

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: P459043

Luminaire Tested: **GALN-SA5C-735-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27131 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

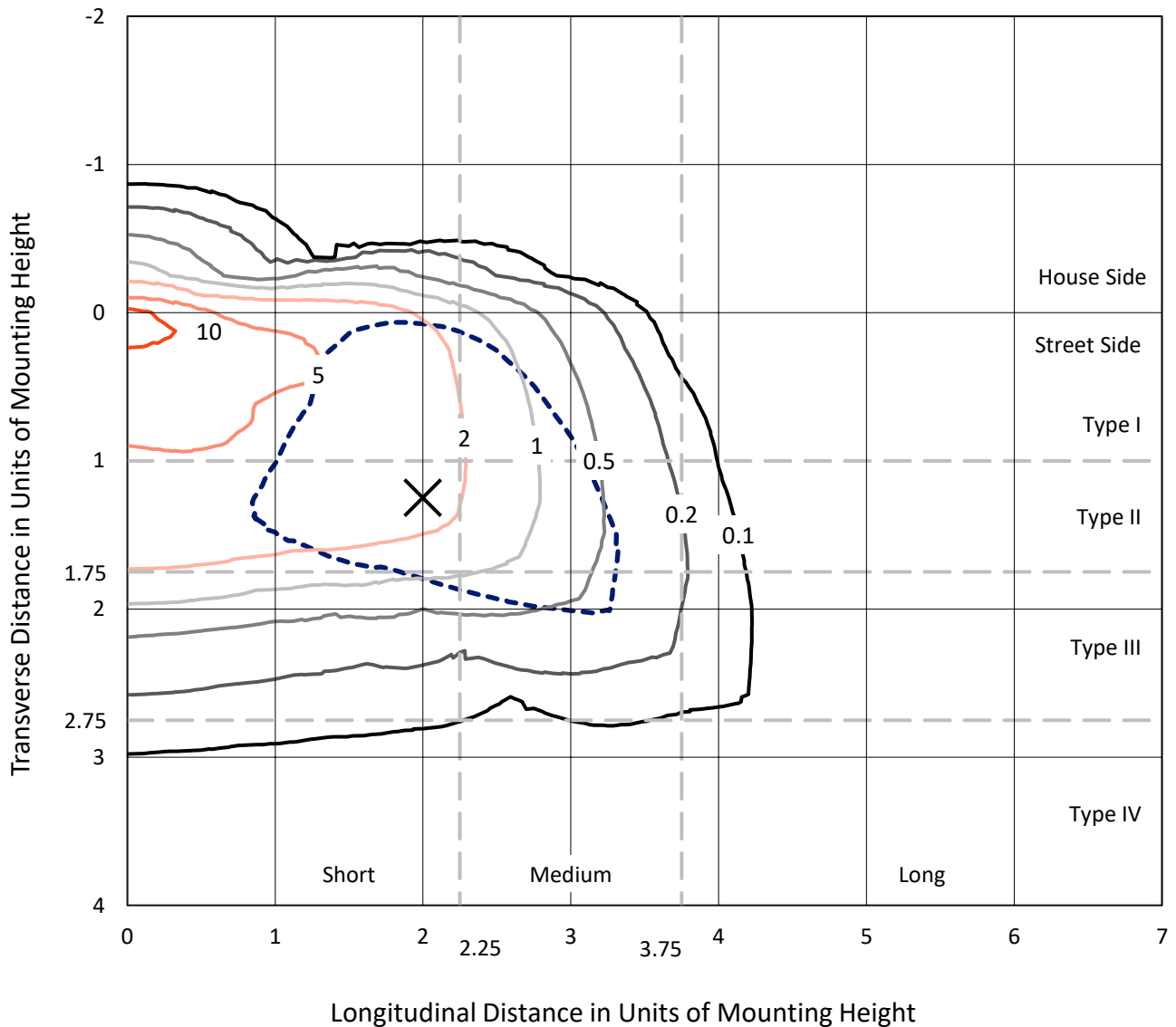
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

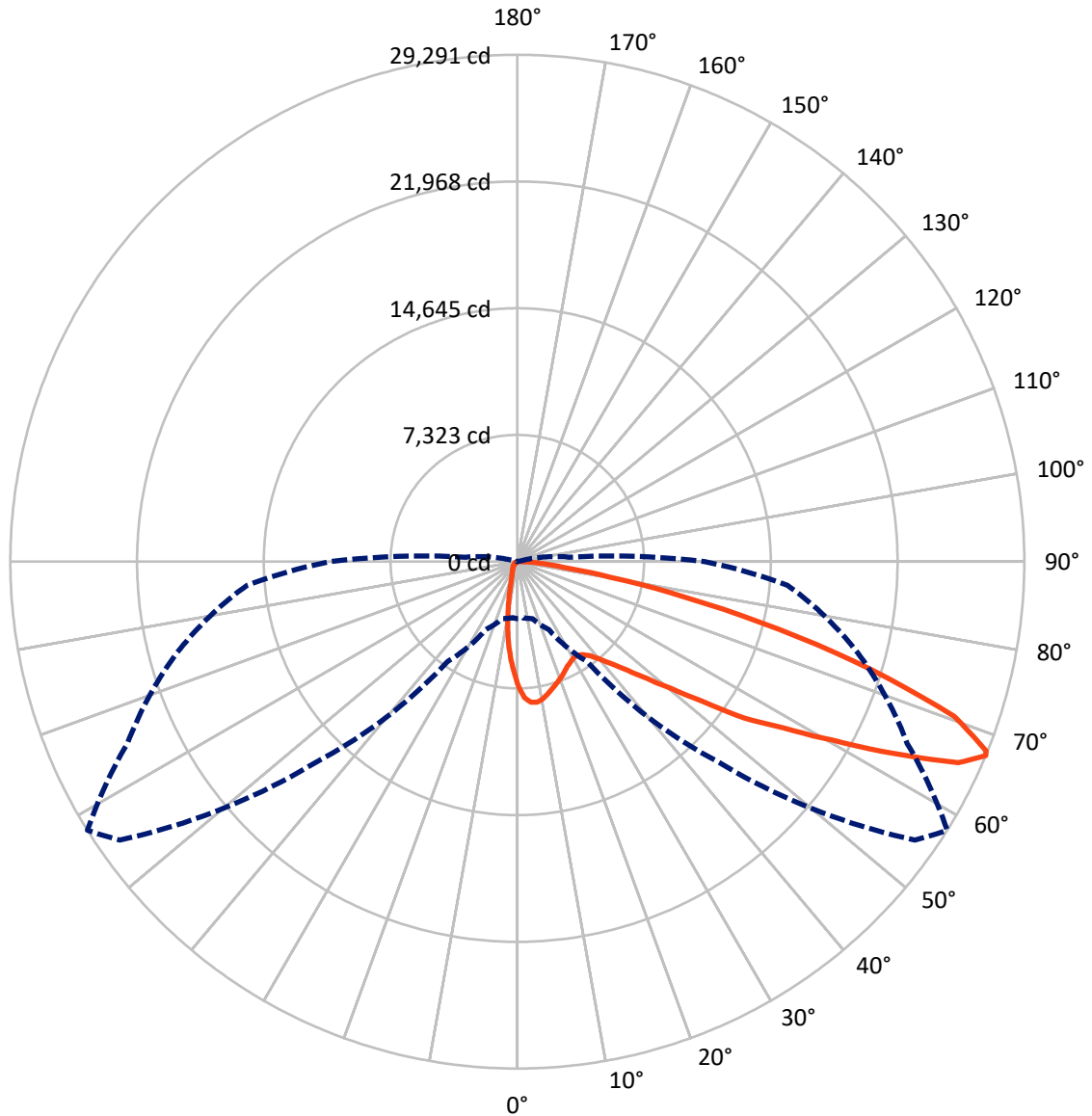
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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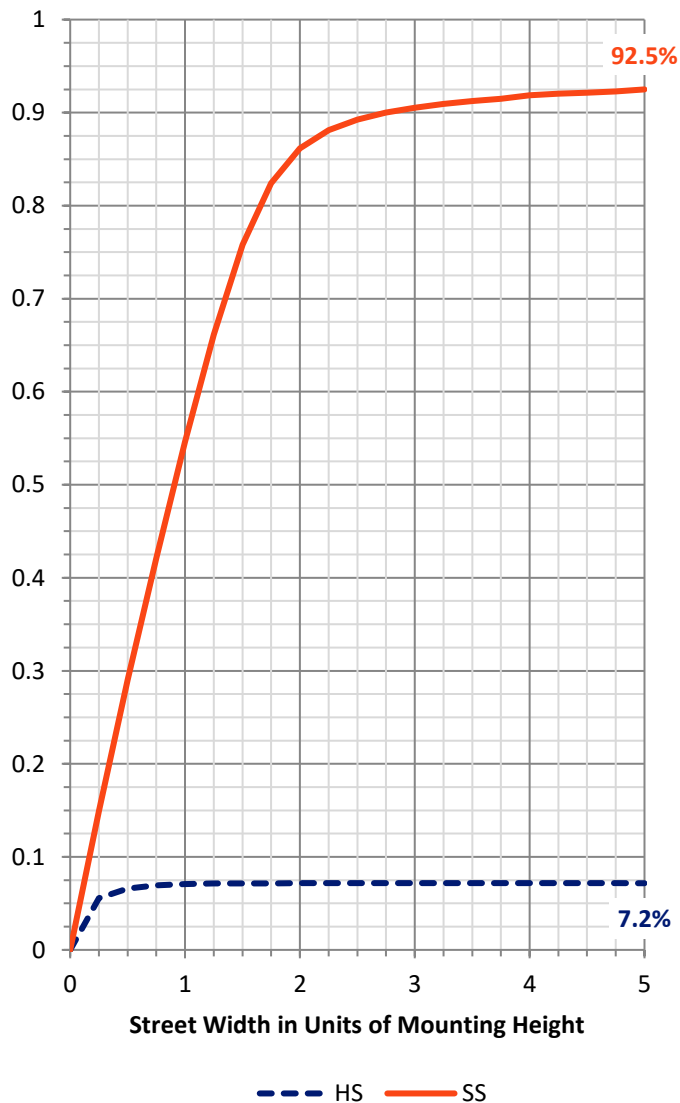
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1957.9	0.0	1957.9
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	25173.1	0.0	25173.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	27131.0	0.0	27131.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	583.6	2.2
10°-20°	1260.5	4.6
20°-30°	1708.1	6.3
30°-40°	2369.0	8.7
40°-50°	3778.2	13.9
50°-60°	6531.0	24.1
60°-70°	7460.5	27.5
70°-80°	3110.3	11.5
80°-90°	329.8	1.2
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°	27131.0	100.0
0°-180°	27131.0	100.0

Coefficient of Utilization



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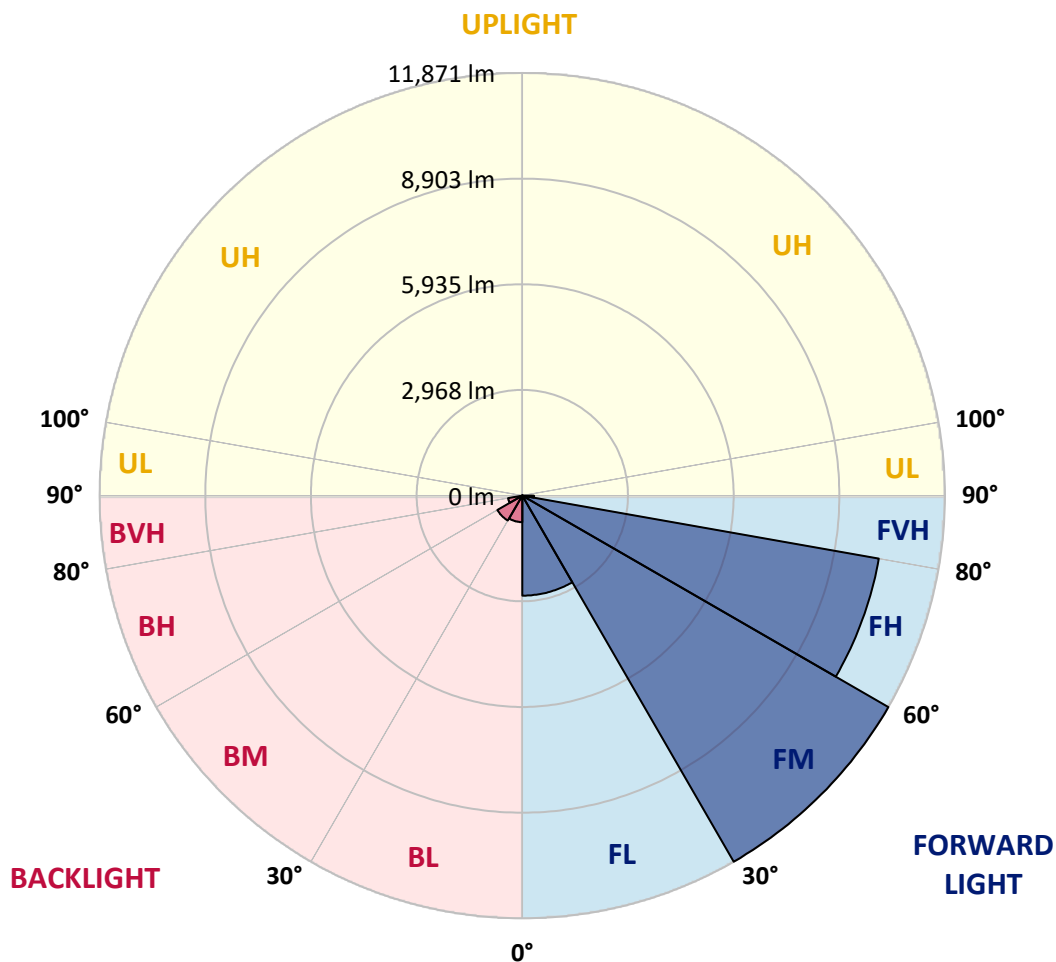
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2808.7	10.4			
FM (30°-60°)	11870.9	43.8			
FH (60°-80°)	10166.0	37.5			G4/12000
FVH (80°-90°)	327.4	1.2			G3/500
BL (0°-30°)	743.5	2.7	B2/1000		
BM (30°-60°)	807.3	3.0	B1/1000		
BH (60°-80°)	404.8	1.5	B1/500		G1/500
BVH (80°-90°)	2.4	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7192.2	7192.2	7192.2	7192.2	7192.2	7192.2	7192.2	7192.2	7192.2	7192.2	7192.2
2.5°	8347.1	8359.8	8312.6	8274.5	8176.6	8071.5	7931.9	7857.6	7730.6	7511.3	7268.3
5°	8542.9	8559.2	8551.9	8542.9	8504.8	8403.3	8225.6	8160.3	7973.6	7616.4	7177.7
7.5°	8107.7	8167.6	8174.8	8245.5	8312.6	8321.7	8254.6	8205.6	8033.4	7614.6	7016.3
10°	7531.2	7571.1	7629.1	7710.7	7872.1	8006.2	8071.5	8064.2	7964.5	7558.4	6827.8
12.5°	6949.2	6971.0	7059.8	7199.4	7397.0	7625.5	7799.5	7834.0	7835.8	7491.3	6670.0
15°	6448.8	6439.8	6508.7	6670.0	6947.4	7233.9	7545.7	7600.1	7687.1	7426.1	6523.2
17.5°	6021.0	6068.1	6079.0	6256.7	6512.3	6884.0	7281.0	7377.1	7551.2	7369.9	6401.7
20°	5756.3	5781.7	5805.2	5904.9	6135.2	6526.8	7032.6	7165.0	7424.2	7319.1	6265.7
22.5°	5678.3	5694.6	5674.7	5705.5	5868.7	6216.8	6762.5	6938.4	7302.8	7272.0	6155.1
25°	5738.2	5754.5	5707.3	5671.1	5727.3	5964.8	6501.4	6715.4	7204.9	7262.9	6071.7
27.5°	5883.2	5914.0	5848.7	5783.5	5750.8	5828.8	6296.6	6544.9	7137.8	7306.4	6033.7
30°	6109.8	6127.9	6079.0	5999.2	5924.9	5846.9	6189.6	6427.1	7119.7	7407.9	6030.0
32.5°	6356.4	6394.5	6367.3	6314.7	6218.6	6033.7	6220.4	6430.7	7163.2	7554.8	6075.4
35°	6661.0	6704.5	6729.9	6719.0	6595.7	6365.5	6416.2	6593.9	7279.2	7824.9	6198.7
37.5°	6960.1	6998.2	7141.4	7190.4	7081.6	6864.0	6796.9	6914.8	7534.8	8178.5	6421.7
40°	7302.8	7353.5	7554.8	7741.5	7688.9	7460.5	7337.2	7435.1	7926.4	8711.5	6844.1
42.5°	7630.9	7721.6	8028.0	8357.9	8406.9	8151.3	8069.7	8102.3	8506.6	9478.4	7433.3
45°	8096.9	8182.1	8577.3	9025.1	9255.4	9055.9	8972.5	8967.1	9302.5	10557.1	8388.8
47.5°	8769.5	8845.6	9311.6	9754.0	10163.7	10190.9	10033.2	10087.5	10303.3	11819.0	9560.0
50°	9594.4	9773.9	10080.3	10540.8	11088.3	11530.7	11579.6	11507.1	11692.0	13280.2	10966.8
52.5°	10792.8	10861.7	11142.7	11521.6	12163.4	12914.0	13496.0	13396.3	13338.3	14672.6	12388.2
55°	11686.6	11779.1	12216.0	12736.3	13677.3	14667.2	15929.0	15963.5	15231.0	16010.6	13778.8
57.5°	11416.5	11557.9	12219.6	13265.7	15334.4	17143.7	18082.9	18106.5	16982.4	17310.5	15348.9
60°	10029.5	10096.6	11044.8	12440.8	15475.8	19827.0	21137.8	20947.4	18764.6	18764.6	16735.8
62.5°	7112.4	7217.6	7986.3	10040.4	13976.4	20758.9	24796.4	24403.0	21219.4	20155.1	17562.6
65°	4545.2	4443.7	4953.1	6338.3	10412.1	19382.8	27981.9	28005.4	23529.1	20711.7	17111.1
67°	3292.4	3252.5	3399.4	4333.1	7059.8	16293.4	28049.0	29290.9	24856.3	20360.0	15668.0
67.5°	3011.4	3042.2	3149.2	3908.8	6414.4	14826.7	27744.4	29214.7	25155.4	20147.9	15145.8
70°	2282.6	2230.0	2346.0	2764.8	3845.4	9353.3	23866.4	26794.4	24783.7	18043.0	12101.8
72.5°	1678.8	1673.4	1834.8	2260.8	2960.6	4982.1	17916.1	21484.1	20247.6	13738.9	7620.0
75°	1133.1	1183.9	1441.3	1889.1	2683.2	3230.8	12214.2	15586.4	14056.2	7801.3	3114.7
77.5°	645.4	649.1	928.3	1517.5	2409.5	2599.8	7237.5	9929.8	7440.6	2594.4	924.6
80°	279.2	306.4	460.5	1102.3	1997.9	2302.5	4150.0	5457.1	3009.6	549.3	299.1
82.5°	103.3	121.5	203.1	678.1	1457.7	1896.4	2507.4	2605.3	1020.7	194.0	186.7
85°	0.0	3.6	74.3	317.3	759.6	846.7	1675.2	1544.7	451.4	92.5	121.5
87.5°	0.0	0.0	0.0	32.6	99.7	315.5	520.3	580.2	108.8	32.6	29.0
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°	7192.2	7192.2	7192.2	7192.2	7192.2	7192.2	7192.2	7192.2	7192.2	7192.2	7192.2
2.5°	7137.8	7019.9	6724.4	6428.9	6209.5	6026.4	5750.8	5600.4	5520.6	5402.7	5410.0
5°	6958.3	6719.0	6198.7	5660.2	5225.1	4800.8	4293.2	4088.3	3916.1	3818.2	3752.9
7.5°	6691.8	6338.3	5567.7	4849.8	4180.8	3439.3	2882.7	2511.0	2260.8	2168.4	2079.5
10°	6399.9	5930.3	4927.7	3932.4	3004.1	2239.1	1767.7	1426.8	1305.4	1193.0	1203.8
12.5°	6129.8	5558.7	4340.3	3103.9	2104.9	1423.2	1109.6	970.0	930.1	917.4	917.4
15°	5908.6	5203.3	3709.4	2333.3	1443.1	1022.5	888.4	850.3	835.8	832.2	832.2
17.5°	5672.9	4866.1	3140.1	1724.2	1049.7	855.7	810.4	785.0	779.6	776.0	776.0
20°	5462.6	4527.1	2599.8	1283.6	848.5	770.5	741.5	725.2	719.8	716.1	717.9
22.5°	5263.1	4226.1	2092.2	970.0	747.0	701.6	672.6	656.3	645.4	636.4	638.2
25°	5085.5	3936.0	1682.5	794.1	672.6	632.7	603.7	580.2	556.6	545.7	543.9
27.5°	4960.4	3682.2	1310.8	679.9	605.5	562.0	525.8	496.8	465.9	449.6	446.0
30°	4857.0	3424.8	1037.0	600.1	538.5	496.8	451.4	409.7	377.1	360.8	353.5
32.5°	4790.0	3180.0	817.7	534.8	482.3	431.5	380.7	339.0	302.8	286.5	282.8
35°	4779.1	2975.1	669.0	480.4	431.5	377.1	324.5	279.2	248.4	232.1	228.4
37.5°	4857.0	2817.4	560.2	436.9	389.8	330.0	272.0	230.3	203.1	190.4	188.6
40°	5065.5	2717.7	485.9	400.7	351.7	286.5	232.1	195.8	168.6	155.9	155.9
42.5°	5462.6	2721.3	436.9	366.2	313.6	244.8	197.6	163.2	139.6	128.7	125.1
45°	6082.6	2844.6	395.2	331.8	277.4	212.1	168.6	134.2	110.6	101.5	101.5
47.5°	6913.0	3089.4	359.0	297.3	244.8	181.3	143.2	108.8	88.8	79.8	79.8
50°	7999.0	3482.8	328.2	268.3	217.6	155.9	116.0	88.8	68.9	61.6	59.8
52.5°	9133.9	3968.7	291.9	242.9	186.7	132.3	94.3	68.9	52.6	47.1	45.3
55°	10386.7	4443.7	257.4	217.6	152.3	110.6	74.3	54.4	38.1	32.6	32.6
57.5°	11650.4	4909.6	215.7	181.3	119.7	81.6	58.0	39.9	25.4	19.9	19.9
60°	12720.0	5060.1	183.1	146.9	90.7	58.0	41.7	25.4	14.5	9.1	9.1
62.5°	12866.9	4552.4	154.1	112.4	65.3	39.9	21.8	14.5	5.4	3.6	3.6
65°	12069.2	3698.5	128.7	85.2	43.5	19.9	9.1	5.4	1.8	0.0	0.0
67°	10814.6	2998.7	105.2	63.5	30.8	12.7	5.4	1.8	0.0	0.0	0.0
67.5°	10493.7	2859.1	101.5	59.8	27.2	10.9	3.6	1.8	0.0	0.0	0.0
70°	8234.7	2141.2	72.5	36.3	16.3	7.3	0.0	0.0	0.0	0.0	0.0
72.5°	5118.1	1211.1	52.6	21.8	10.9	3.6	0.0	0.0	0.0	0.0	0.0
75°	1934.5	424.2	36.3	14.5	7.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	601.9	161.4	21.8	10.9	3.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	203.1	61.6	14.5	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	125.1	25.4	9.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	78.0	10.9	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.5	3.6	1.8	0.0	0.0	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)