

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: P651525

Luminaire Tested: **GALN-SA7D-840-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651525  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7D-840-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33875.5 lumens  
Efficiency: N/A  
Efficacy: 78.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

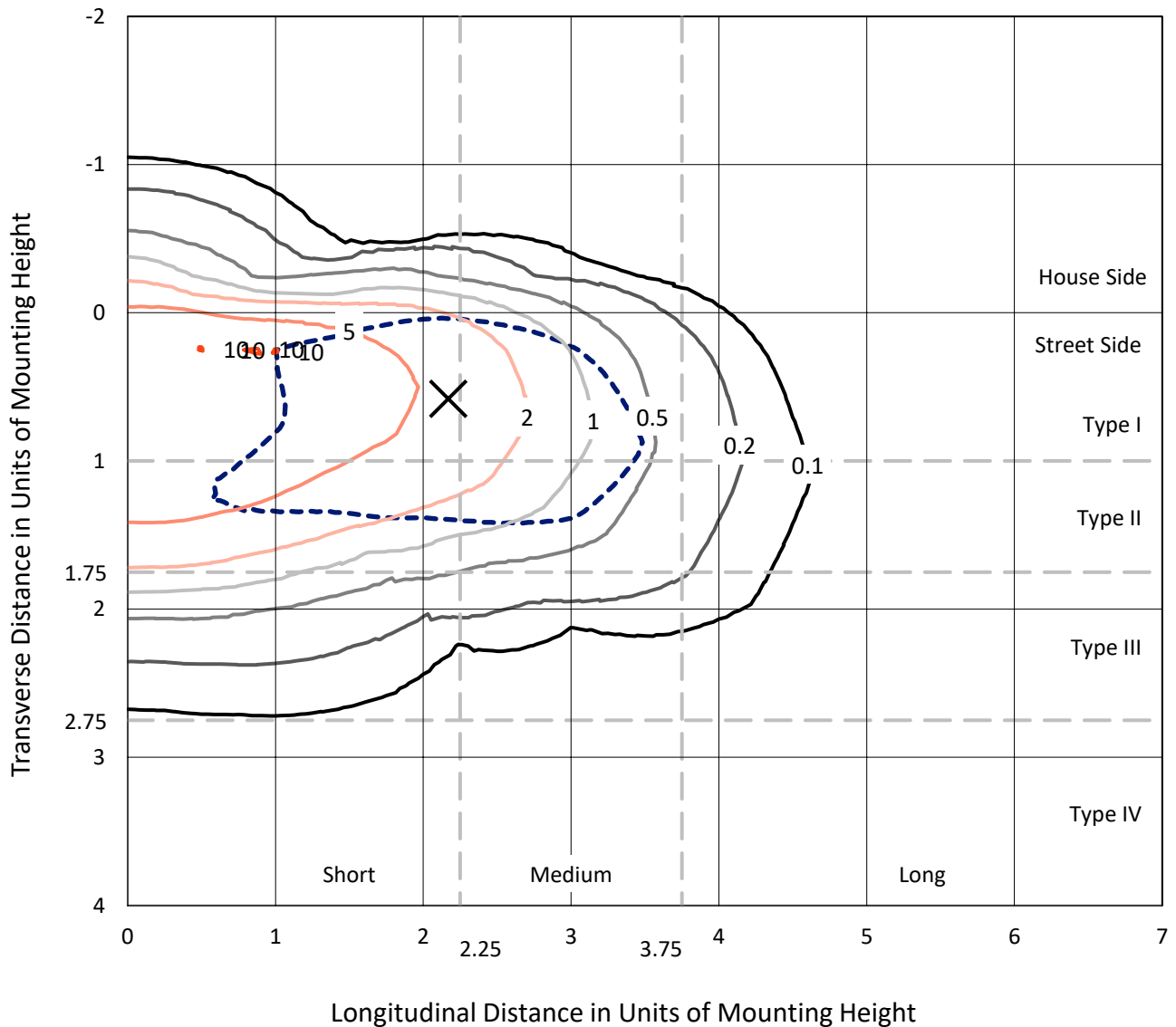
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

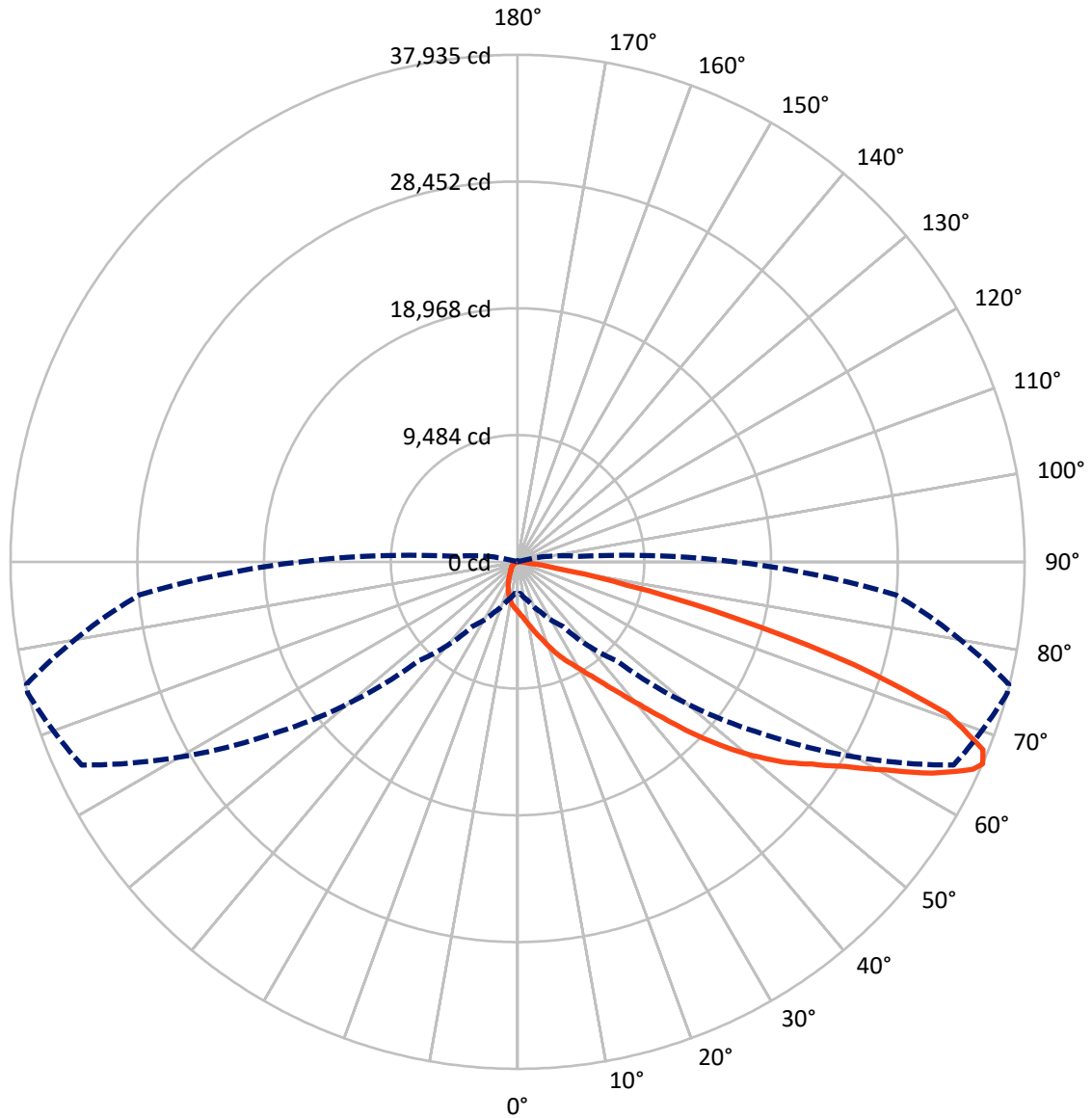
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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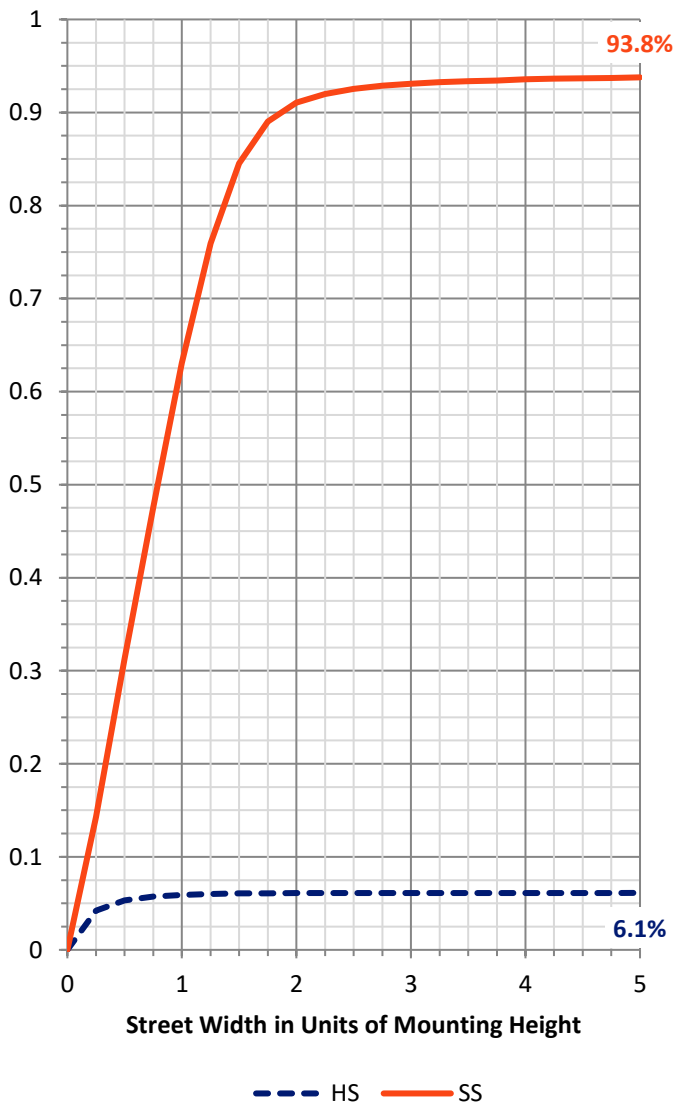
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2091.3	0.0	2091.3
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	31784.2	0.0	31784.2
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	33875.5	0.0	33875.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	357.3	1.1
10°-20°	1051.6	3.1
20°-30°	1815.9	5.4
30°-40°	3275.5	9.7
40°-50°	5917.2	17.5
50°-60°	9225.0	27.2
60°-70°	8763.4	25.9
70°-80°	3284.3	9.7
80°-90°	185.3	0.5
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°	33875.5	100.0
0°-180°	33875.5	100.0

**Coefficient of Utilization**

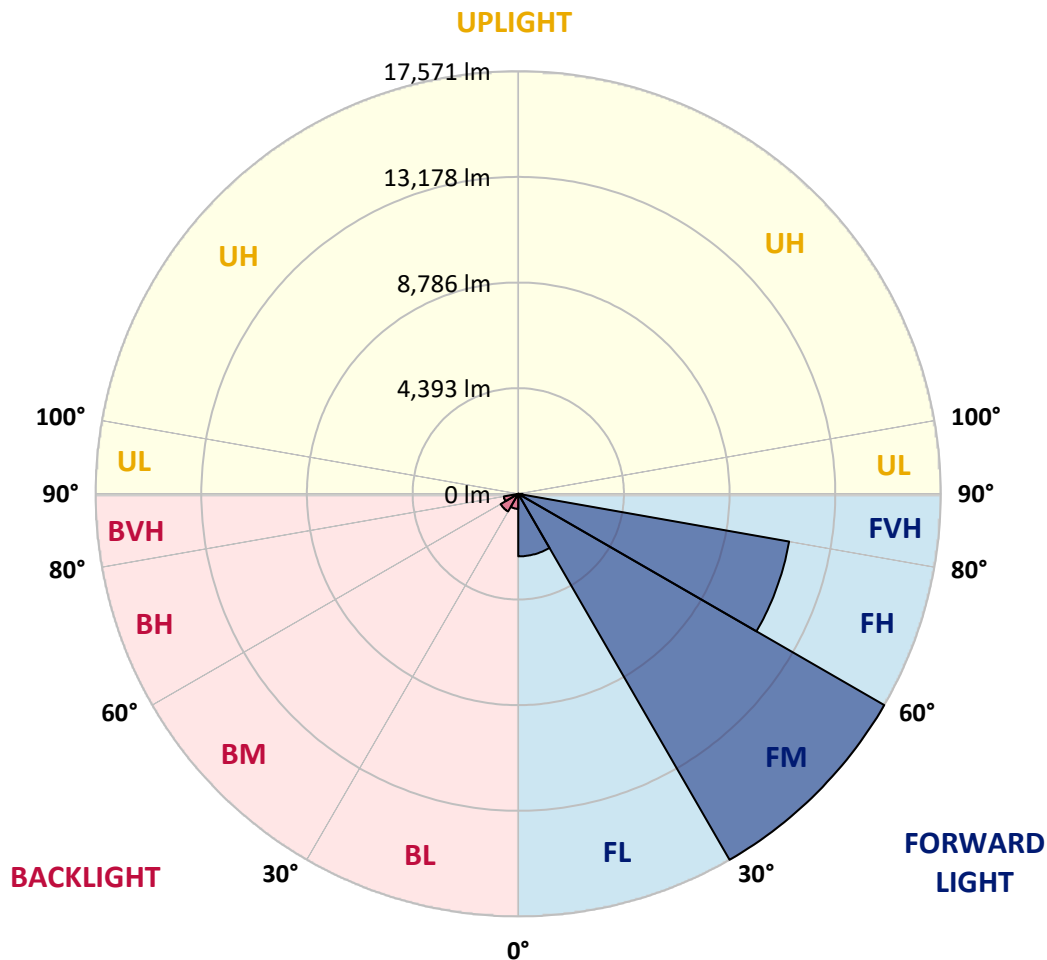


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2600.2	7.7			
FM (30°-60°)	17571.2	51.9			
FH (60°-80°)	11437.0	33.8			G4/12000
FVH (80°-90°)	175.7	0.5			G2/225
BL (0°-30°)	624.6	1.8	B2/1000		
BM (30°-60°)	846.5	2.5	B1/1000		
BH (60°-80°)	610.7	1.8	B2/1000		G2/1000
BVH (80°-90°)	9.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3704.6	3704.6	3704.6	3704.6	3704.6	3704.6	3704.6	3704.6	3704.6	3704.6	3704.6
2.5°	4426.0	4370.9	4388.4	4363.4	4305.8	4220.6	4145.5	4037.7	3930.1	3912.5	3792.3
5°	5009.6	4994.6	4974.6	4901.9	4861.8	4731.6	4576.3	4390.9	4168.0	4128.0	3910.0
7.5°	5407.9	5400.4	5410.4	5372.8	5337.7	5220.0	5054.7	4801.7	4456.0	4433.5	4070.4
10°	5538.2	5558.2	5595.8	5655.9	5711.0	5673.4	5548.2	5232.5	4829.3	4764.2	4253.2
12.5°	5463.0	5485.5	5575.7	5736.0	5913.8	6016.6	5966.5	5736.0	5225.0	5172.4	4458.6
15°	5270.1	5297.7	5425.5	5673.4	5991.5	6282.1	6407.3	6242.0	5685.9	5600.7	4706.6
17.5°	4984.6	5024.6	5207.5	5535.6	5971.4	6472.4	6825.6	6770.5	6176.9	6096.7	4977.0
20°	4769.1	4799.3	4954.5	5330.3	5886.3	6577.6	7223.9	7379.2	6783.0	6645.2	5295.2
22.5°	4911.9	4922.0	4974.6	5200.0	5733.5	6605.2	7574.6	8012.9	7426.8	7304.0	5625.8
25°	5610.8	5510.6	5458.0	5407.9	5701.0	6580.2	7892.7	8674.2	8068.0	7937.8	5953.9
27.5°	6712.9	6667.8	6402.3	6046.6	5979.0	6612.7	8103.0	9300.4	8671.6	8531.4	6274.5
30°	7912.7	7835.1	7672.3	7151.3	6627.8	6843.1	8255.8	9909.1	9385.6	9200.2	6567.6
32.5°	9014.8	9064.9	8821.9	8286.0	7679.8	7334.1	8453.7	10572.8	10204.6	9974.2	6908.3
35°	10299.8	10400.0	10026.7	9513.3	8804.4	8220.8	8839.5	11321.8	11244.1	10953.5	7434.3
37.5°	11604.8	11664.9	11437.0	10715.6	10076.9	9348.0	9565.9	12246.1	12524.1	12276.1	8063.0
40°	12701.9	12784.5	12616.8	11975.5	11294.2	10652.9	10620.4	13253.0	14047.0	13791.5	8999.8
42.5°	13541.0	13603.7	13608.6	13155.3	12541.6	12251.0	11965.5	14537.9	15955.6	15660.1	10086.9
45°	14600.5	14690.8	14638.1	14330.1	13871.6	13819.1	13671.3	16090.9	18240.0	17866.8	11497.1
47.5°	16238.7	16298.8	16168.6	15805.3	15339.5	15422.2	15334.5	17831.7	20569.5	20248.9	12957.4
50°	17375.9	17476.1	17661.4	17806.7	17468.6	17163.0	16902.5	19457.4	22781.3	22493.2	14450.2
52.5°	17363.4	17528.7	18114.8	18846.2	19585.1	19492.4	18743.5	21253.3	24892.8	24537.2	15852.9
55°	16193.6	16514.2	17375.9	18673.4	20719.8	21739.3	21398.7	23332.4	26716.3	26475.9	17478.6
57.5°	13778.9	13974.4	15171.6	16985.2	20086.1	22796.3	24474.5	26150.2	28903.1	28790.3	20003.4
60°	9267.8	9355.5	10895.9	13137.8	17100.4	21741.8	26728.8	29559.3	31595.7	31540.6	22951.6
62.5°	5310.2	5347.8	6464.9	8356.1	12168.3	18425.4	26919.2	33764.9	34824.4	34854.5	26363.2
65°	2858.0	2878.1	3779.8	4904.5	7404.2	13132.7	24206.5	36069.3	37434.4	37492.0	28477.2
66°	2467.2	2372.0	3008.3	4180.5	5891.3	10452.6	22490.7	35986.6	37935.4	37872.8	28402.1
67.5°	1876.1	1961.3	2402.1	3213.7	4365.9	7431.7	18568.2	34386.1	37554.7	37359.3	27247.4
70°	1342.6	1377.6	1710.8	2291.9	2973.2	4077.8	11865.3	28559.9	34133.1	33870.1	23738.2
72.5°	866.7	904.2	1212.3	1658.2	2149.1	2226.8	6642.7	20634.7	26315.6	26278.0	17876.9
75°	618.7	653.8	801.6	1187.2	1615.6	1377.6	3198.7	13906.7	16729.7	16616.9	11058.7
77.5°	448.3	465.9	536.1	776.5	1154.7	986.9	1482.9	7426.8	8328.5	8721.8	4886.9
80°	258.0	273.0	373.2	473.4	781.5	673.8	708.9	2980.8	3073.4	2925.6	1527.9
82.5°	127.7	145.2	222.9	323.1	488.5	453.4	325.6	896.8	946.8	921.7	385.8
85°	30.0	37.6	125.2	212.9	237.9	202.8	157.8	263.0	325.6	318.2	147.8
87.5°	2.5	5.0	45.1	37.6	40.1	67.6	55.1	67.6	105.2	97.7	52.6
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°	3704.6	3704.6	3704.6	3704.6	3704.6	3704.6	3704.6	3704.6	3704.6	3704.6	3704.6
2.5°	3737.2	3689.6	3551.8	3416.6	3303.9	3186.1	3078.4	3015.8	2990.8	2963.2	2975.7
5°	3789.8	3674.6	3396.5	3156.1	2920.6	2720.2	2559.9	2457.2	2407.1	2399.6	2387.1
7.5°	3859.9	3662.1	3231.2	2855.4	2547.4	2324.4	2141.6	1993.8	1948.8	1908.6	1876.1
10°	3945.0	3639.5	3025.8	2539.9	2211.7	1931.2	1690.7	1515.4	1425.2	1400.2	1417.8
12.5°	4035.3	3596.9	2810.4	2249.3	1871.1	1512.9	1290.0	1202.3	1177.2	1167.2	1169.7
15°	4125.4	3544.3	2585.0	1968.8	1490.3	1207.3	1104.7	1082.1	1072.0	1067.1	1062.0
17.5°	4208.1	3459.1	2332.0	1695.8	1207.3	1032.0	994.4	974.4	954.4	946.8	934.3
20°	4305.8	3361.5	2104.0	1390.2	1022.0	934.3	889.2	851.6	821.6	801.6	799.0
22.5°	4398.4	3236.3	1866.1	1152.3	931.8	839.1	766.5	726.4	691.3	666.2	673.8
25°	4448.6	3083.4	1653.2	1004.4	849.2	743.9	663.8	613.7	576.1	563.6	561.1
27.5°	4448.6	2895.6	1445.3	919.3	774.0	658.8	576.1	528.5	503.5	485.9	488.5
30°	4413.5	2687.7	1252.4	854.1	708.9	583.7	505.9	463.4	443.4	430.8	428.3
32.5°	4385.9	2489.8	1087.1	791.5	641.3	518.5	450.9	418.3	398.3	385.8	385.8
35°	4428.5	2319.5	959.3	728.9	578.6	468.4	408.3	378.2	358.2	348.2	345.7
37.5°	4541.2	2164.1	861.7	661.3	521.0	425.8	378.2	343.1	323.1	310.6	305.6
40°	4819.3	2076.5	789.0	598.6	465.9	390.7	343.1	310.6	285.5	273.0	270.5
42.5°	5265.1	2079.0	718.9	541.0	423.3	360.7	313.1	275.5	248.0	235.5	233.0
45°	5936.4	2174.2	663.8	485.9	385.8	328.2	280.6	240.4	215.4	202.8	202.8
47.5°	6740.4	2359.5	616.2	438.3	350.7	298.1	248.0	207.9	182.8	172.8	172.8
50°	7612.1	2600.0	568.6	388.2	320.6	265.5	212.9	180.3	160.3	152.8	152.8
52.5°	8501.3	2890.5	521.0	348.2	288.0	230.4	182.8	160.3	142.8	137.8	135.2
55°	9668.6	3261.2	470.9	305.6	253.0	197.9	162.8	140.3	120.3	112.7	110.2
57.5°	11464.5	3819.8	415.8	268.0	207.9	165.3	140.3	117.7	95.2	82.7	80.1
60°	13631.2	4501.1	358.2	235.5	167.9	135.2	112.7	90.2	70.1	55.1	52.6
62.5°	15660.1	4934.5	303.1	197.9	132.8	102.7	80.1	67.6	50.1	35.1	32.5
65°	16556.9	4789.2	250.4	160.3	105.2	72.7	52.6	47.6	30.0	15.1	12.5
66°	16258.7	4573.8	230.4	145.2	95.2	62.7	45.1	40.1	22.5	7.5	7.5
67.5°	15379.5	4065.3	200.4	125.2	82.7	50.1	35.1	30.0	12.5	2.5	0.0
70°	13177.8	3288.8	157.8	92.7	60.1	35.1	20.0	15.1	7.5	0.0	0.0
72.5°	10121.9	2449.7	125.2	70.1	42.6	20.0	10.0	5.0	7.5	0.0	0.0
75°	6202.0	1400.2	97.7	52.6	27.6	12.5	7.5	0.0	7.5	2.5	0.0
77.5°	2752.8	628.7	65.1	35.1	20.0	10.0	5.0	0.0	5.0	2.5	0.0
80°	696.3	205.4	37.6	25.1	15.1	7.5	2.5	0.0	5.0	5.0	2.5
82.5°	190.4	75.2	27.6	20.0	12.5	7.5	2.5	0.0	5.0	5.0	5.0
85°	75.2	35.1	25.1	20.0	15.1	7.5	2.5	0.0	5.0	5.0	5.0
87.5°	35.1	25.1	25.1	22.5	17.5	7.5	2.5	0.0	5.0	2.5	5.0
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)