.0	0.0
77.5°	38.8	20.1	6.7	5.2	3.0	2.2	1.5	0.7	0.0	0.0	0.0
80°	21.6	10.4	4.5	3.0	2.2	1.5	0.7	0.7	0.0	0.0	0.0
82.5°	11.9	6.0	2.2	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.5	3.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.7	1.5	0.0	0.0	0.0	0.0	0.7	0.7	0.0	0.0	0.0
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)