

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: P522918

Luminaire Tested: **GALN-SA9B-830-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522918
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41021 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 364
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

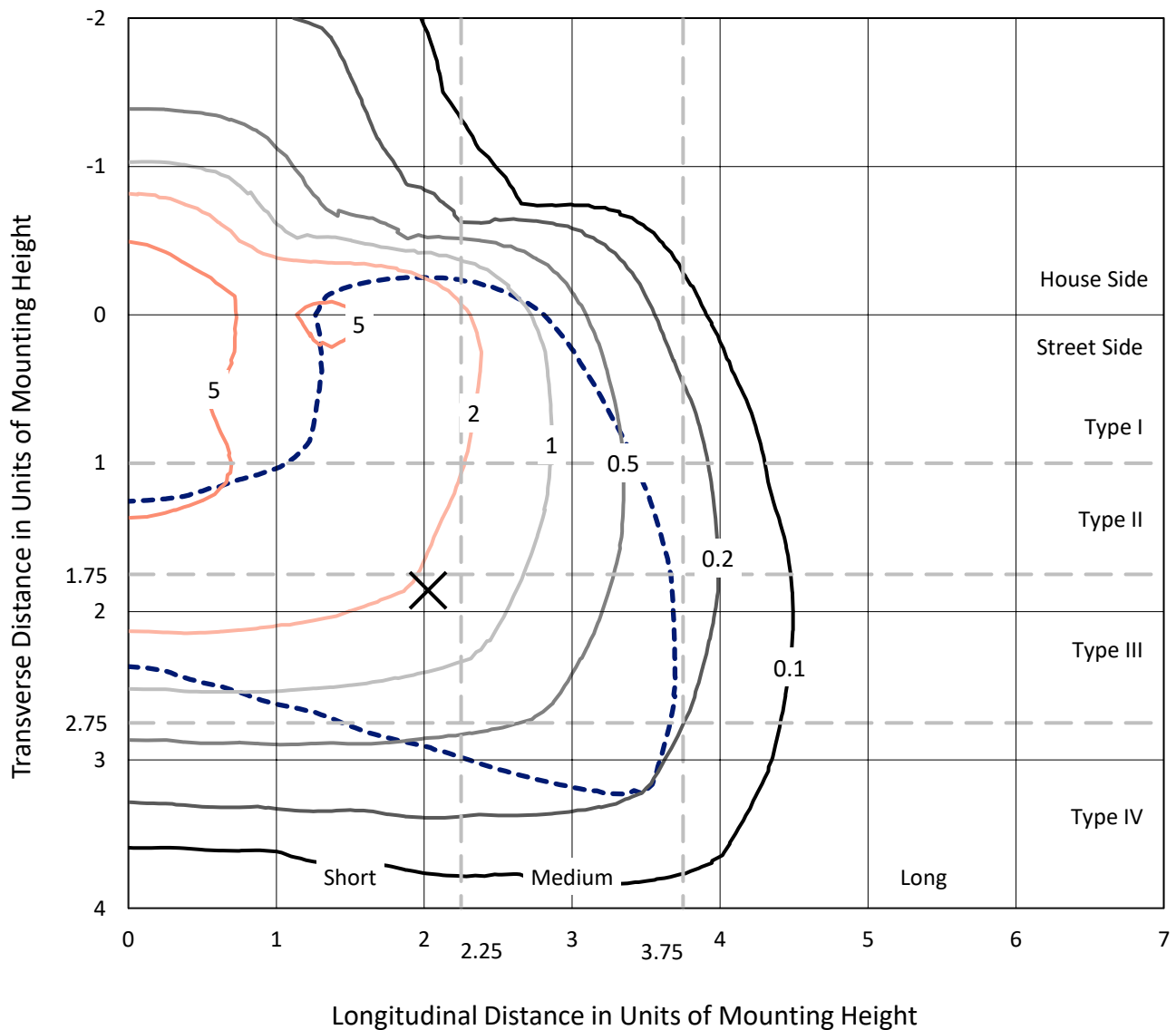


REPORT NUMBER: P522918

CATALOG NUMBER: GALN-SA9B-830-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

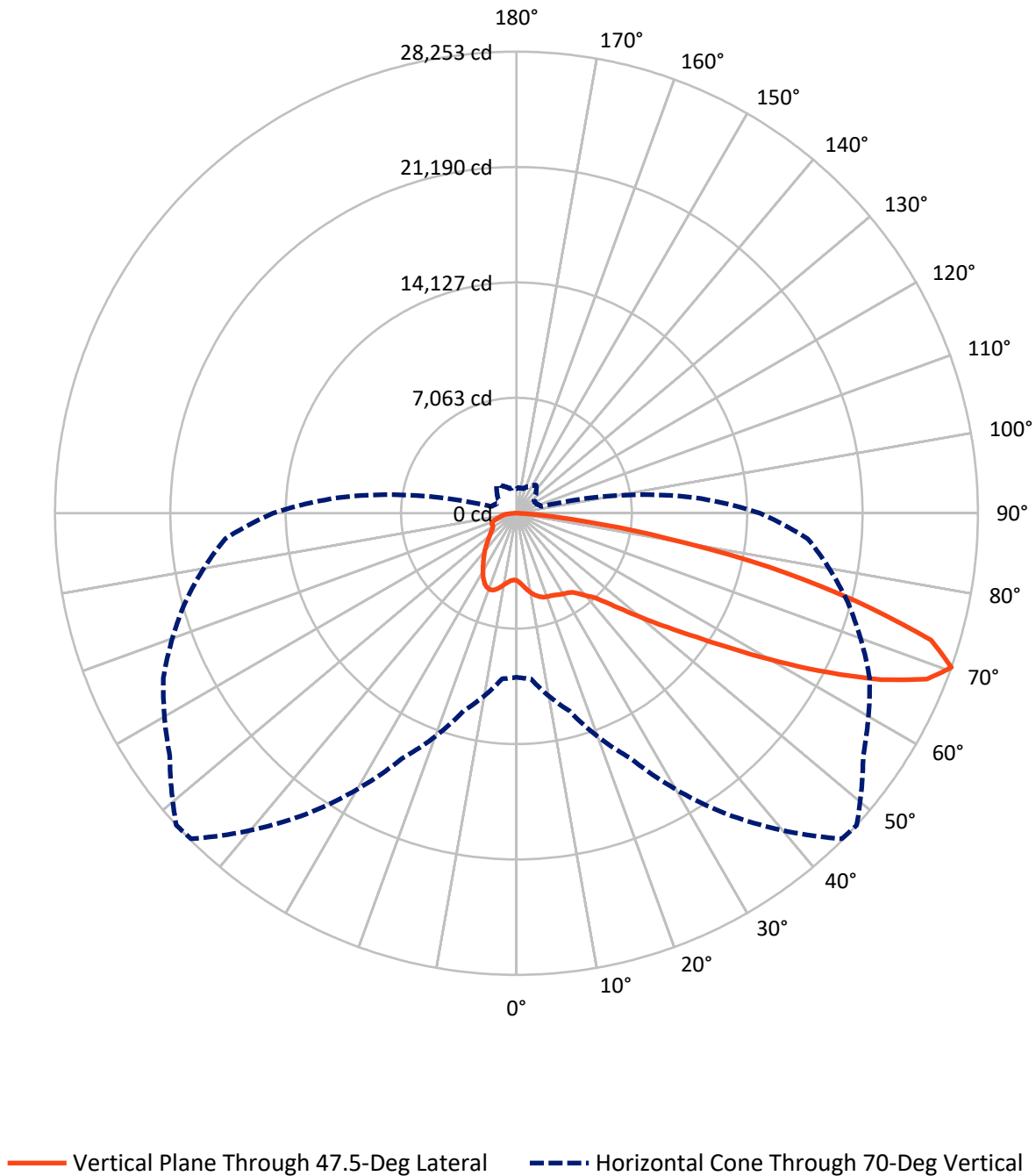


Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P522918

CATALOG NUMBER: GALN-SA9B-830-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P522918

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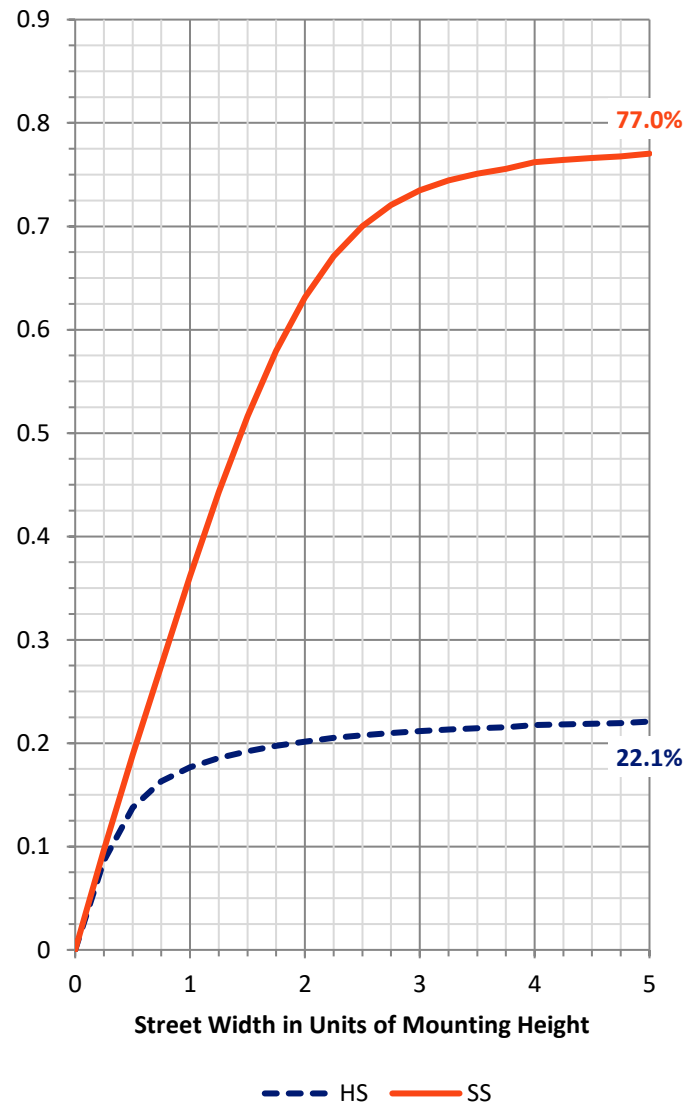
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9288.0	0.0	9288.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	31733.1	0.0	31733.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	41021.0	0.0	41021.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.5	1.0
10°-20°	1419.1	3.5
20°-30°	2359.9	5.8
30°-40°	3344.8	8.2
40°-50°	4937.7	12.0
50°-60°	8552.2	20.8
60°-70°	12080.3	29.4
70°-80°	6944.4	16.9
80°-90°	958.2	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°	41021.0	100.0
0°-180°	41021.0	100.0

Coefficient of Utilization



REPORT NUMBER: P522918

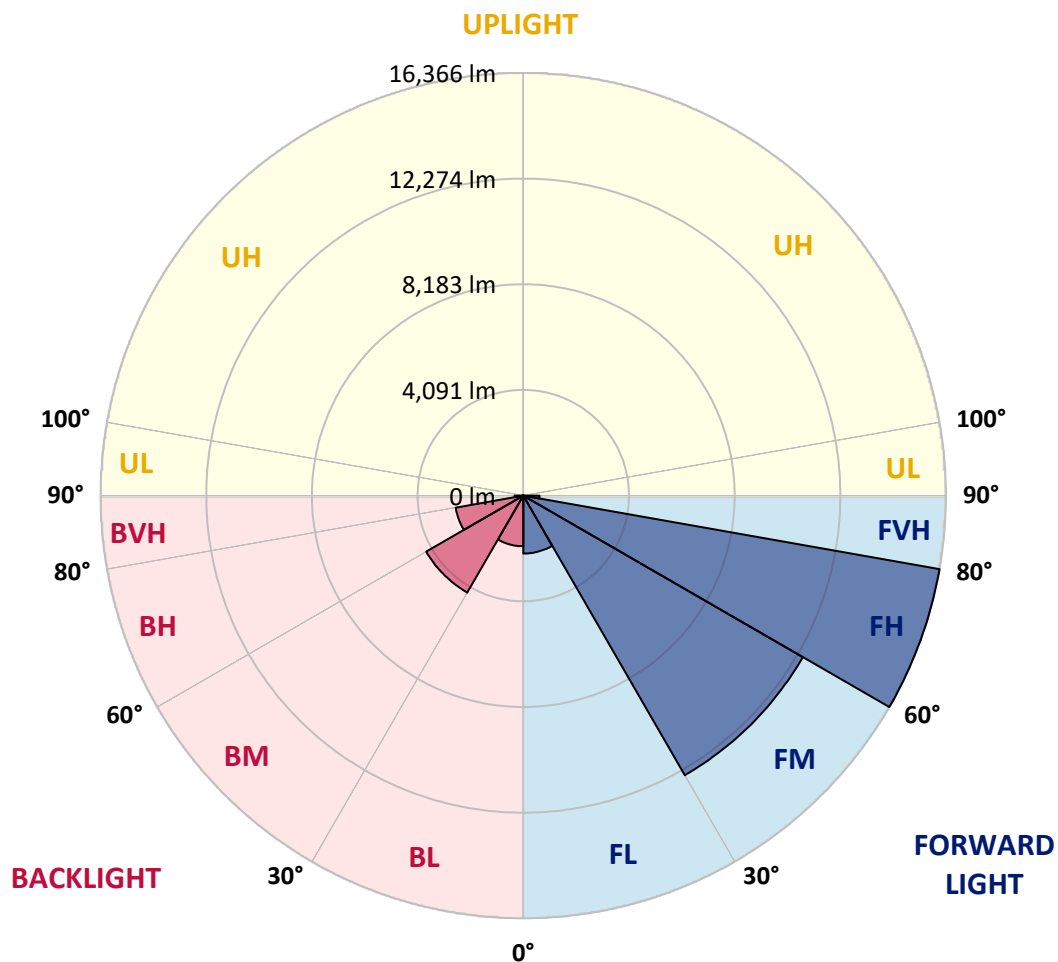
CATALOG NUMBER: GALN-SA9B-830-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2243.2	5.5			
FM	(30°-60°)	12498.3	30.5			
FH	(60°-80°)	16365.7	39.9			G5
FVH	(80°-90°)	625.9	1.5			G4/750
BL	(0°-30°)	1960.3	4.8	B3/2500		
BM	(30°-60°)	4336.4	10.6	B3/5000		
BH	(60°-80°)	2659.0	6.5	B4/5000		G4/5000
BVH	(80°-90°)	332.3	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





REPORT NUMBER: P522918

CATALOG NUMBER: GALN-SA9B-830-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	4118.0	4118.0	4118.0	4118.0	4118.0	4118.0	4118.0	4118.0	4118.0	4118.0	4118.0
2.5°	4383.6	4368.3	4366.1	4333.1	4315.6	4282.6	4269.5	4238.7	4201.4	4164.1	4129.0
5°	4728.3	4728.3	4712.9	4666.8	4594.4	4519.7	4486.8	4427.5	4322.2	4236.6	4164.1
7.5°	5081.7	5086.1	5055.3	4987.3	4884.1	4763.4	4732.6	4644.8	4495.6	4370.5	4262.9
10°	5386.8	5386.8	5345.1	5252.9	5123.4	4991.7	4960.9	4862.2	4695.3	4539.5	4399.0
12.5°	5619.5	5619.5	5564.6	5443.9	5303.4	5184.8	5149.7	5055.3	4899.5	4726.1	4548.3
15°	5770.9	5760.0	5698.5	5562.4	5426.3	5323.1	5299.0	5220.0	5077.3	4901.7	4701.9
17.5°	5777.5	5773.1	5713.9	5599.7	5481.2	5410.9	5395.6	5342.9	5230.9	5064.1	4853.4
20°	5650.2	5659.0	5619.5	5538.2	5481.2	5450.4	5443.9	5426.3	5347.3	5191.4	4980.7
22.5°	5514.1	5529.5	5492.1	5448.2	5443.9	5474.6	5479.0	5483.4	5432.9	5281.4	5088.3
25°	5481.2	5492.1	5454.8	5415.3	5439.5	5520.7	5538.2	5555.8	5516.3	5389.0	5215.6
27.5°	5648.0	5639.2	5566.8	5481.2	5496.5	5606.3	5630.4	5650.2	5630.4	5520.7	5373.6
30°	6119.9	6091.4	5946.5	5696.3	5617.3	5694.1	5718.2	5773.1	5773.1	5691.9	5544.8
32.5°	6910.2	6855.3	6589.7	6098.0	5823.6	5777.5	5801.7	5891.7	5937.8	5874.1	5713.9
35°	7869.4	7812.4	7432.6	6771.9	6201.2	5944.3	5937.8	6038.7	6161.7	6019.0	5810.4
37.5°	8833.1	8773.8	8317.2	7575.3	6752.1	6295.6	6256.0	6291.2	6343.9	6082.6	5944.3
40°	9796.7	9726.5	9327.0	8473.1	7426.0	6760.9	6657.7	6499.7	6477.8	6291.2	6203.4
42.5°	10751.6	10688.0	10486.0	9480.7	8233.8	7215.3	7057.3	6785.1	6868.5	6756.5	6679.7
45°	11715.3	11719.7	11504.5	10611.1	9208.5	8053.8	7840.9	7415.1	7612.6	7570.9	7614.8
47.5°	12569.2	12558.2	12481.4	11708.7	10418.0	9133.8	8859.4	8365.5	8703.6	8857.2	9193.1
50°	13396.7	13390.1	13394.5	12953.3	11822.8	10418.0	10115.0	9597.0	10358.7	10892.1	11493.6
52.5°	14582.1	14619.4	14353.8	14237.4	13530.6	11934.8	11601.1	11065.5	12314.5	13155.3	14329.6
55°	15771.8	15741.1	15532.6	15653.3	15317.4	13730.4	13381.4	12955.5	14492.1	15411.8	17176.7
57.5°	16472.1	16483.0	16696.0	17286.4	17523.5	15969.4	15653.3	15324.0	16939.6	17591.6	19709.8
60°	17102.1	17152.5	17765.0	18880.1	19523.3	18719.8	18438.9	18118.4	19185.2	19444.2	21909.3
62.5°	17299.6	17455.5	18524.5	20192.8	21472.5	21823.7	21474.7	20767.9	21323.2	21222.3	23399.8
65°	16314.0	16526.9	18443.3	20684.5	23213.2	24769.6	24547.8	23235.2	23145.2	22537.1	23643.5
67.5°	13719.4	13932.3	16393.0	19652.8	23933.2	27320.3	27098.6	25035.2	24251.5	22660.1	21799.6
70°	10038.2	10172.1	12525.3	16546.7	22486.6	28176.4	28253.2	25913.2	23856.4	20989.6	17898.9
72.5°	5784.1	6080.4	7729.0	11640.6	18370.8	26012.0	26545.4	24086.9	21358.4	17510.3	12514.3
75°	2487.1	2493.6	3573.6	6420.7	12441.8	20908.4	21424.2	19966.7	16772.8	12108.2	6681.9
77.5°	1183.2	1205.1	1571.7	2866.8	6848.7	14446.0	15837.7	14105.7	10727.5	5817.0	2524.4
80°	768.3	783.7	961.5	1422.4	3358.5	8376.5	9346.8	8137.2	4732.6	2078.8	1088.8
82.5°	465.4	469.8	643.2	869.3	1848.3	3793.1	4471.4	3531.9	2019.5	1244.6	641.0
85°	283.2	285.4	390.7	537.8	1121.7	1310.5	1345.6	1334.6	1185.4	814.4	342.4
87.5°	136.1	140.5	201.9	254.6	441.2	406.1	384.1	445.6	559.8	439.0	147.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P522918

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4118.0	4118.0	4118.0	4118.0	4118.0	4118.0	4118.0	4118.0	4118.0	4118.0	4118.0
2.5°	4113.6	4107.0	4091.7	4085.1	4080.7	4082.9	4080.7	4080.7	4082.9	4082.9	4082.9
5°	4133.4	4122.4	4098.3	4098.3	4111.4	4142.2	4170.7	4192.6	4216.8	4214.6	4214.6
7.5°	4219.0	4199.2	4170.7	4179.5	4212.4	4260.7	4311.2	4359.5	4407.8	4412.2	4410.0
10°	4344.1	4324.4	4293.6	4304.6	4357.3	4429.7	4493.4	4563.6	4616.3	4631.7	4627.3
12.5°	4486.8	4447.3	4420.9	4451.7	4535.1	4631.7	4693.1	4745.8	4783.1	4805.1	4796.3
15°	4631.7	4594.4	4563.6	4627.3	4728.3	4818.3	4849.0	4857.8	4864.4	4886.3	4881.9
17.5°	4772.2	4721.7	4710.7	4794.1	4890.7	4930.2	4912.6	4875.3	4846.8	4864.4	4862.2
20°	4897.3	4857.8	4853.4	4936.8	4974.1	4936.8	4862.2	4796.3	4745.8	4750.2	4748.0
22.5°	5015.8	4985.1	4989.5	5024.6	4965.3	4838.0	4715.1	4625.1	4570.2	4581.2	4587.8
25°	5147.5	5116.8	5127.8	5070.7	4875.3	4653.6	4475.8	4399.0	4377.0	4399.0	4414.4
27.5°	5318.7	5299.0	5292.4	5072.9	4715.1	4381.4	4179.5	4150.9	4170.7	4219.0	4243.1
30°	5503.1	5503.1	5468.0	5035.6	4495.6	4054.4	3878.7	3883.1	3951.2	4019.2	4043.4
32.5°	5680.9	5718.2	5608.5	4934.6	4212.4	3736.1	3602.2	3606.6	3665.8	3749.2	3771.2
35°	5828.0	5935.6	5729.2	4750.2	3878.7	3468.3	3367.3	3308.0	3310.2	3373.9	3391.4
37.5°	6030.0	6229.7	5799.5	4475.8	3523.1	3240.0	3125.8	3022.7	2954.6	2928.3	2928.3
40°	6381.2	6675.3	5817.0	4069.7	3187.3	3022.7	2860.2	2737.3	2605.6	2487.1	2465.1
42.5°	6976.0	7347.0	5781.9	3602.2	2884.4	2783.4	2625.3	2473.9	2291.7	2124.9	2111.7
45°	8029.7	8220.7	5687.5	3117.0	2614.4	2552.9	2399.2	2234.6	2041.4	1892.2	1881.2
47.5°	9717.7	9447.7	5562.4	2686.8	2368.5	2351.0	2232.4	2041.4	1848.3	1745.1	1734.1
50°	12182.8	11379.4	5544.8	2375.1	2171.0	2179.7	2083.2	1907.5	1738.5	1652.9	1639.7
52.5°	15150.6	13712.8	5661.2	2155.6	1997.5	2030.5	1982.2	1819.7	1670.5	1598.0	1584.9
55°	18030.6	15811.3	5731.4	1984.4	1835.1	1896.6	1903.2	1767.1	1631.0	1558.5	1549.7
57.5°	20368.4	17391.8	5419.7	1828.5	1694.6	1789.0	1837.3	1736.3	1611.2	1556.3	1547.5
60°	21994.9	18138.1	4532.9	1690.2	1591.5	1703.4	1813.2	1738.5	1659.5	1666.1	1670.5
62.5°	22513.0	17806.7	3400.2	1587.1	1521.2	1674.9	1852.7	1828.5	1747.3	1797.8	1806.6
65°	21654.7	16436.9	2465.1	1505.8	1459.7	1694.6	1971.2	1894.4	1716.6	1753.9	1753.9
67.5°	18781.3	14160.6	1918.5	1431.2	1389.5	1731.9	2089.7	1887.8	1644.1	1688.0	1648.5
70°	14898.2	10953.6	1598.0	1347.8	1314.9	1677.1	2100.7	1819.7	1558.5	1567.3	1492.7
72.5°	9886.7	7202.1	1374.1	1268.8	1200.7	1508.0	2010.7	1731.9	1475.1	1424.6	1350.0
75°	4844.6	3591.2	1198.5	1170.0	1051.5	1312.7	1887.8	1648.5	1385.1	1306.1	1264.4
77.5°	1876.8	1527.8	1022.9	1044.9	915.4	1156.8	1725.4	1530.0	1266.6	1159.0	1126.1
80°	911.0	867.1	838.5	871.5	752.9	985.6	1576.1	1426.8	1156.8	1038.3	990.0
82.5°	566.3	535.6	643.2	678.3	579.5	900.0	1494.9	1339.0	1018.5	860.5	821.0
85°	287.6	307.3	430.2	463.2	414.9	715.6	1231.5	1005.4	735.4	610.2	614.6
87.5°	109.8	147.1	226.1	243.7	221.7	377.6	678.3	586.1	471.9	320.5	296.3
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)