

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: P650960

Luminaire Tested: **GALN-SA6C-840-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650960
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-SA6C-840-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 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: 29002.7 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

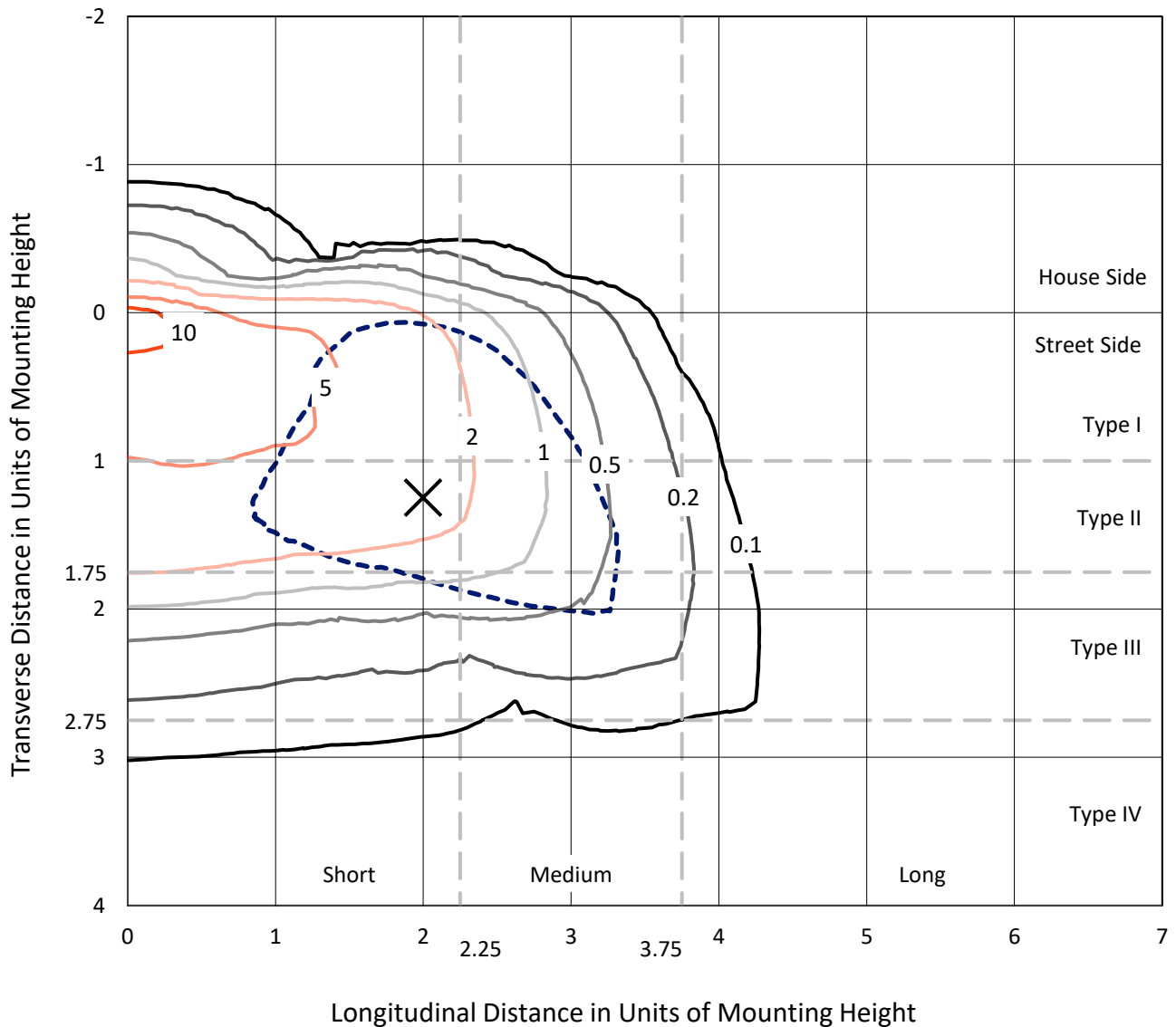
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650960
 CATALOG NUMBER: GALN-SA6C-840-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

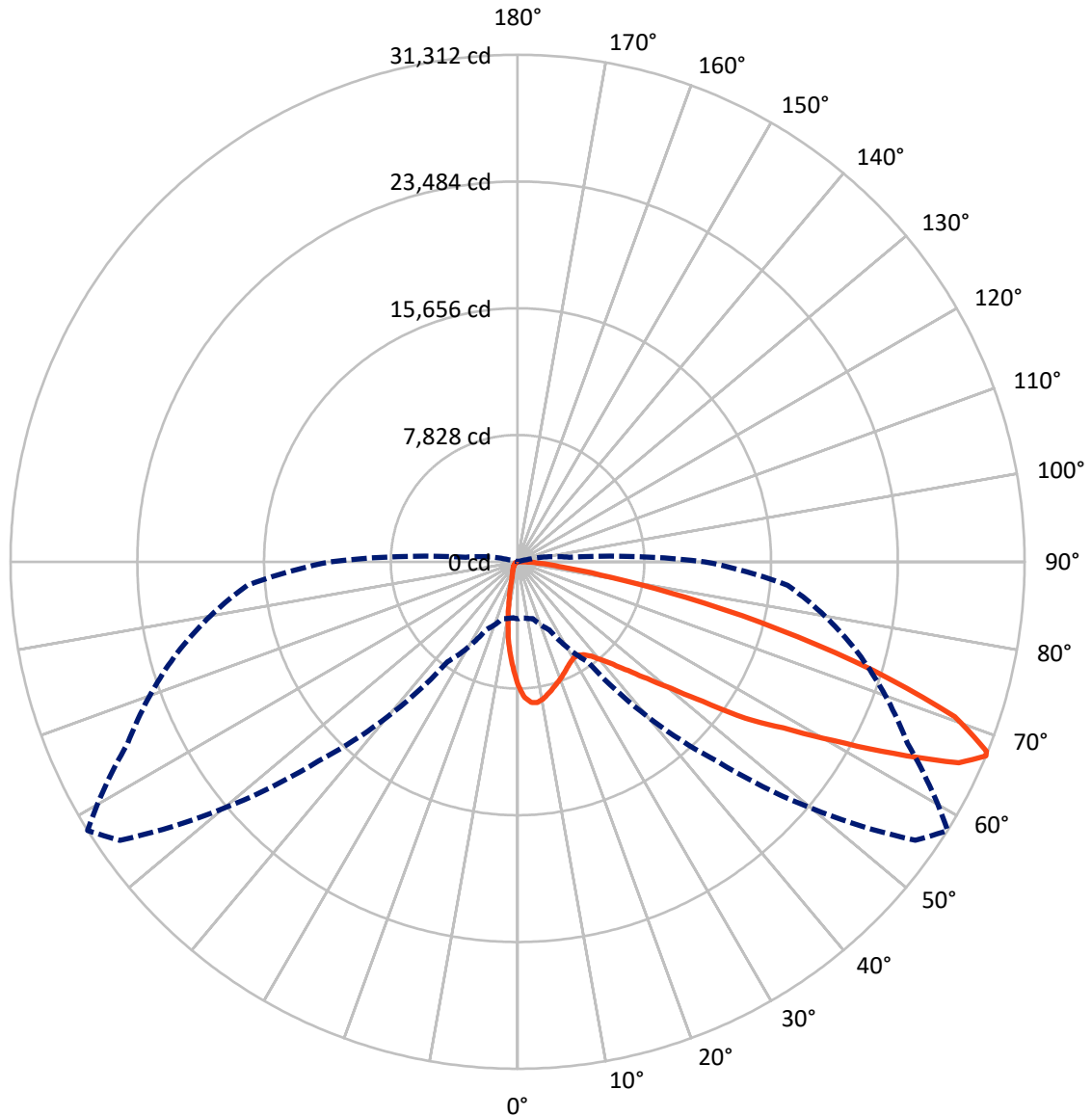
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type III - Short - N/A

REPORT NUMBER: P650960
CATALOG NUMBER: GALN-SA6C-840-U-SL3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P650960
 CATALOG NUMBER: GALN-SA6C-840-U-SL3-HSS

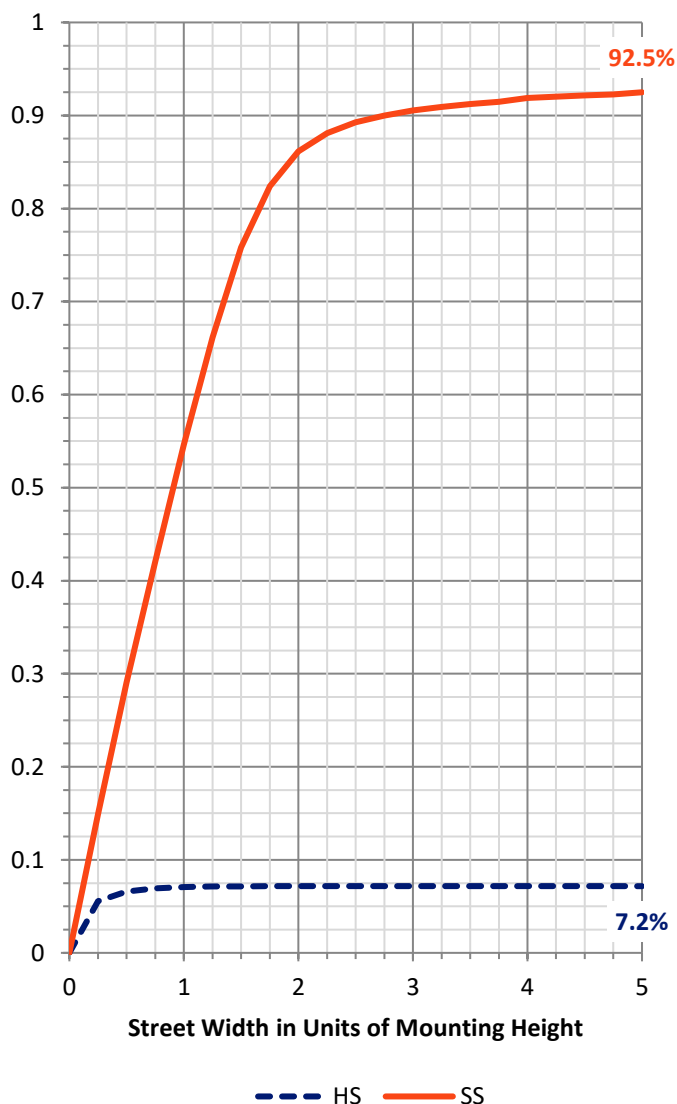
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2093.0	0.0	2093.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	26909.7	0.0	26909.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	29002.7	0.0	29002.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	623.9	2.2
10°-20°	1347.5	4.6
20°-30°	1825.9	6.3
30°-40°	2532.4	8.7
40°-50°	4038.9	13.9
50°-60°	6981.6	24.1
60°-70°	7975.2	27.5
70°-80°	3324.9	11.5
80°-90°	352.5	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°	29002.7	100.0
0°-180°	29002.7	100.0

Coefficient of Utilization

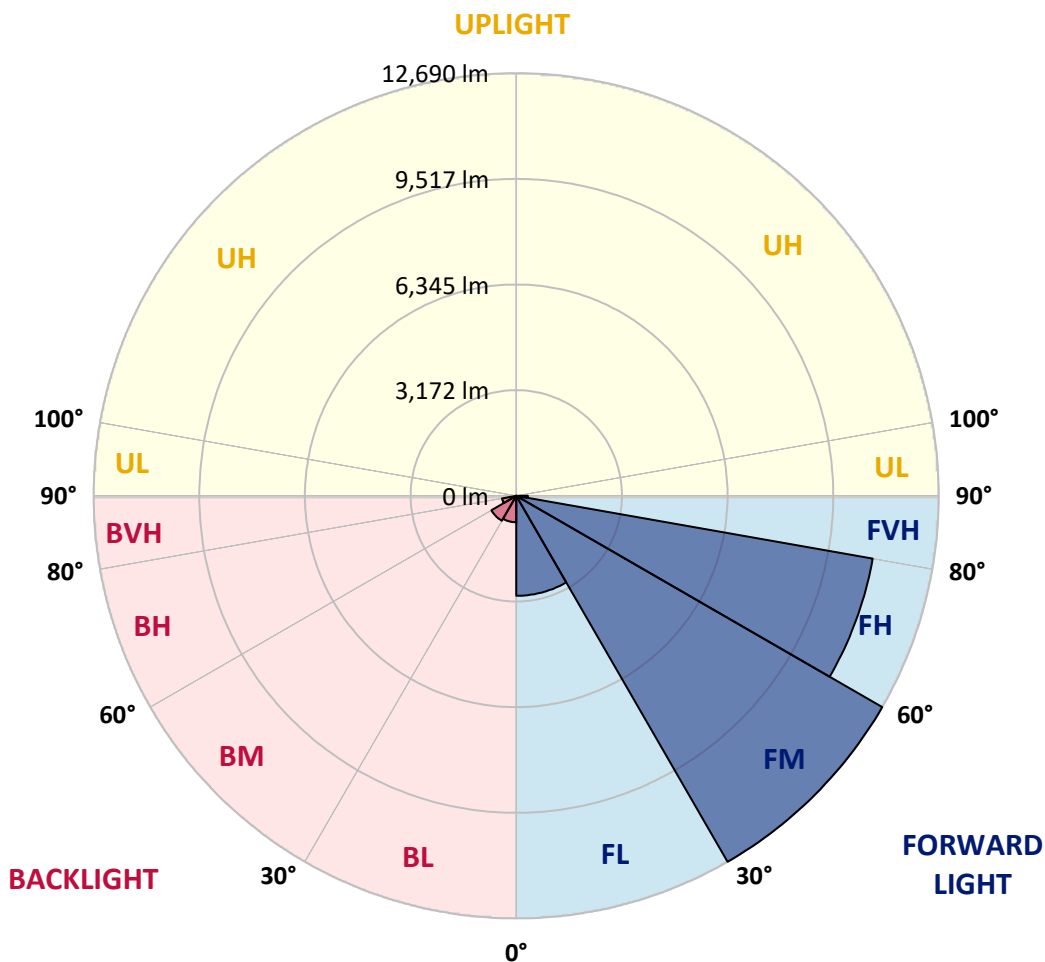


REPORT NUMBER: P650960
 CATALOG NUMBER: GALN-SA6C-840-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3002.5	10.4			
FM (30°-60°)	12689.9	43.8			
FH (60°-80°)	10867.4	37.5			G4/12000
FVH (80°-90°)	350.0	1.2			G3/500
BL (0°-30°)	794.8	2.7	B2/1000		
BM (30°-60°)	863.0	3.0	B1/1000		
BH (60°-80°)	432.7	1.5	B1/500		G1/500
BVH (80°-90°)	2.6	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 III Short





REPORT NUMBER: P650960

CATALOG NUMBER: GALN-SA6C-840-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7688.3	7688.3	7688.3	7688.3	7688.3	7688.3	7688.3	7688.3	7688.3	7688.3	7688.3
2.5°	8922.9	8936.5	8886.1	8845.4	8740.8	8628.3	8479.1	8399.7	8264.0	8029.4	7769.7
5°	9132.3	9149.7	9141.9	9132.3	9091.5	8983.0	8793.1	8723.3	8523.7	8141.9	7672.9
7.5°	8667.1	8731.0	8738.8	8814.4	8886.1	8895.8	8824.1	8771.7	8587.6	8140.0	7500.4
10°	8050.8	8093.4	8155.4	8242.6	8415.1	8558.5	8628.3	8620.6	8513.9	8079.8	7298.8
12.5°	7428.6	7451.9	7546.9	7696.1	7907.3	8151.6	8337.6	8374.4	8376.4	8008.2	7130.2
15°	6893.8	6884.1	6957.7	7130.2	7426.7	7732.9	8066.3	8124.4	8217.4	7938.4	6973.2
17.5°	6436.3	6486.7	6498.4	6688.3	6961.5	7358.9	7783.3	7886.1	8072.1	7878.3	6843.4
20°	6153.4	6180.5	6205.7	6312.3	6558.5	6977.1	7517.8	7659.3	7936.4	7824.0	6698.0
22.5°	6070.1	6087.5	6066.2	6099.1	6273.5	6645.7	7229.1	7417.0	7806.6	7773.6	6579.8
25°	6134.0	6151.5	6101.0	6062.3	6122.4	6376.3	6949.9	7178.6	7702.0	7763.9	6490.6
27.5°	6289.1	6322.0	6252.2	6182.4	6147.6	6230.9	6730.9	6996.4	7630.2	7810.5	6450.0
30°	6531.3	6550.7	6498.4	6413.1	6333.7	6250.3	6616.6	6870.5	7610.8	7919.0	6446.0
32.5°	6794.9	6835.6	6806.5	6750.3	6647.6	6450.0	6649.5	6874.3	7657.4	8076.0	6494.5
35°	7120.5	7167.0	7194.2	7182.5	7050.7	6804.6	6858.9	7048.8	7781.4	8364.8	6626.3
37.5°	7440.2	7480.9	7634.1	7686.4	7570.1	7337.6	7265.8	7391.8	8054.7	8742.7	6864.7
40°	7806.6	7860.8	8076.0	8275.6	8219.4	7975.2	7843.4	7948.0	8473.2	9312.5	7316.3
42.5°	8157.4	8254.2	8581.8	8934.5	8986.8	8713.6	8626.4	8661.3	9093.5	10132.3	7946.1
45°	8655.5	8746.6	9169.1	9647.8	9893.9	9680.7	9591.5	9585.7	9944.3	11285.5	8967.5
47.5°	9374.5	9455.9	9954.0	10426.9	10864.9	10894.0	10725.4	10783.5	11014.1	12634.3	10219.5
50°	10256.3	10448.2	10775.7	11268.0	11853.3	12326.2	12378.5	12301.0	12498.7	14196.4	11723.5
52.5°	11537.3	11611.0	11911.4	12316.5	13002.5	13804.9	14427.0	14320.5	14258.5	15684.9	13242.9
55°	12492.9	12591.7	13058.8	13615.0	14620.9	15679.0	17028.0	17064.8	16281.8	17115.2	14729.4
57.5°	12204.1	12355.2	13062.7	14180.9	16392.3	18326.5	19330.4	19355.6	18154.0	18504.8	16407.7
60°	10721.5	10793.1	11806.8	13299.1	16543.4	21194.8	22596.1	22392.6	20059.1	20059.1	17890.4
62.5°	7603.1	7715.5	8537.2	10733.1	14940.6	22191.0	26507.1	26086.6	22683.3	21545.6	18774.1
65°	4858.8	4750.2	5294.9	6775.5	11130.4	20720.0	29912.3	29937.5	25152.4	22140.6	18291.6
67°	3519.6	3476.9	3633.9	4632.0	7546.9	17417.5	29984.0	31311.6	26571.1	21764.7	16748.9
67.5°	3219.2	3252.1	3366.4	4178.5	6856.9	15849.6	29658.4	31230.2	26890.8	21537.8	16190.7
70°	2440.1	2383.8	2507.9	2955.6	4110.6	9998.6	25512.8	28642.9	26493.5	19287.7	12936.7
72.5°	1794.7	1788.8	1961.3	2416.8	3164.9	5325.8	19152.1	22966.2	21644.5	14686.7	8145.8
75°	1211.3	1265.5	1540.8	2019.5	2868.3	3453.7	13056.9	16661.6	15025.9	8339.5	3329.6
77.5°	690.0	693.8	992.3	1622.2	2575.7	2779.2	7736.8	10614.8	7953.8	2773.4	988.4
80°	298.5	327.6	492.2	1178.3	2135.8	2461.4	4436.3	5833.6	3217.2	587.3	319.7
82.5°	110.5	129.9	217.1	724.9	1558.2	2027.2	2680.4	2785.1	1091.1	207.4	199.7
85°	0.0	3.9	79.5	339.2	812.1	905.1	1790.8	1651.2	482.6	98.8	129.9
87.5°	0.0	0.0	0.0	34.9	106.6	337.2	556.2	620.2	116.3	34.9	31.0
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: P650960

CATALOG NUMBER: GALN-SA6C-840-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7688.3	7688.3	7688.3	7688.3	7688.3	7688.3	7688.3	7688.3	7688.3	7688.3	7688.3
2.5°	7630.2	7504.2	7188.4	6872.4	6637.9	6442.1	6147.6	5986.7	5901.5	5775.5	5783.2
5°	7438.3	7182.5	6626.3	6050.7	5585.5	5132.0	4589.3	4370.3	4186.2	4081.6	4011.8
7.5°	7153.5	6775.5	5951.8	5184.3	4469.2	3676.5	3081.5	2684.2	2416.8	2318.0	2223.0
10°	6841.5	6339.5	5267.7	4203.7	3211.4	2393.5	1889.6	1525.2	1395.4	1275.3	1286.9
12.5°	6552.7	5942.2	4639.8	3318.0	2250.1	1521.4	1186.1	1036.9	994.2	980.7	980.7
15°	6316.2	5562.3	3965.3	2494.3	1542.7	1093.0	949.7	909.0	893.5	889.6	889.6
17.5°	6064.3	5201.8	3356.8	1843.1	1122.1	914.8	866.3	839.1	833.3	829.5	829.5
20°	5839.4	4839.4	2779.2	1372.2	907.0	823.7	792.6	775.2	769.4	765.6	767.5
22.5°	5626.2	4517.7	2236.6	1036.9	798.5	750.0	719.1	701.6	690.0	680.3	682.2
25°	5436.3	4207.6	1798.6	848.9	719.1	676.4	645.4	620.2	595.0	583.4	581.4
27.5°	5302.6	3936.2	1401.2	726.8	647.3	600.8	562.0	531.0	498.1	480.6	476.8
30°	5192.1	3661.0	1108.6	641.5	575.6	531.0	482.6	438.0	403.1	385.7	377.9
32.5°	5120.4	3399.4	874.1	571.7	515.5	461.3	407.0	362.4	323.7	306.2	302.3
35°	5108.7	3180.4	715.2	513.6	461.3	403.1	346.9	298.5	265.5	248.1	244.2
37.5°	5192.1	3011.8	598.9	467.1	416.7	352.7	290.7	246.2	217.1	203.5	201.6
40°	5415.0	2905.2	519.4	428.3	376.0	306.2	248.1	209.3	180.2	166.7	166.7
42.5°	5839.4	2909.0	467.1	391.5	335.3	261.6	211.3	174.4	149.2	137.6	133.7
45°	6502.3	3040.8	422.5	354.6	296.5	226.7	180.2	143.4	118.2	108.6	108.6
47.5°	7389.9	3302.5	383.7	317.8	261.6	193.8	153.1	116.3	94.9	85.3	85.3
50°	8550.8	3723.0	350.8	286.9	232.5	166.7	124.0	94.9	73.7	65.9	63.9
52.5°	9764.0	4242.4	312.0	259.7	199.7	141.5	100.8	73.7	56.2	50.4	48.4
55°	11103.2	4750.2	275.2	232.5	162.8	118.2	79.5	58.1	40.7	34.9	34.9
57.5°	12454.1	5248.3	230.6	193.8	127.9	87.2	62.0	42.6	27.2	21.3	21.3
60°	13597.5	5409.1	195.8	157.0	96.9	62.0	44.6	27.2	15.5	9.7	9.7
62.5°	13754.6	4866.5	164.8	120.2	69.8	42.6	23.3	15.5	5.8	3.9	3.9
65°	12901.8	3953.7	137.6	91.1	46.5	21.3	9.7	5.8	1.9	0.0	0.0
67°	11560.6	3205.6	112.4	67.9	33.0	13.5	5.8	1.9	0.0	0.0	0.0
67.5°	11217.6	3056.4	108.6	63.9	29.1	11.6	3.9	1.9	0.0	0.0	0.0
70°	8802.7	2288.9	77.5	38.8	17.4	7.7	0.0	0.0	0.0	0.0	0.0
72.5°	5471.2	1294.6	56.2	23.3	11.6	3.9	0.0	0.0	0.0	0.0	0.0
75°	2067.9	453.6	38.8	15.5	7.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	643.4	172.5	23.3	11.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	217.1	65.9	15.5	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	133.7	27.2	9.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	83.3	11.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.5	3.9	1.9	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)