

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: P647128

Luminaire Tested: **GALN-SA8C-835-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647128  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-835-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35588.9 lumens  
Efficiency: N/A  
Efficacy: 83.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

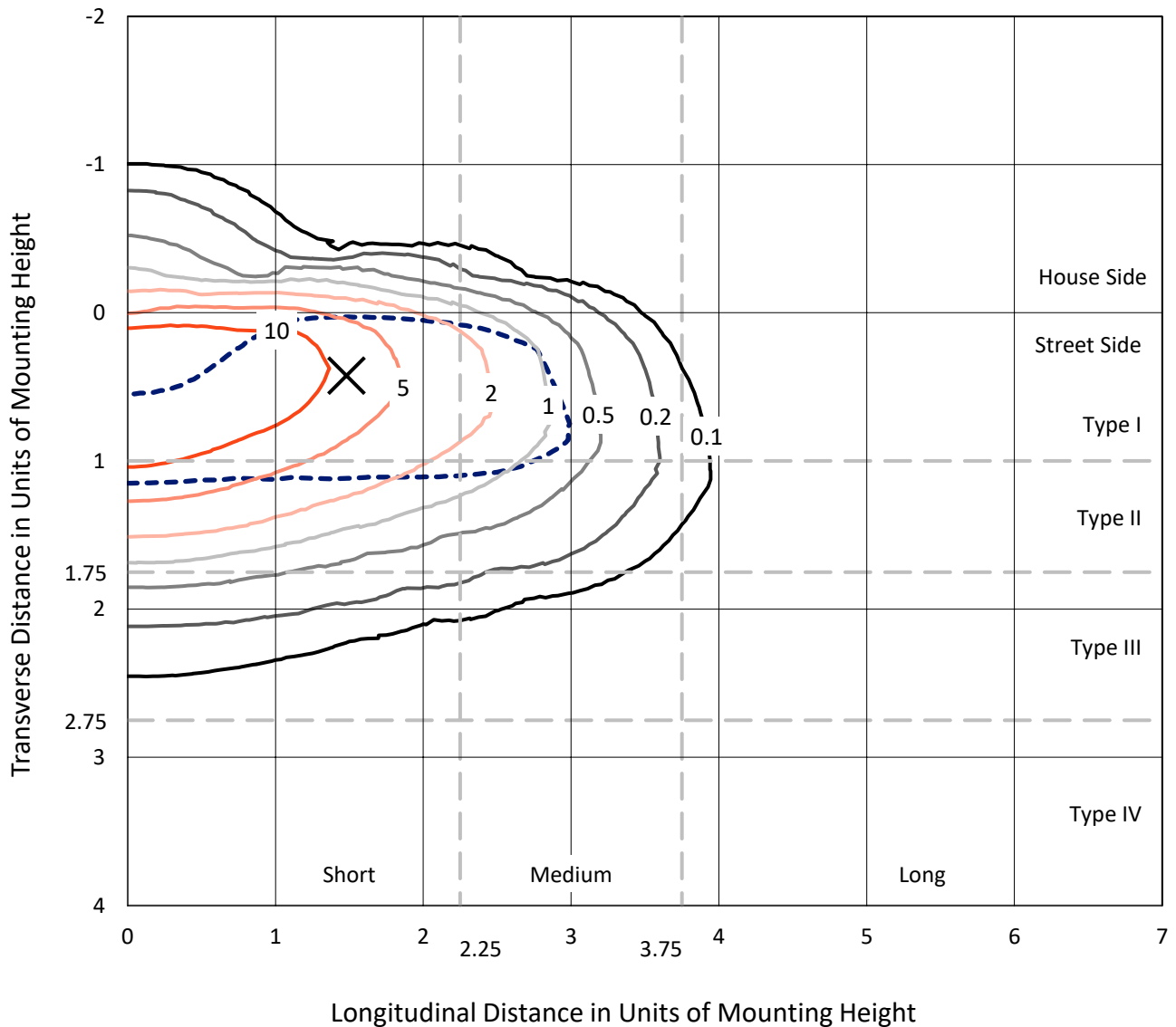
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

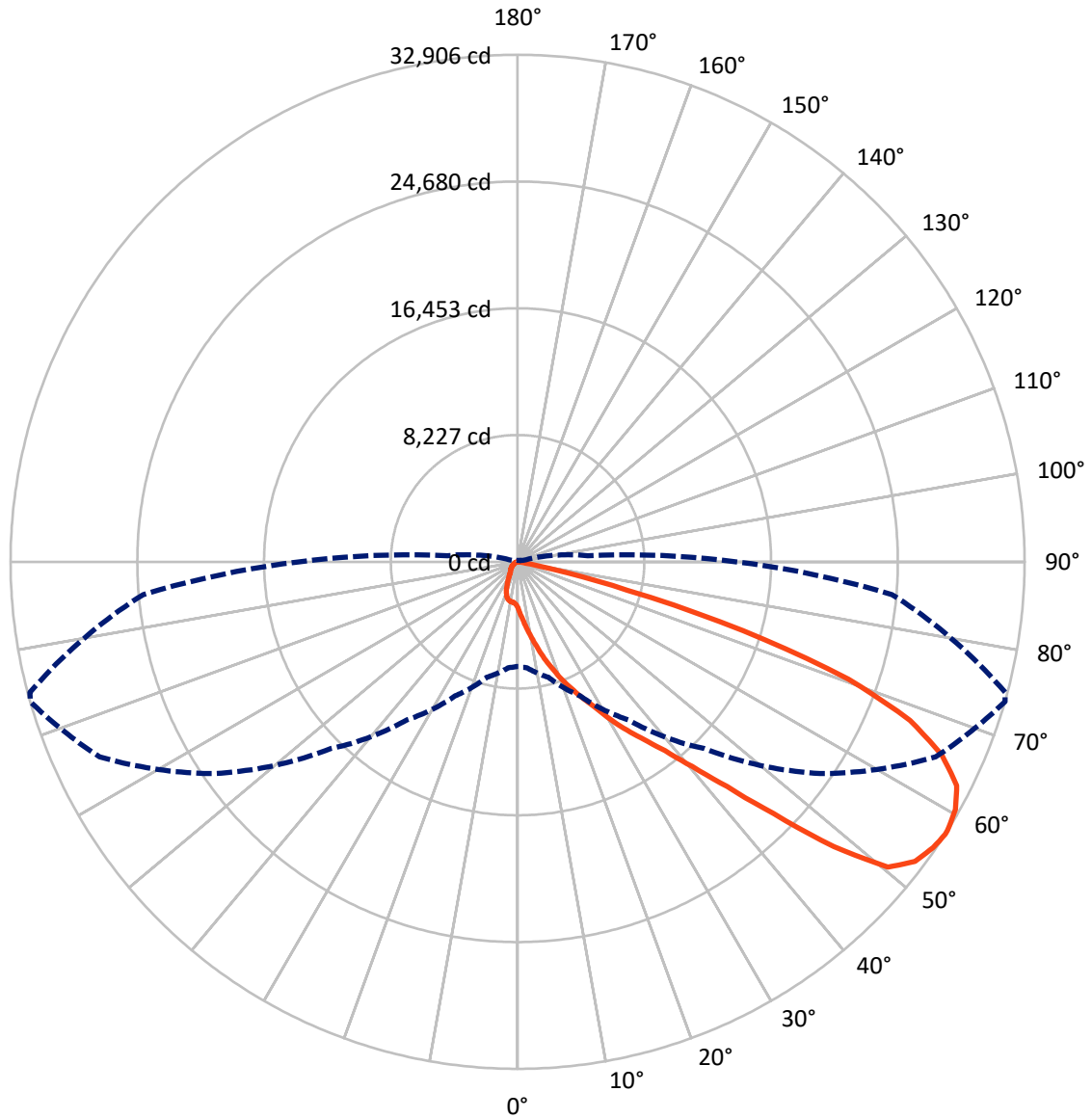
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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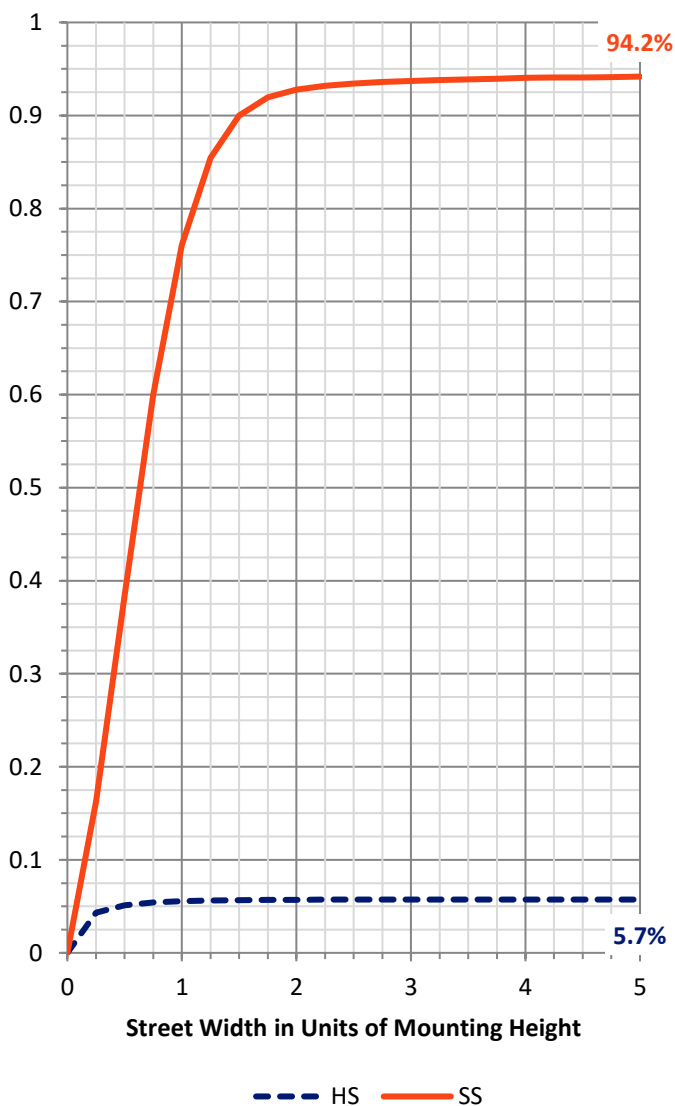
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2052.7	0.0	2052.7
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	33536.3	0.0	33536.3
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	35588.9	0.0	35588.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	359.8	1.0
10°-20°	1418.0	4.0
20°-30°	3034.2	8.5
30°-40°	5576.8	15.7
40°-50°	8549.4	24.0
50°-60°	9044.1	25.4
60°-70°	5906.0	16.6
70°-80°	1613.7	4.5
80°-90°	86.9	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°	35588.9	100.0
0°-180°	35588.9	100.0

**Coefficient of Utilization**



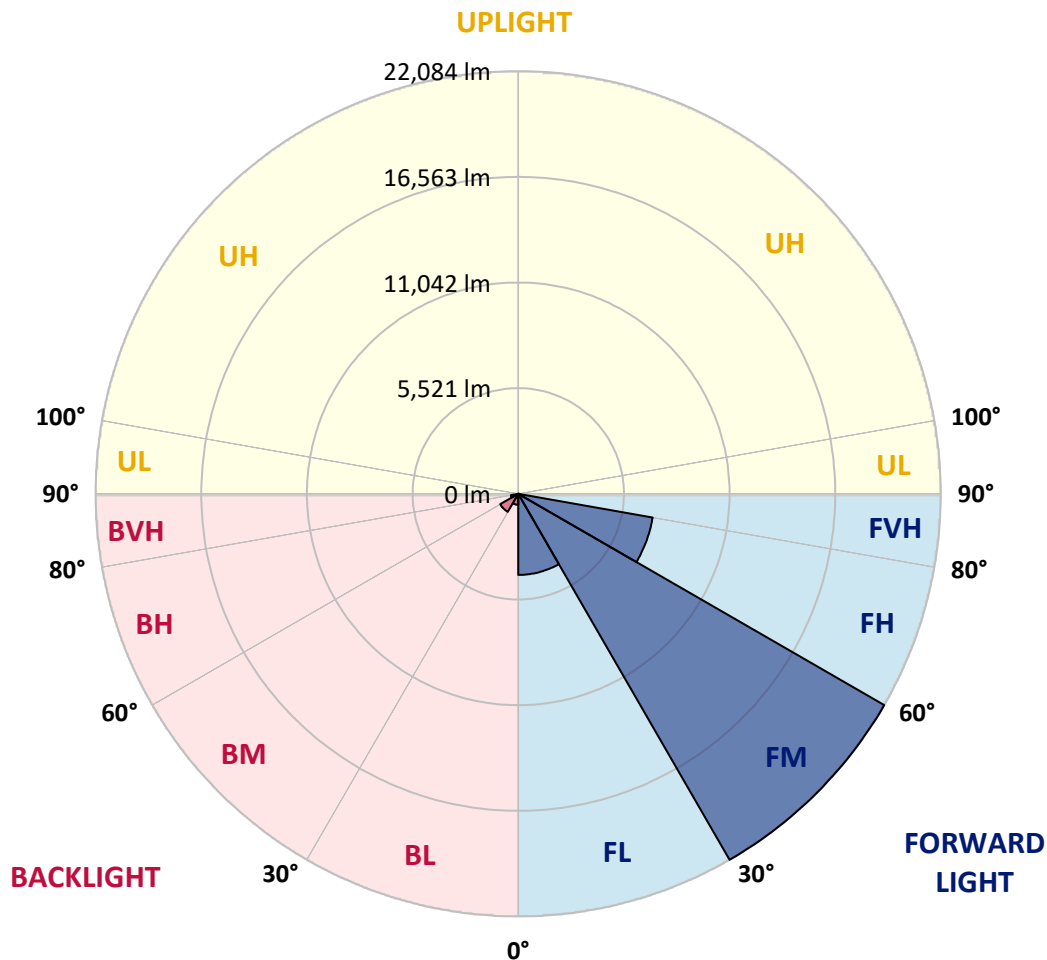
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4238.6	11.9			
FM (30°-60°)	22083.6	62.1			
FH (60°-80°)	7134.4	20.0			G3/7500
FVH (80°-90°)	79.7	0.2			G1/100
BL (0°-30°)	573.4	1.6	B2/1000		
BM (30°-60°)	1086.7	3.1	B2/2500		
BH (60°-80°)	385.4	1.1	B1/500		G1/500
BVH (80°-90°)	7.2	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2980.5	2980.5	2980.5	2980.5	2980.5	2980.5	2980.5	2980.5	2980.5	2980.5	2980.5
2.5°	4361.5	4322.2	4243.5	4216.5	4101.0	3921.6	3764.4	3553.0	3385.9	3368.8	3167.2
5°	5840.6	5752.2	5715.4	5538.4	5260.7	5000.3	4553.1	4214.0	3823.3	3793.9	3388.4
7.5°	7265.8	7142.9	7106.1	6939.0	6614.6	6204.3	5624.4	5007.7	4388.5	4331.9	3685.7
10°	8297.8	8315.0	8248.7	8138.1	7875.2	7457.4	6742.4	5899.6	5017.5	4946.2	4019.9
12.5°	9037.4	9035.0	9047.3	9044.7	8904.7	8587.7	7835.9	6865.3	5710.4	5570.3	4403.2
15°	9519.0	9526.4	9563.2	9691.0	9705.8	9509.1	8882.6	7789.2	6513.9	6339.5	4818.5
17.5°	10005.5	10057.1	10116.1	10236.5	10344.6	10266.0	9823.7	8752.4	7241.3	7111.0	5263.2
20°	10809.0	10880.3	10845.9	10919.6	10976.1	10983.5	10641.9	9641.9	8123.3	7904.6	5771.9
22.5°	12094.1	12091.6	12003.2	11870.5	11760.0	11755.0	11445.4	10555.9	8924.4	8713.1	6282.9
25°	13718.3	13725.7	13553.7	13175.2	12900.1	12563.4	12207.1	11356.9	9781.9	9521.4	6821.0
27.5°	15580.8	15534.1	15273.7	14752.7	14207.2	13632.3	13118.8	12288.2	10691.1	10474.8	7437.8
30°	17254.1	17236.9	16932.2	16295.8	15578.3	15000.9	14256.4	13455.4	11868.0	11602.7	8128.2
32.5°	18812.0	18836.6	18413.9	17755.4	17062.4	16396.6	15610.3	14570.9	13022.9	12646.9	8880.2
35°	20028.3	20052.8	19615.5	19067.5	18354.9	17802.1	17052.6	15760.1	14163.1	13846.0	9745.1
37.5°	20676.9	20708.9	20455.8	20043.0	19598.3	19320.6	18622.8	17291.0	15548.9	15357.2	10767.3
40°	20799.8	20836.6	20726.1	20615.5	20590.9	20790.0	20586.0	19094.6	17470.4	17170.6	12290.7
42.5°	20431.2	20480.4	20529.5	20775.2	21276.5	22006.2	22716.4	21541.8	19944.7	19541.7	14153.2
45°	19463.1	19458.2	19652.3	20288.7	21411.6	22969.5	24942.5	24605.9	23315.9	22836.7	16784.8
47.5°	17807.0	17782.4	18202.6	19109.3	20858.7	23146.3	26758.4	28326.0	27618.4	27176.1	19613.0
50°	15283.5	15403.9	16064.9	17330.3	19485.2	22610.7	27318.6	30766.0	31149.3	30680.0	21898.2
52.5°	12327.6	12322.6	13359.5	15077.1	17450.7	21431.3	26927.9	31208.3	32296.8	31938.1	23023.5
55°	9123.4	9187.3	10266.0	11998.3	14809.3	19278.8	25652.6	30753.7	32734.2	32481.1	23765.5
57°	6786.7	6899.7	7764.6	9597.6	12509.4	17148.5	23954.8	29940.4	32906.2	32768.6	24382.3
57.5°	6334.5	6339.5	7182.2	8848.2	11836.1	16330.2	23468.2	29601.3	32901.3	32825.1	24483.1
60°	3899.5	4022.3	4604.7	5980.7	8663.9	12745.3	20207.6	27652.8	32645.7	32756.3	24913.1
62.5°	2334.3	2385.9	2764.3	3604.6	5585.1	9302.7	16536.6	25158.8	31979.8	32316.4	24883.6
65°	1501.3	1513.6	1685.6	2182.0	3491.6	6287.9	12742.8	21863.7	30257.4	30876.6	23910.5
67.5°	1159.8	1179.4	1248.3	1432.5	2024.7	3916.7	9012.8	18347.6	27470.9	28269.5	21551.7
70°	1029.6	1039.4	1063.9	1122.9	1339.2	2211.4	5607.2	14332.6	22780.3	23006.3	16865.9
72.5°	840.3	867.4	943.5	963.2	1061.5	1380.9	3120.6	9619.8	15305.6	15362.1	9435.5
75°	651.1	656.1	769.1	825.6	894.4	951.0	1393.2	4850.5	7351.8	6958.7	3636.6
77.5°	486.5	508.6	560.2	631.5	729.8	680.7	624.1	1828.1	2282.7	2240.9	1056.6
80°	312.0	324.3	390.7	474.3	567.6	444.7	351.4	535.7	501.3	516.0	253.1
82.5°	157.2	159.7	250.6	385.8	361.2	223.6	221.1	218.7	186.7	184.3	117.9
85°	17.2	36.9	162.2	221.1	162.2	73.7	103.2	100.8	98.3	100.8	68.8
87.5°	2.4	2.4	27.0	31.9	22.1	24.6	29.5	31.9	39.3	36.9	29.5
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°	2980.5	2980.5	2980.5	2980.5	2980.5	2980.5	2980.5	2980.5	2980.5	2980.5	2980.5
2.5°	3069.0	2970.7	2788.9	2614.4	2484.1	2400.6	2292.5	2253.2	2196.7	2189.3	2162.3
5°	3201.7	3014.9	2698.0	2447.3	2245.8	2093.5	1960.8	1850.2	1761.8	1742.1	1752.0
7.5°	3390.9	3113.2	2670.9	2329.3	2049.3	1788.8	1577.5	1447.3	1353.9	1319.5	1324.4
10°	3604.6	3243.4	2666.0	2204.1	1776.5	1457.1	1226.1	1110.6	1056.6	1036.9	1014.8
12.5°	3857.8	3393.4	2653.7	2010.0	1476.7	1162.2	997.6	928.8	877.2	862.5	862.5
15°	4142.8	3553.0	2594.8	1769.2	1199.1	960.7	850.2	796.2	778.9	764.2	764.2
17.5°	4440.1	3710.3	2471.9	1471.8	995.1	823.2	754.3	722.4	697.8	680.7	680.7
20°	4779.2	3865.1	2275.3	1209.0	840.3	734.7	680.7	643.8	624.1	609.4	604.5
22.5°	5101.0	3990.4	2024.7	992.7	732.3	661.0	611.8	572.5	552.9	545.5	545.5
25°	5435.2	4066.6	1722.4	820.7	668.4	599.5	545.5	513.6	496.3	491.4	489.0
27.5°	5759.6	4110.8	1457.1	717.5	609.4	543.0	491.4	466.8	449.7	444.7	447.2
30°	6152.7	4118.2	1199.1	643.8	557.8	489.0	442.3	420.2	410.4	405.4	403.0
32.5°	6550.7	4108.3	1007.4	599.5	508.6	442.3	403.0	385.8	378.4	371.1	371.1
35°	6998.0	4056.7	857.5	555.3	462.0	403.0	368.6	353.8	344.0	336.6	334.2
37.5°	7553.3	4029.7	771.6	506.2	420.2	366.1	334.2	319.5	312.0	302.2	299.8
40°	8428.1	4150.1	744.6	462.0	378.4	331.7	302.2	285.0	275.2	265.4	262.9
42.5°	9519.0	4361.5	700.3	417.7	341.5	299.8	270.3	250.6	233.4	221.1	216.3
45°	10931.9	4639.1	631.5	371.1	309.6	265.4	238.3	213.8	191.7	181.8	179.4
47.5°	12413.5	4906.9	570.0	334.2	275.2	235.9	206.4	179.4	159.7	152.4	149.9
50°	13322.7	4961.0	530.7	292.4	240.8	204.0	174.5	149.9	137.6	130.2	130.2
52.5°	13738.0	4875.0	476.7	255.6	208.8	179.4	149.9	130.2	122.9	117.9	115.5
55°	14027.9	4742.3	405.4	221.1	179.4	152.4	132.7	117.9	108.1	103.2	100.8
57°	14197.4	4562.9	351.4	194.1	154.8	132.7	117.9	105.6	95.8	86.0	86.0
57.5°	14204.8	4494.1	336.6	191.7	147.4	127.8	115.5	103.2	90.9	81.1	78.6
60°	13986.1	4022.3	270.3	162.2	117.9	108.1	95.8	81.1	63.9	54.0	51.6
62.5°	13283.4	3422.8	223.6	137.6	95.8	83.5	68.8	61.5	44.2	31.9	31.9
65°	12219.4	2776.6	191.7	110.6	78.6	61.5	46.7	44.2	27.0	14.7	12.3
67.5°	10681.2	2162.3	162.2	90.9	66.3	44.2	31.9	29.5	14.7	4.9	0.0
70°	8138.1	1474.3	135.1	73.7	49.2	31.9	22.1	17.2	9.9	2.4	0.0
72.5°	4690.7	810.9	113.1	56.5	36.9	24.6	17.2	9.9	9.9	0.0	0.0
75°	1675.8	348.9	86.0	41.7	29.5	19.7	12.3	4.9	7.4	2.4	0.0
77.5°	533.2	186.7	56.5	31.9	24.6	14.7	9.9	4.9	4.9	2.4	0.0
80°	157.2	98.3	34.4	27.0	17.2	12.3	7.4	2.4	4.9	2.4	0.0
82.5°	86.0	49.2	27.0	19.7	17.2	9.9	7.4	2.4	2.4	2.4	0.0
85°	44.2	29.5	22.1	19.7	17.2	9.9	7.4	2.4	0.0	2.4	2.4
87.5°	24.6	22.1	22.1	19.7	17.2	12.3	7.4	2.4	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)