

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: STREETWORKS

Report Number: P324021

Luminaire Tested: **GAN-SA7D-830-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324021
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35395 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

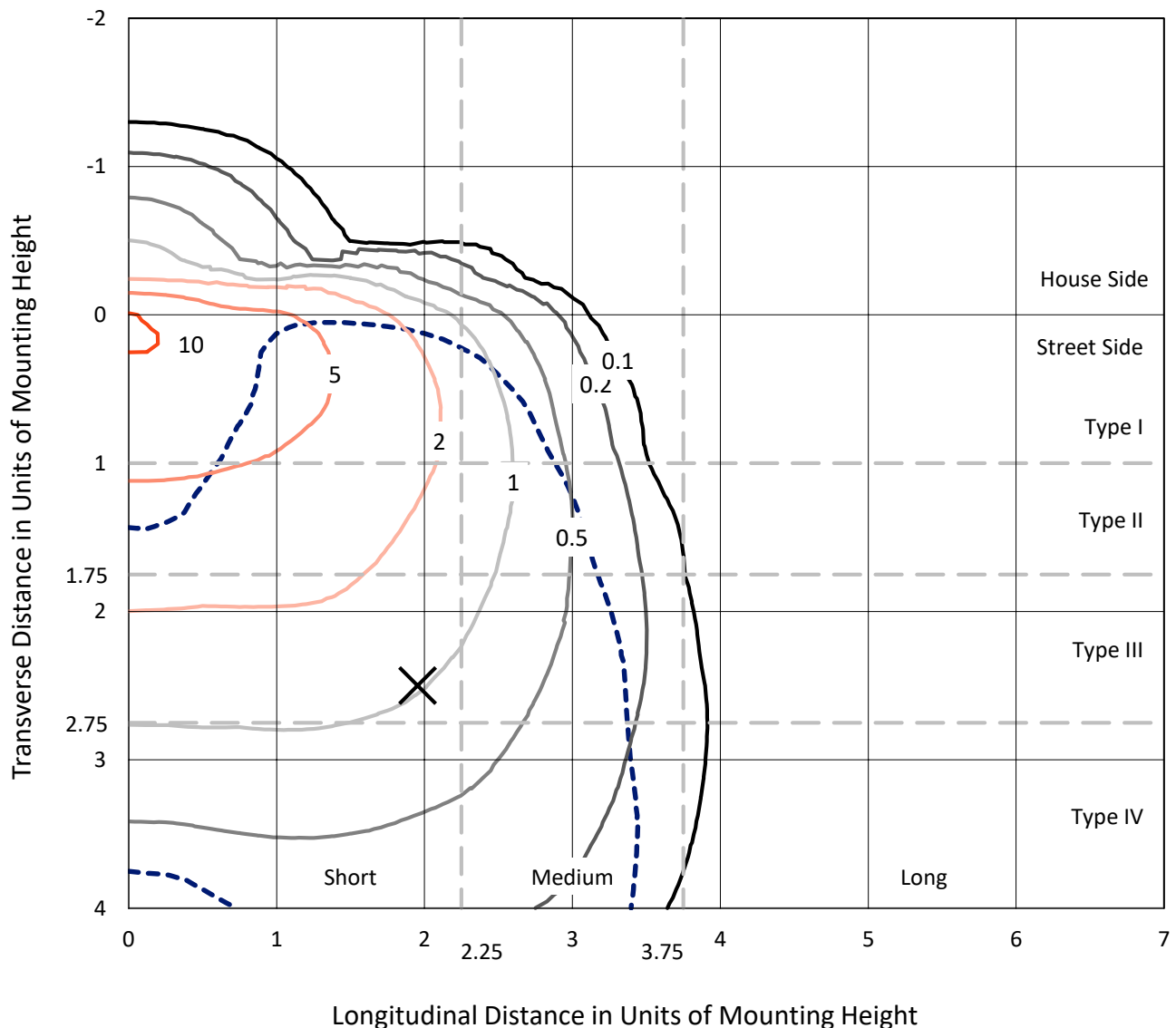
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

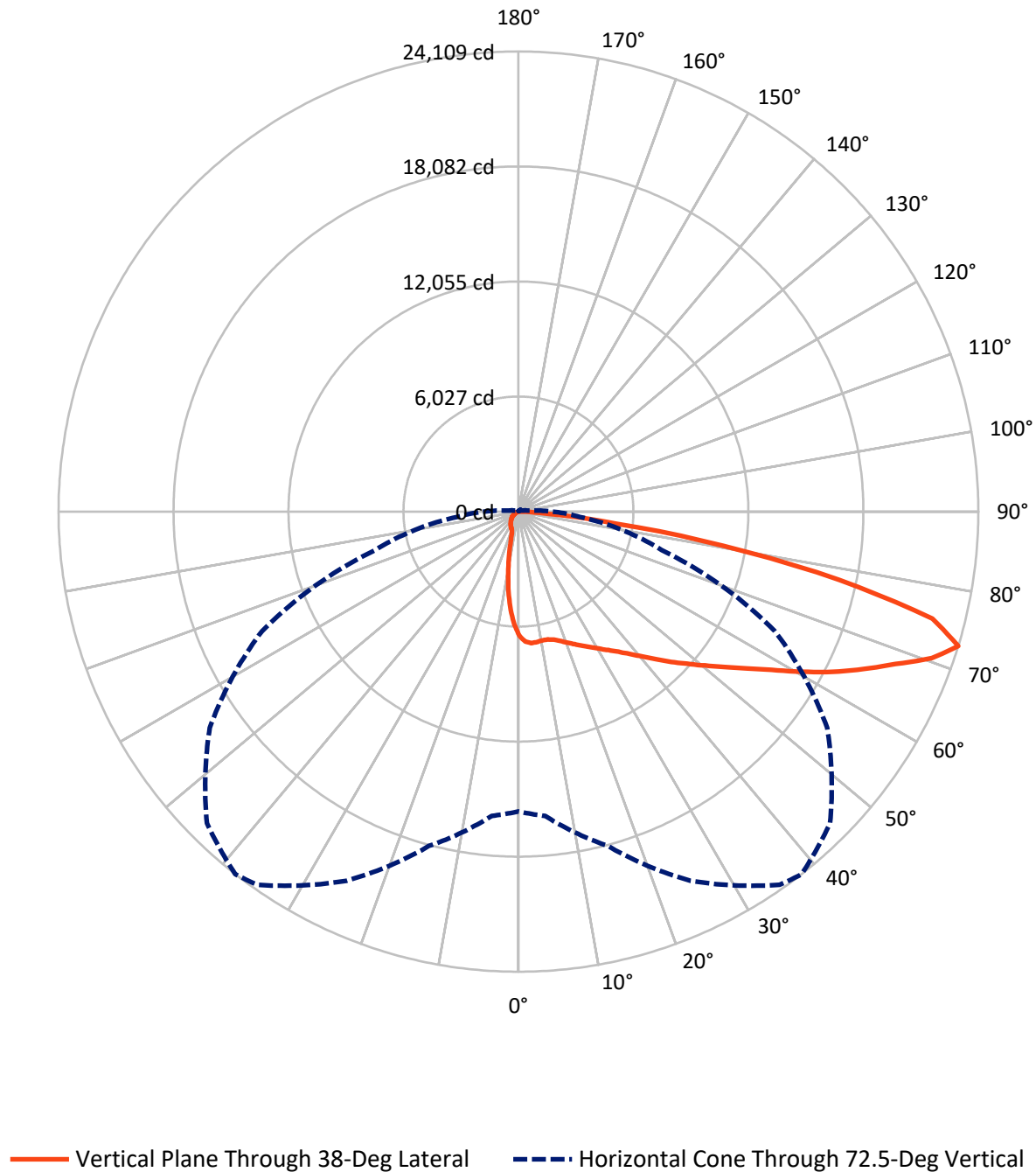
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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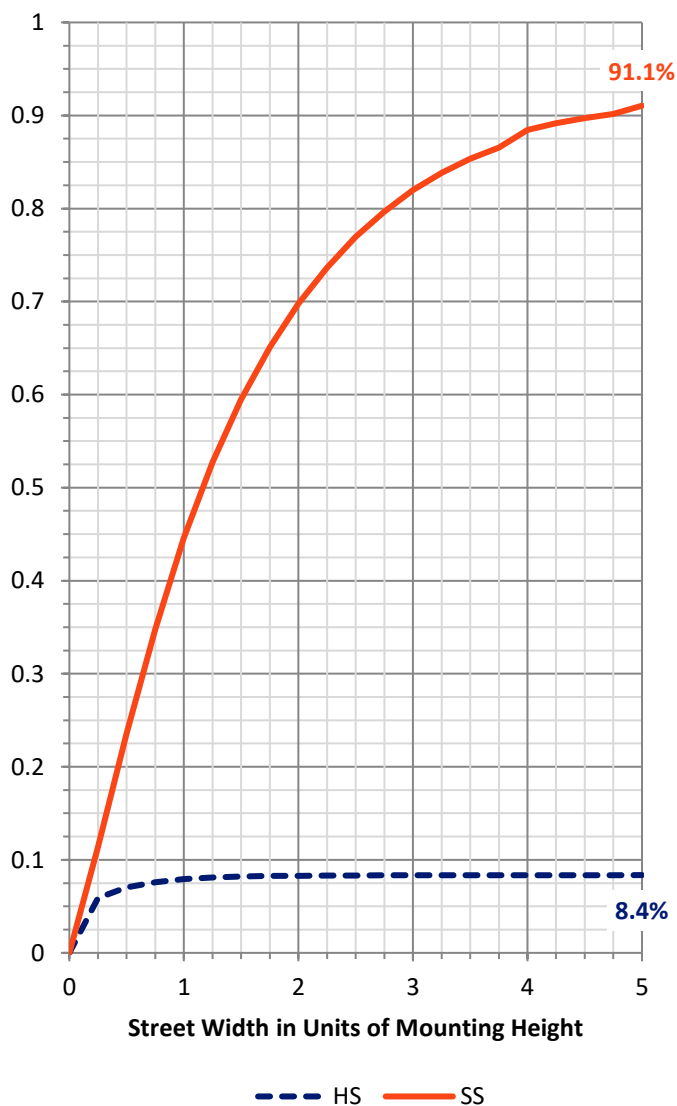
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2978.6	0.0	2978.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	32416.4	0.0	32416.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	35395.0	0.0	35395.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	554.7	1.6
10°-20°	1356.4	3.8
20°-30°	2157.3	6.1
30°-40°	3243.2	9.2
40°-50°	4947.7	14.0
50°-60°	6992.8	19.8
60°-70°	8771.3	24.8
70°-80°	6558.5	18.5
80°-90°	813.2	2.3
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°	35395.0	100.0
0°-180°	35395.0	100.0

Coefficient of Utilization



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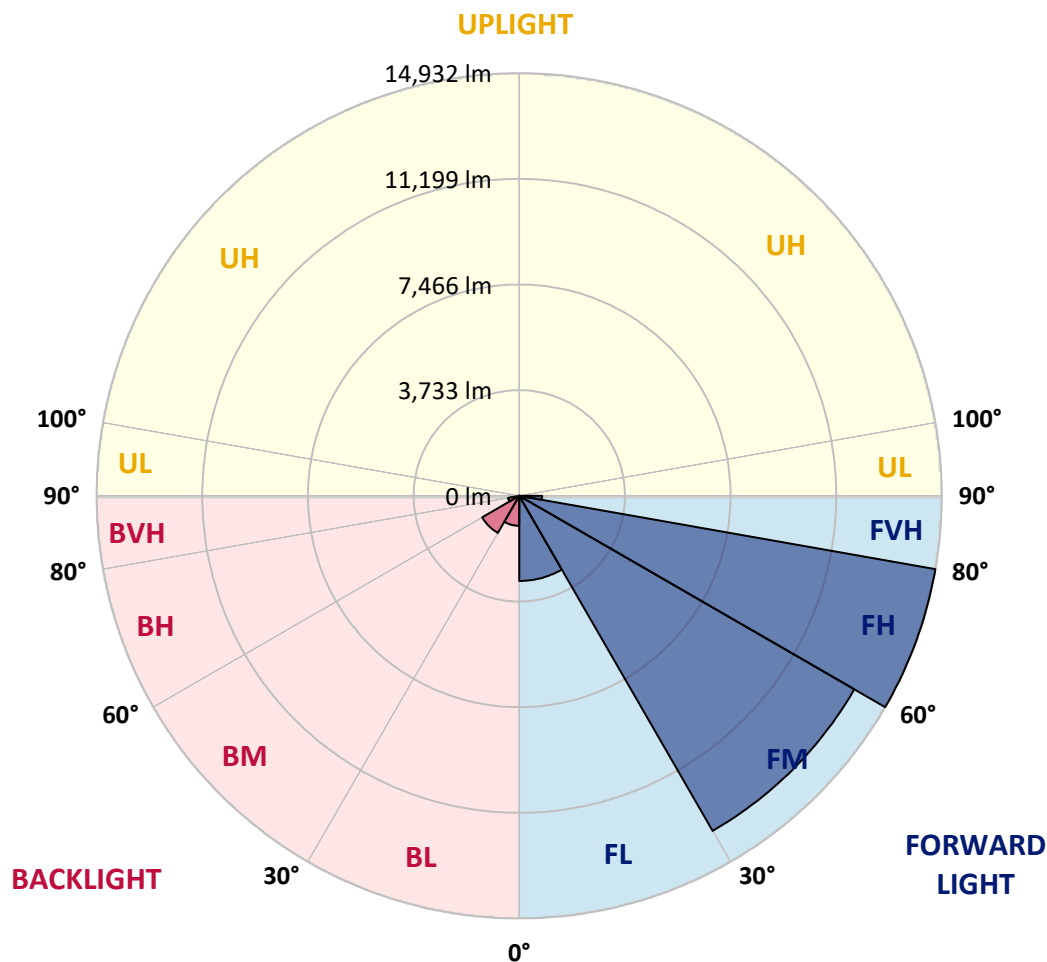
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3007.7	8.5			
FM	(30°-60°)	13671.1	38.6			
FH	(60°-80°)	14931.9	42.2			G5
FVH	(80°-90°)	805.6	2.3			G5
BL	(0°-30°)	1060.6	3.0	B3/2500		
BM	(30°-60°)	1512.6	4.3	B2/2500		
BH	(60°-80°)	397.9	1.1	B1/500		G1/500
BVH	(80°-90°)	7.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	6509.0	6509.0	6509.0	6509.0	6509.0	6509.0	6509.0	6509.0	6509.0	6509.0	6509.0
2.5°	6908.9	6910.3	6894.2	6867.7	6833.9	6816.2	6786.8	6739.8	6689.8	6600.2	6503.1
5°	7050.0	7050.0	7029.4	6994.1	6939.7	6923.6	6867.7	6792.7	6689.8	6544.3	6381.1
7.5°	7035.3	7038.2	7010.3	6973.5	6919.1	6904.4	6836.8	6753.0	6625.2	6448.8	6240.0
10°	6958.8	6966.2	6944.1	6926.5	6876.5	6860.3	6797.1	6713.3	6585.5	6397.3	6157.7
12.5°	6880.9	6888.3	6895.6	6911.8	6880.9	6875.0	6825.1	6754.5	6632.5	6437.0	6166.5
15°	6830.9	6845.6	6898.6	6961.8	6969.1	6963.2	6930.9	6864.8	6741.3	6538.4	6229.7
17.5°	6830.9	6854.5	6964.7	7085.3	7127.9	7132.3	7104.4	7011.8	6864.8	6647.2	6288.5
20°	6888.3	6920.6	7092.6	7263.1	7333.7	7333.7	7279.3	7149.9	6977.9	6745.7	6328.2
22.5°	7035.3	7077.9	7294.0	7491.0	7565.9	7549.8	7476.3	7288.1	7095.5	6857.4	6378.2
25°	7324.9	7357.2	7582.1	7780.5	7826.1	7789.4	7696.8	7455.7	7245.5	7008.8	6469.3
27.5°	7698.2	7702.6	7934.9	8102.5	8074.5	8049.6	7933.4	7665.9	7461.6	7224.9	6626.6
30°	8108.4	8108.4	8312.7	8440.6	8355.3	8334.7	8218.6	7920.2	7737.9	7518.9	6850.1
32.5°	8505.2	8522.9	8689.0	8769.8	8674.3	8653.7	8540.5	8242.1	8105.4	7967.2	7198.4
35°	8888.9	8902.1	9059.4	9103.5	9012.4	9018.3	8937.4	8684.6	8633.1	8615.5	7723.2
37.5°	9260.8	9263.7	9424.0	9451.9	9406.3	9456.3	9463.7	9240.2	9335.8	9478.4	8462.6
40°	9600.4	9603.3	9762.1	9834.1	9912.0	9976.7	10034.0	9914.9	10231.0	10561.7	9343.1
42.5°	9872.3	9903.2	10104.6	10241.3	10447.1	10570.5	10726.4	10720.5	11296.7	11793.6	10407.4
45°	10111.9	10164.8	10445.6	10685.2	11038.0	11235.0	11479.0	11670.1	12496.2	13165.0	11484.9
47.5°	10428.0	10477.9	10798.4	11190.9	11661.3	11920.0	12324.2	12737.3	13814.8	14511.5	12537.4
50°	10873.4	10851.3	11167.4	11730.4	12334.5	12674.1	13250.3	13869.2	15123.0	15684.6	13156.2
52.5°	11348.2	11339.3	11573.1	12316.9	13128.3	13525.2	14286.6	15039.3	16374.0	16493.1	13439.9
55°	11936.2	11872.9	12069.9	12985.7	14070.5	14496.8	15393.5	16197.6	17370.6	16948.7	13582.5
57.5°	12552.1	12447.7	12635.9	13731.0	15133.3	15637.5	16619.5	17326.5	18033.6	17260.4	13581.0
60°	13188.6	13065.1	13288.5	14662.9	16453.4	17036.9	17948.3	18089.4	18652.4	17417.7	13481.1
62.5°	13720.7	13647.2	13979.4	15659.6	17927.7	18501.0	18952.3	18783.3	19174.3	17539.7	13247.4
65°	14283.7	14288.1	14824.6	16822.3	19494.7	19881.3	19919.6	19682.9	19610.9	17514.7	12456.5
67.5°	15045.1	15115.7	16010.9	18401.1	21019.1	21317.5	21314.6	20657.5	19929.8	16521.0	10702.8
70°	15850.7	16016.8	17378.0	20207.7	22683.1	22985.9	22830.1	21277.8	18765.6	13359.1	7574.8
72.5°	15715.4	16003.6	18138.0	21346.9	23878.2	24109.0	23096.2	19753.4	14832.0	7764.4	3225.1
75°	12124.3	12458.0	16631.2	20218.0	22624.3	22417.0	19844.6	15371.5	8105.4	2166.7	726.2
77.5°	6404.7	6582.5	10986.6	15402.3	17641.1	17207.5	13979.4	8527.3	2471.0	536.5	326.3
80°	3354.5	3395.6	4787.7	8739.0	10888.1	10891.0	8284.7	3745.5	1018.7	274.9	219.0
82.5°	1796.3	1831.6	2529.8	4038.0	5705.0	5171.4	3172.2	2060.9	592.4	155.8	210.2
85°	432.2	439.5	1434.7	1844.8	2243.2	1602.3	942.3	1730.2	160.2	91.1	170.5
87.5°	166.1	169.0	532.1	798.2	571.8	370.4	441.0	645.3	20.6	35.3	26.5
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°	6509.0	6509.0	6509.0	6509.0	6509.0	6509.0	6509.0	6509.0	6509.0	6509.0	6509.0
2.5°	6444.3	6406.1	6312.0	6193.0	6087.1	6010.7	5896.0	5821.1	5771.1	5769.6	5750.5
5°	6281.2	6203.3	6000.4	5759.3	5540.3	5343.3	5111.1	4927.3	4790.6	4768.6	4721.5
7.5°	6106.3	5978.4	5666.7	5290.4	4922.9	4549.6	4115.9	3846.9	3616.1	3505.9	3494.1
10°	5998.9	5819.6	5377.1	4833.3	4257.0	3649.9	3082.5	2690.0	2406.3	2325.5	2265.2
12.5°	5976.9	5740.2	5153.7	4404.0	3580.8	2778.2	2150.6	1733.1	1506.7	1434.7	1415.6
15°	5998.9	5703.5	4965.6	3979.2	2895.8	1971.2	1443.5	1201.0	1115.7	1095.1	1093.7
17.5°	6012.2	5659.4	4752.4	3507.3	2231.4	1408.2	1105.4	1034.9	1021.6	1020.2	1023.1
20°	6010.7	5591.8	4498.1	2981.1	1659.6	1106.9	999.6	984.9	981.9	983.4	981.9
22.5°	6000.4	5512.4	4218.8	2438.7	1253.9	989.3	954.0	945.2	943.7	943.7	943.7
25°	6019.5	5449.2	3911.6	1919.8	1033.4	934.9	912.9	905.5	904.0	904.0	901.1
27.5°	6088.6	5413.9	3575.0	1477.3	933.4	886.4	868.8	867.3	862.9	861.4	864.3
30°	6200.3	5413.9	3206.0	1149.5	873.2	836.4	823.2	820.2	818.8	817.3	818.8
32.5°	6397.3	5455.1	2803.2	955.5	815.8	780.6	771.7	776.1	771.7	771.7	771.7
35°	6753.0	5578.5	2381.4	833.5	755.6	726.2	717.3	723.2	720.3	720.3	718.8
37.5°	7271.9	5807.8	1956.5	760.0	702.6	671.8	660.0	668.8	665.9	665.9	664.4
40°	7904.0	6141.5	1552.3	704.1	651.2	618.9	608.6	613.0	605.6	605.6	608.6
42.5°	8684.6	6564.9	1199.5	649.7	599.7	568.9	563.0	558.6	545.4	538.0	539.5
45°	9551.9	7005.9	934.9	596.8	551.2	526.2	517.4	505.7	483.6	468.9	470.4
47.5°	10326.5	7345.4	760.0	545.4	507.1	488.0	474.8	452.8	420.4	402.8	404.2
50°	10733.7	7396.9	646.8	493.9	466.0	446.9	427.8	394.0	355.7	336.6	335.2
52.5°	10838.1	7155.8	563.0	446.9	424.8	402.8	377.8	332.2	289.6	269.0	266.1
55°	10876.3	6788.3	488.0	402.8	380.7	355.7	323.4	271.9	232.3	211.7	210.2
57.5°	10749.9	6240.0	429.2	363.1	336.6	305.8	266.1	217.6	179.3	163.2	163.2
60°	10469.1	5497.7	383.7	320.5	291.1	255.8	214.6	169.0	133.8	120.5	120.5
62.5°	9909.1	4536.3	341.0	276.4	248.4	211.7	173.5	127.9	94.1	86.7	88.2
65°	8852.2	3441.2	298.4	236.7	211.7	174.9	135.2	91.1	63.2	63.2	66.1
67.5°	7219.0	2390.2	254.3	201.4	182.3	142.6	102.9	63.2	44.1	50.0	55.9
70°	4778.9	1340.6	217.6	166.1	155.8	113.2	76.4	42.6	35.3	47.0	57.3
72.5°	1803.7	521.8	182.3	133.8	135.2	86.7	54.4	32.3	32.3	51.4	67.6
75°	502.7	255.8	130.8	98.5	105.8	63.2	39.7	27.9	30.9	58.8	79.4
77.5°	295.5	188.2	85.3	57.3	72.0	44.1	26.5	22.0	26.5	50.0	76.4
80°	238.1	100.0	50.0	29.4	39.7	25.0	17.6	13.2	7.3	19.1	39.7
82.5°	238.1	60.3	23.5	20.6	20.6	13.2	8.8	5.9	1.5	0.0	10.3
85°	160.2	25.0	14.7	13.2	10.3	4.4	2.9	1.5	0.0	0.0	0.0
87.5°	26.5	10.3	5.9	2.9	1.5	0.0	0.0	0.0	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)