

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: LUMARK

Report Number: P232892

Luminaire Tested: **NFFLD-L-C125-D-UNV-66**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-236-1)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NFFLD-L-C125-D-UNV-66
Description: LED FLOOD LIGHT LUMINAIRE
Light Source: (4) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38637.8 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Luminous Opening: (L: 0 ' x W: 1 ' x H: 1.04 '
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 268
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

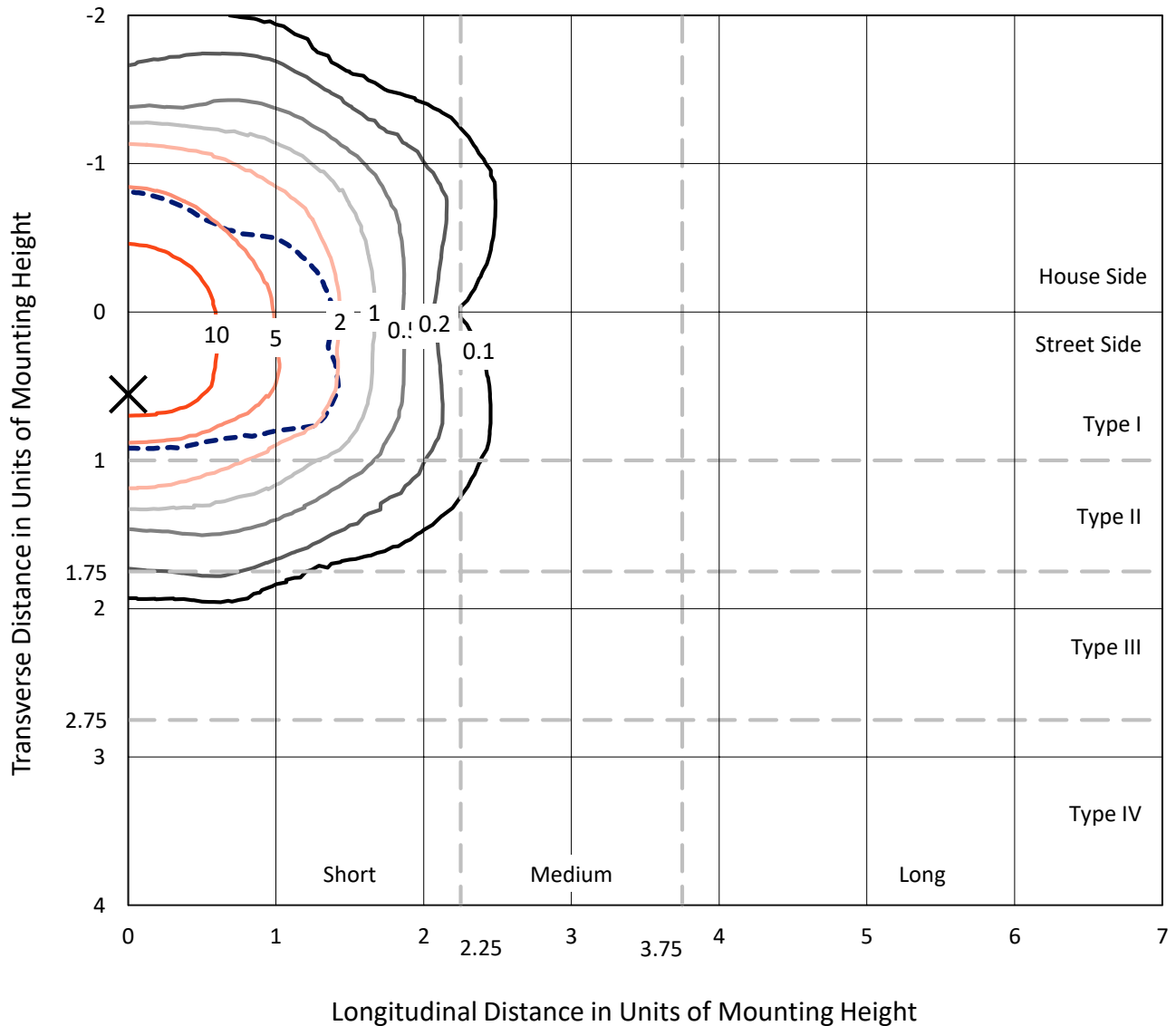


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

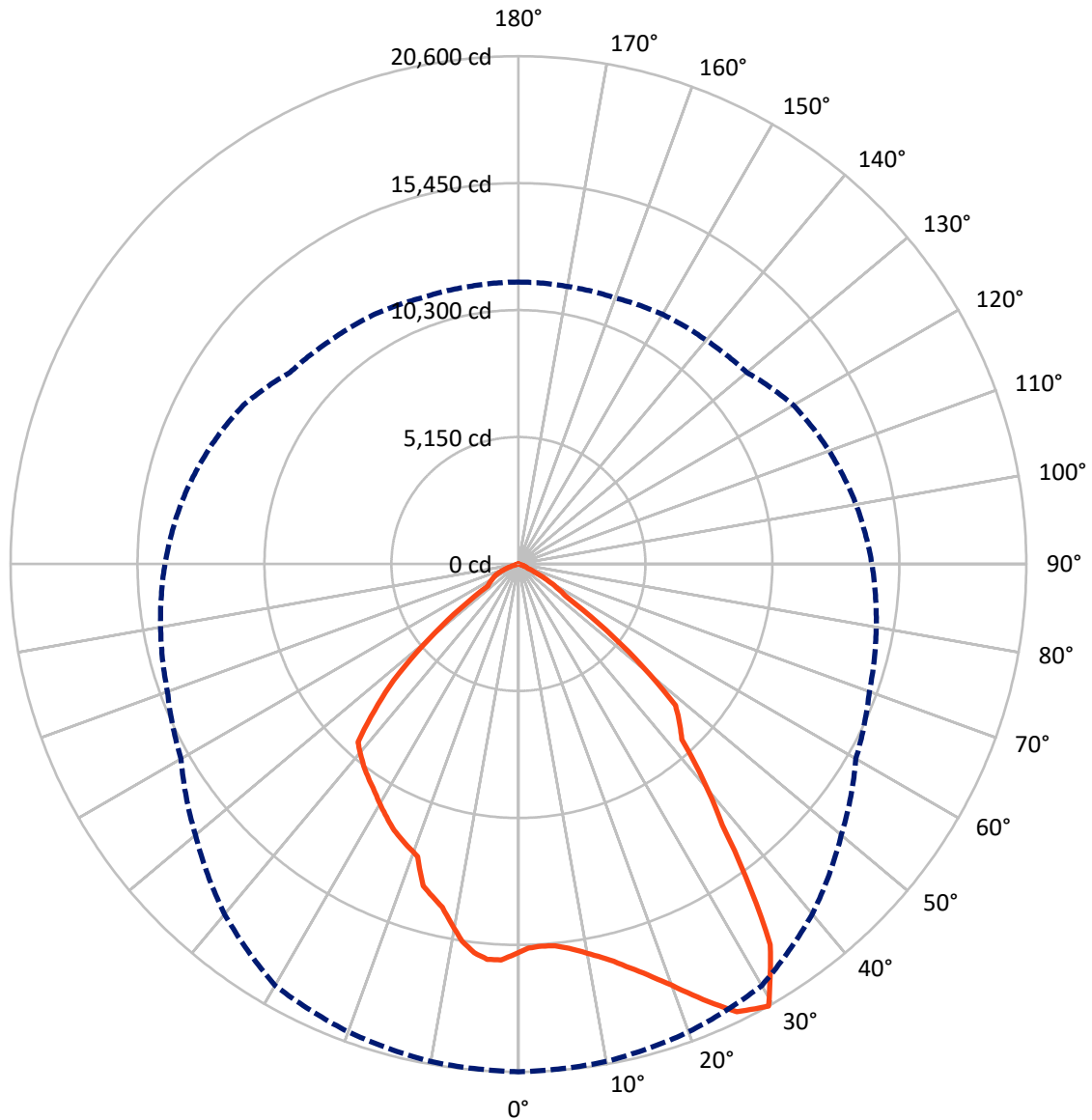


Based on 30 foot mounting height. Maximum calculated value = 17.4 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 29-Deg Vertical

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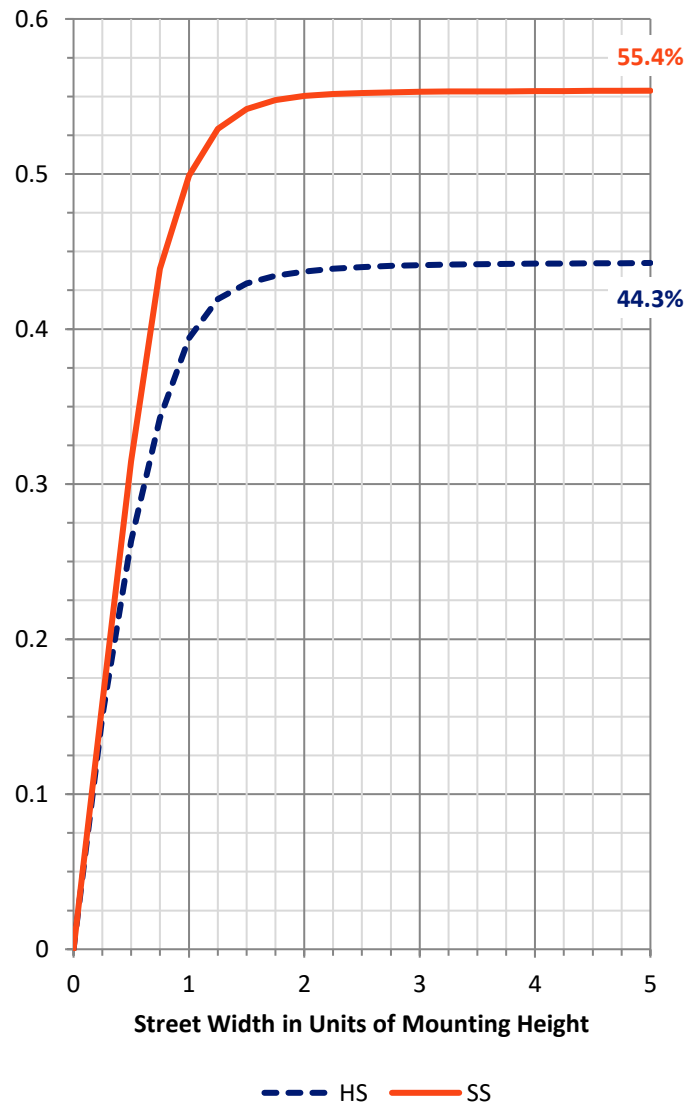
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17251.9	0.0	17251.9
	% Fixture	44.7	0.0	44.7
Street Side	Lumens	21385.8	0.0	21385.8
	% Fixture	55.3	0.0	55.3
Total	Lumens	38637.8	0.0	38637.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1503.1	3.9
10°-20°	4374.9	11.3
20°-30°	7024.1	18.2
30°-40°	8653.9	22.4
40°-50°	8488.7	22.0
50°-60°	5953.9	15.4
60°-70°	2549.8	6.6
70°-80°	573.6	1.5
80°-90°	72.3	0.2
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°	38637.8	100.0
0°-180°	38637.8	100.0



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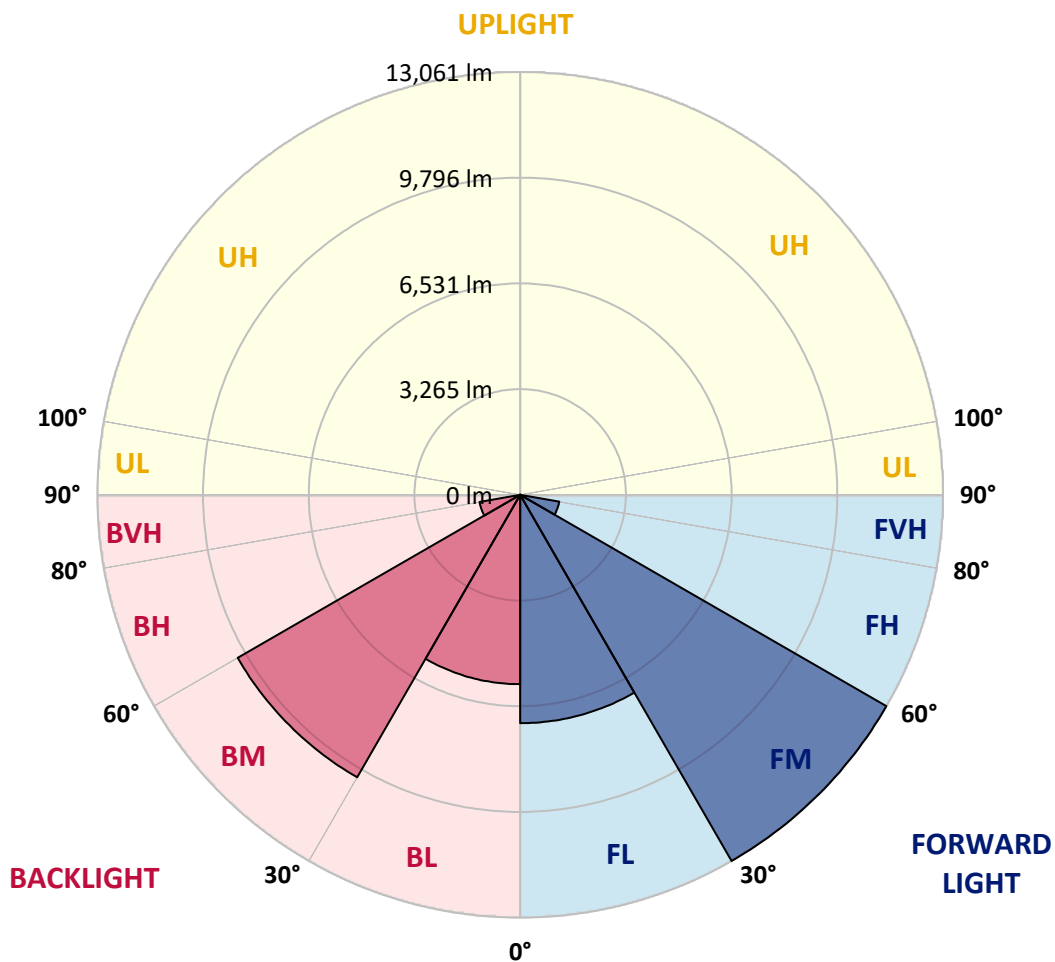
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7054.4	18.3			
FM	(30°-60°)	13061.1	33.8			
FH	(60°-80°)	1224.8	3.2			G1/1800
FVH	(80°-90°)	28.7	0.1			G1/100
BL	(0°-30°)	5849.3	15.1	B5		
BM	(30°-60°)	10074.1	26.1	B5		
BH	(60°-80°)	1275.8	3.3	B3/2500		G3/2500
BVH	(80°-90°)	38.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	15698.8	15698.8	15698.8	15698.8	15698.8	15698.8	15698.8	15698.8	15698.8	15698.8	15698.8
1°	15580.8	15585.5	15593.4	15604.1	15617.1	15631.9	15648.0	15665.1	15682.8	15700.8	15724.4
3°	15524.8	15527.3	15533.3	15542.6	15556.2	15573.7	15594.8	15618.4	15663.1	15708.8	15773.4
5°	15552.8	15570.2	15565.9	15556.3	15544.8	15531.2	15551.8	15593.9	15645.9	15730.8	15832.9
7°	15718.8	15700.8	15675.0	15635.5	15584.8	15547.5	15534.7	15563.6	15622.1	15728.8	15835.3
9°	15958.8	15933.1	15866.3	15779.8	15664.0	15580.9	15527.2	15540.6	15628.3	15747.8	15852.4
11°	16241.8	16205.0	16114.5	15975.7	15799.9	15630.8	15533.1	15540.1	15642.3	15769.8	15839.4
13°	16574.8	16534.1	16413.2	16206.0	15961.3	15729.0	15560.8	15530.2	15635.7	15747.8	15766.5
15°	17004.8	16944.0	16780.1	16482.3	16152.0	15844.8	15610.9	15529.3	15640.8	15704.8	15666.0
17°	17470.8	17387.8	17185.9	16809.4	16364.8	15963.6	15669.8	15539.8	15642.0	15659.8	15541.1
19.5°	18180.8	18044.6	17763.8	17265.5	16695.4	16132.4	15721.4	15499.6	15575.3	15530.8	15256.6
22.5°	19186.8	18989.7	18584.7	17930.7	17216.7	16412.2	15747.8	15438.1	15514.2	15700.8	14992.9
25.5°	20206.8	20006.4	19520.0	18760.9	17827.4	16805.5	15831.2	15317.5	15144.2	14940.8	14478.9
29°	20599.8	20490.8	20195.1	19742.6	18542.0	17099.6	15804.4	15147.3	14739.1	14337.8	13907.2
33°	18506.8	18682.1	19168.9	19920.2	19090.2	17394.6	15816.6	15064.5	14287.1	13652.8	13209.0
37.5°	13439.8	13888.1	15163.2	17036.8	18157.5	17609.0	15987.2	15026.5	13838.1	13052.8	12534.2
42.5°	9724.9	10008.7	10851.1	12011.2	14304.4	16390.9	16221.3	15013.6	13279.2	12668.8	12060.7
47.5°	8576.9	8509.7	8657.1	8810.1	9979.3	12984.3	15741.3	14712.6	12519.5	12054.9	11719.7
55°	2393.0	2893.6	3952.6	5002.8	6420.2	7444.5	11372.9	11462.5	9713.0	9996.9	9573.7
65°	434.0	421.0	874.4	867.6	1287.0	2151.6	2882.0	3057.7	2302.0	1375.0	2378.2
75°	53.0	77.3	110.7	93.0	96.3	84.6	201.3	184.0	258.5	306.0	377.3
85°	20.0	46.1	55.2	48.9	49.1	52.6	61.2	66.0	78.5	69.0	82.9
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):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	15698.8	15698.8	15698.8	15698.8	15698.8	15698.8	15698.8	15698.8	15698.8	15698.8	15698.8
1°	15746.9	15767.6	15785.7	15800.4	15811.5	15818.6	15821.7	15820.8	15821.7	15818.6	15811.5
3°	15836.5	15895.7	15950.3	15998.9	16040.0	16072.2	16080.4	16075.8	16080.4	16072.2	16040.0
5°	15920.8	16006.3	16063.3	16064.3	16068.7	16076.7	16085.8	16083.8	16085.8	16076.7	16068.7
7°	15940.3	15997.6	16005.1	15980.1	15929.6	15899.0	15881.3	15864.8	15881.3	15899.0	15929.6
9°	15934.7	15900.0	15813.1	15737.1	15632.2	15555.8	15493.4	15463.8	15493.4	15555.8	15632.2
11°	15832.5	15712.7	15534.4	15342.5	15188.1	15033.6	14918.7	14842.8	14918.7	15033.6	15188.1
13°	15662.0	15424.5	15126.9	14878.0	14672.2	14485.9	14337.4	14262.8	14337.4	14485.9	14672.2
15°	15445.5	15087.8	14738.0	14451.9	14210.8	14081.7	13979.8	13926.8	13979.8	14081.7	14210.8
17°	15180.7	14774.5	14421.2	14113.4	13922.6	13736.1	13602.4	13613.8	13602.4	13736.1	13922.6
19.5°	14822.7	14450.7	14100.7	13805.2	13494.9	12998.3	12665.3	12547.9	12665.3	12998.3	13494.9
22.5°	14466.3	14068.3	13709.1	13219.2	12532.7	12350.9	12267.5	12235.9	12267.5	12350.9	12532.7
25.5°	14057.8	13599.9	13134.6	12425.4	12151.5	11976.5	11914.9	11918.9	11914.9	11976.5	12151.5
29°	13411.6	12880.5	12088.9	11844.7	11690.7	11482.6	11431.6	11436.9	11431.6	11482.6	11690.7
33°	12644.9	11949.6	11306.3	11190.4	11000.6	10893.3	10880.5	10886.9	10880.5	10893.3	11000.6
37.5°	11871.1	11105.4	10646.5	10389.5	10295.9	10326.8	10334.2	10373.9	10334.2	10326.8	10295.9
42.5°	11210.6	10489.3	9892.1	9620.6	9628.5	9614.5	9624.2	9724.9	9624.2	9614.5	9628.5
47.5°	10754.0	10026.4	9106.8	8825.9	8499.8	7599.2	7036.3	6926.9	7036.3	7599.2	8499.8
55°	9087.1	8965.8	7513.8	5930.6	4182.0	2765.4	1901.5	1517.0	1901.5	2765.4	4182.0
65°	3216.2	2755.7	1638.4	1213.6	1303.2	1120.0	990.9	985.0	990.9	1120.0	1303.2
75°	366.6	320.2	280.2	234.1	285.8	222.3	143.2	118.0	143.2	222.3	285.8
85°	75.0	75.0	75.6	66.0	51.4	46.3	26.3	12.0	26.3	46.3	51.4
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):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	15698.8	15698.8	15698.8	15698.8	15698.8	15698.8	15698.8	15698.8	15698.8	15698.8	15698.8
1°	15800.4	15785.7	15767.6	15746.9	15724.4	15700.8	15682.8	15665.1	15648.0	15631.9	15617.1
3°	15998.9	15950.3	15895.7	15836.5	15773.4	15708.8	15663.1	15618.4	15594.8	15573.7	15556.2
5°	16064.3	16063.3	16006.3	15920.8	15832.9	15730.8	15645.9	15593.9	15551.8	15531.2	15544.8
7°	15980.1	16005.1	15997.6	15940.3	15835.3	15728.8	15622.1	15563.6	15534.7	15547.5	15584.8
9°	15737.1	15813.1	15900.0	15934.7	15852.4	15747.8	15628.3	15540.6	15527.2	15580.9	15664.0
11°	15342.5	15534.4	15712.7	15832.5	15839.4	15769.8	15642.3	15540.1	15533.1	15630.8	15799.9
13°	14878.0	15126.9	15424.5	15662.0	15766.5	15747.8	15635.7	15530.2	15560.8	15729.0	15961.3
15°	14451.9	14738.0	15087.8	15445.5	15666.0	15704.8	15640.8	15529.3	15610.9	15844.8	16152.0
17°	14113.4	14421.2	14774.5	15180.7	15541.1	15659.8	15642.0	15539.8	15669.8	15963.6	16364.8
19.5°	13805.2	14100.7	14450.7	14822.7	15256.6	15530.8	15575.3	15499.6	15721.4	16132.4	16695.4
22.5°	13219.2	13709.1	14068.3	14466.3	14992.9	15700.8	15514.2	15438.1	15747.8	16412.2	17216.7
25.5°	12425.4	13134.6	13599.9	14057.8	14478.9	14940.8	15144.2	15317.5	15831.2	16805.5	17827.4
29°	11844.7	12088.9	12880.5	13411.6	13907.2	14337.8	14739.1	15147.3	15804.4	17099.6	18542.0
33°	11190.4	11306.3	11949.6	12644.9	13209.0	13652.8	14287.1	15064.5	15816.6	17394.6	19090.2
37.5°	10389.5	10646.5	11105.4	11871.1	12534.2	13052.8	13838.1	15026.5	15987.2	17609.0	18157.5
42.5°	9620.6	9892.1	10489.3	11210.6	12060.7	12668.8	13279.2	15013.6	16221.3	16390.9	14304.4
47.5°	8825.9	9106.8	10026.4	10754.0	11719.7	12054.9	12519.5	14712.6	15741.3	12984.3	9979.3
55°	5930.6	7513.8	8965.8	9087.1	9573.7	9996.9	9713.0	11462.5	11372.9	7444.5	6420.2
65°	1213.6	1638.4	2755.7	3216.2	2378.2	1375.0	2302.0	3057.7	2882.0	2151.6	1287.0
75°	234.1	280.2	320.2	366.6	377.3	306.0	258.5	184.0	201.3	84.6	96.3
85°	66.0	75.6	75.0	75.0	82.9	69.0	78.5	66.0	61.2	52.6	49.1
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):

	330°	340°	350°	360°
0°	15698.8	15698.8	15698.8	15698.8
1°	15604.1	15593.4	15585.5	15580.8
3°	15542.6	15533.3	15527.3	15524.8
5°	15556.3	15565.9	15570.2	15552.8
7°	15635.5	15675.0	15700.8	15718.8
9°	15779.8	15866.3	15933.1	15958.8
11°	15975.7	16114.5	16205.0	16241.8
13°	16206.0	16413.2	16534.1	16574.8
15°	16482.3	16780.1	16944.0	17004.8
17°	16809.4	17185.9	17387.8	17470.8
19.5°	17265.5	17763.8	18044.6	18180.8
22.5°	17930.7	18584.7	18989.7	19186.8
25.5°	18760.9	19520.0	20006.4	20206.8
29°	19742.6	20195.1	20490.8	20599.8
33°	19920.2	19168.9	18682.1	18506.8
37.5°	17036.8	15163.2	13888.1	13439.8
42.5°	12011.2	10851.1	10008.7	9724.9
47.5°	8810.1	8657.1	8509.7	8576.9
55°	5002.8	3952.6	2893.6	2393.0
65°	867.6	874.4	421.0	434.0
75°	93.0	110.7	77.3	53.0
85°	48.9	55.2	46.1	20.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)