

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: P459072

Luminaire Tested: **GALN-SA5D-735-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459072
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-SA5D-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1200mA 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: 29853 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

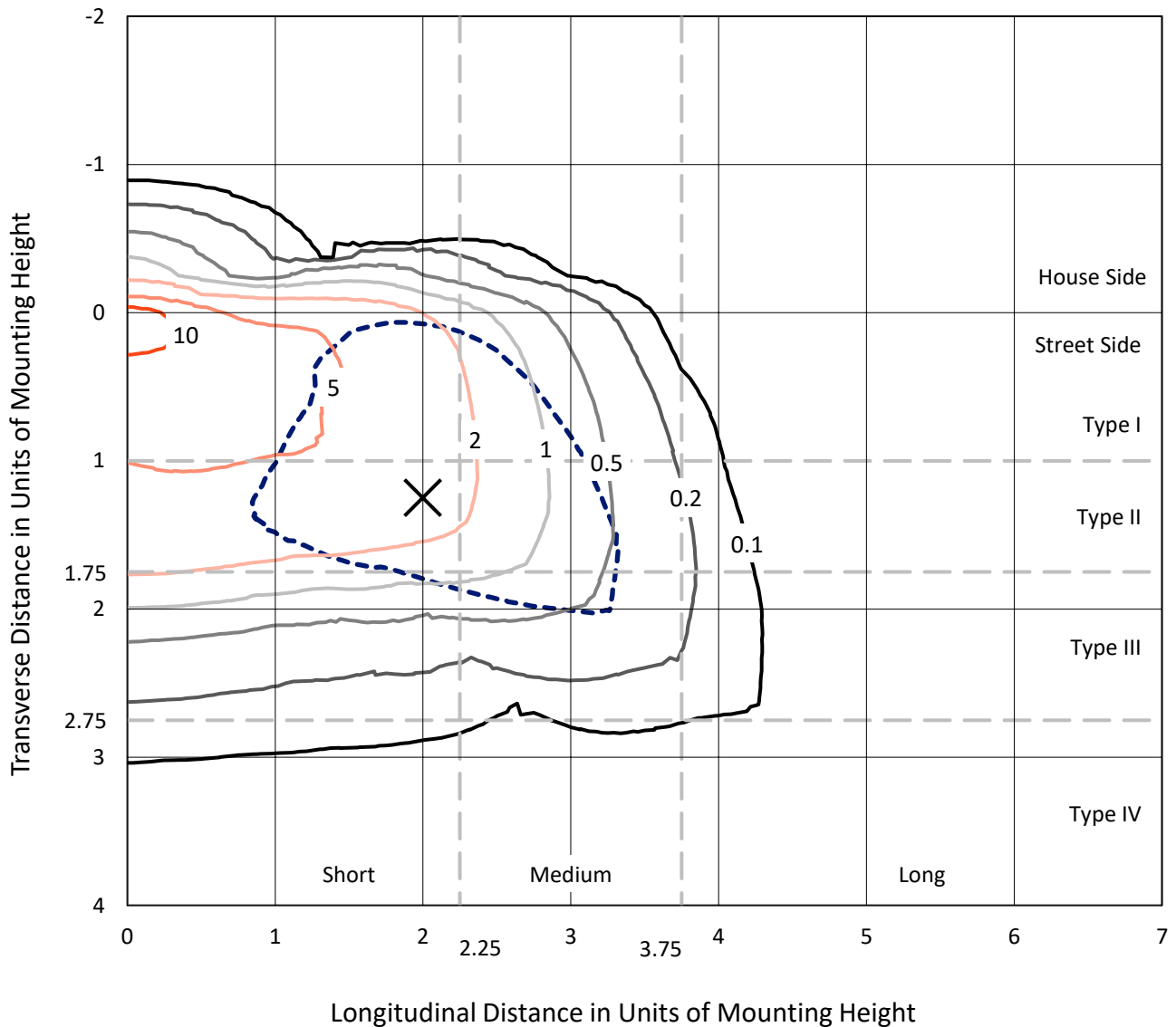
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

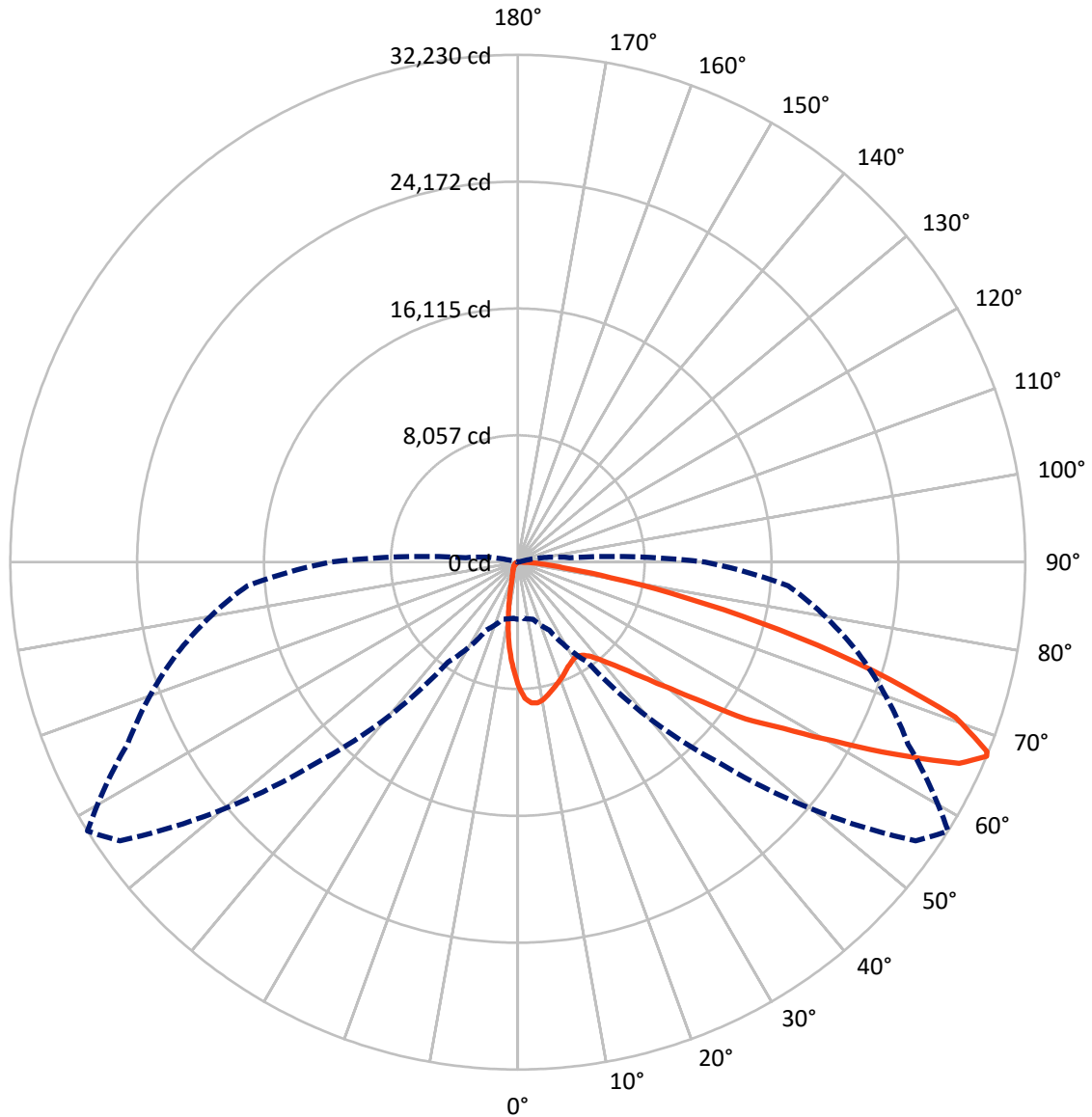
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 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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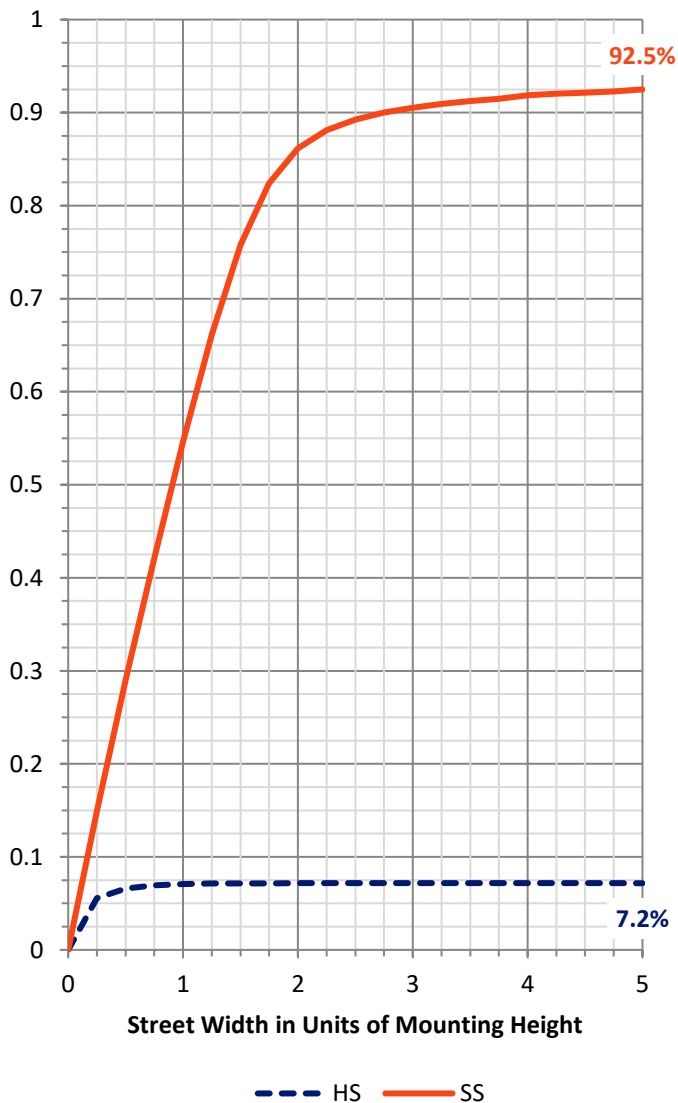
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2154.4	0.0	2154.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	27698.6	0.0	27698.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	29853.0	0.0	29853.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	642.2	2.2
10°-20°	1387.0	4.6
20°-30°	1879.4	6.3
30°-40°	2606.7	8.7
40°-50°	4157.3	13.9
50°-60°	7186.3	24.1
60°-70°	8209.0	27.5
70°-80°	3422.4	11.5
80°-90°	362.9	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°	29853.0	100.0
0°-180°	29853.0	100.0

Coefficient of Utilization



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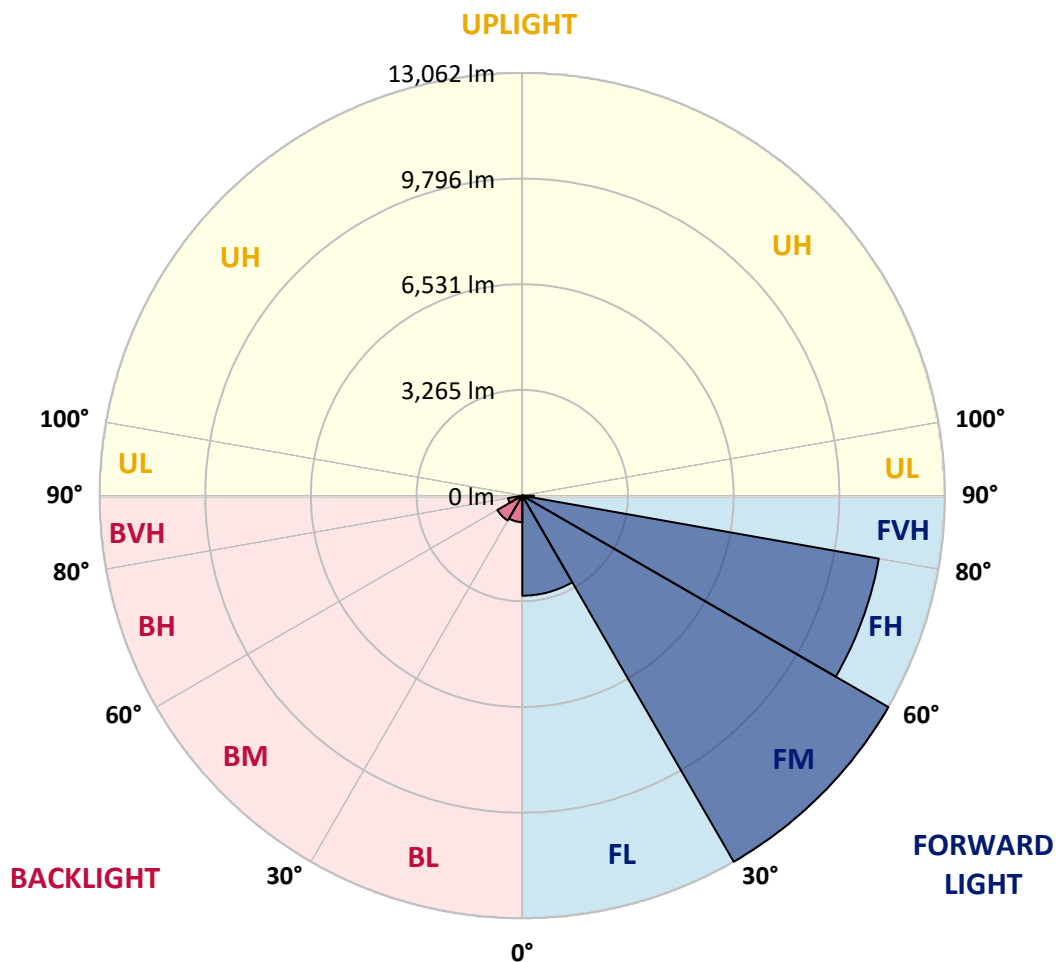
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3090.5	10.4			
FM (30°-60°)	13061.9	43.8			
FH (60°-80°)	11186.0	37.5			G4/12000
FVH (80°-90°)	360.2	1.2			G3/500
BL (0°-30°)	818.1	2.7	B2/1000		
BM (30°-60°)	888.3	3.0	B1/1000		
BH (60°-80°)	445.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7913.8	7913.8	7913.8	7913.8	7913.8	7913.8	7913.8	7913.8	7913.8	7913.8	7913.8
2.5°	9184.5	9198.5	9146.6	9104.7	8997.0	8881.3	8727.7	8645.9	8506.2	8264.9	7997.5
5°	9400.0	9417.9	9409.9	9400.0	9358.1	9246.3	9050.8	8979.0	8773.6	8380.6	7897.8
7.5°	8921.2	8987.0	8995.0	9072.8	9146.6	9156.6	9082.8	9028.9	8839.4	8378.6	7720.3
10°	8286.8	8330.7	8394.5	8484.3	8661.8	8809.5	8881.3	8873.3	8763.6	8316.7	7512.8
12.5°	7646.4	7670.4	7768.1	7921.7	8139.2	8390.5	8582.0	8619.9	8621.9	8242.9	7339.2
15°	7095.8	7085.9	7161.7	7339.2	7644.4	7959.6	8302.8	8362.6	8458.4	8171.1	7177.6
17.5°	6625.1	6676.9	6688.9	6884.4	7165.7	7574.6	8011.5	8117.2	8308.7	8109.3	7044.0
20°	6333.8	6361.7	6387.7	6497.4	6750.7	7181.6	7738.2	7883.8	8169.1	8053.4	6894.4
22.5°	6248.0	6266.0	6244.0	6277.9	6457.5	6840.5	7441.0	7634.5	8035.4	8001.5	6772.7
25°	6313.8	6331.8	6279.9	6240.0	6301.9	6563.2	7153.7	7389.1	7927.7	7991.6	6680.9
27.5°	6473.4	6507.4	6435.5	6363.7	6327.8	6413.6	6928.3	7201.6	7853.9	8039.4	6639.0
30°	6722.8	6742.8	6688.9	6601.1	6519.3	6433.5	6810.6	7071.9	7834.0	8151.1	6635.0
32.5°	6994.1	7036.0	7006.1	6948.2	6842.5	6639.0	6844.5	7075.9	7881.8	8312.7	6684.9
35°	7329.3	7377.1	7405.1	7393.1	7257.4	7004.1	7059.9	7255.4	8009.5	8610.0	6820.6
37.5°	7658.4	7700.3	7857.9	7911.8	7792.1	7552.7	7478.9	7608.5	8290.8	8999.0	7065.9
40°	8035.4	8091.3	8312.7	8518.2	8460.4	8209.0	8073.3	8181.1	8721.7	9585.5	7530.7
42.5°	8396.5	8496.3	8833.4	9196.5	9250.3	8969.1	8879.3	8915.2	9360.1	10429.3	8179.1
45°	8909.2	9003.0	9437.9	9930.6	10183.9	9964.5	9872.7	9866.8	10235.8	11616.3	9230.4
47.5°	9649.3	9733.1	10245.8	10732.5	11183.4	11213.3	11039.8	11099.6	11337.0	13004.7	10519.1
50°	10557.0	10754.5	11091.6	11598.3	12200.8	12687.5	12741.4	12661.6	12865.1	14612.6	12067.1
52.5°	11875.6	11951.4	12260.6	12677.6	13383.8	14209.7	14850.0	14740.3	14676.5	16144.7	13631.1
55°	12859.1	12960.8	13441.6	14014.2	15049.5	16138.7	17527.2	17565.1	16759.1	17616.9	15161.2
57.5°	12561.9	12717.5	13445.6	14596.7	16872.8	18863.7	19897.1	19923.0	18686.2	19047.3	16888.8
60°	11035.8	11109.6	12152.9	13689.0	17028.4	21816.2	23258.5	23049.0	20647.2	20647.2	18414.9
62.5°	7826.0	7941.7	8787.5	11047.7	15378.7	22841.6	27284.2	26851.3	23348.3	22177.3	19324.6
65°	5001.2	4889.5	5450.1	6974.2	11456.7	21327.4	30789.2	30815.2	25889.8	22789.7	18827.8
67°	3622.7	3578.8	3740.4	4767.8	7768.1	17928.1	30863.1	32229.6	27350.0	22402.7	17239.9
67.5°	3313.5	3347.4	3465.1	4301.0	7057.9	16314.3	30527.9	32145.8	27679.2	22169.3	16665.4
70°	2511.6	2453.7	2581.4	3042.2	4231.2	10291.7	26260.8	29482.6	27270.2	19853.2	13315.9
72.5°	1847.3	1841.3	2018.8	2487.6	3257.7	5482.0	19713.6	23639.5	22279.0	15117.3	8384.6
75°	1246.8	1302.7	1585.9	2078.7	2952.4	3554.9	13439.6	17150.1	15466.4	8584.0	3427.2
77.5°	710.2	714.2	1021.4	1669.7	2651.2	2860.7	7963.6	10926.1	8187.1	2854.7	1017.4
80°	307.2	337.1	506.7	1212.9	2198.4	2533.5	4566.3	6004.6	3311.5	604.5	329.2
82.5°	113.7	133.7	223.4	746.1	1603.9	2086.7	2758.9	2866.7	1123.1	213.5	205.5
85°	0.0	4.0	81.8	349.1	835.9	931.6	1843.3	1699.7	496.7	101.7	133.7
87.5°	0.0	0.0	0.0	35.9	109.7	347.1	572.5	638.4	119.7	35.9	31.9
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°	7913.8	7913.8	7913.8	7913.8	7913.8	7913.8	7913.8	7913.8	7913.8	7913.8	7913.8
2.5°	7853.9	7724.2	7399.1	7073.9	6832.5	6631.0	6327.8	6162.2	6074.5	5944.8	5952.8
5°	7656.4	7393.1	6820.6	6228.1	5749.3	5282.5	4723.9	4498.5	4309.0	4201.3	4129.4
7.5°	7363.2	6974.2	6126.3	5336.3	4600.2	3784.3	3171.9	2762.9	2487.6	2385.9	2288.1
10°	7042.0	6525.3	5422.1	4326.9	3305.5	2463.7	1945.0	1570.0	1436.3	1312.6	1324.6
12.5°	6744.7	6116.4	4775.8	3415.3	2316.1	1566.0	1220.9	1067.3	1023.4	1009.4	1009.4
15°	6501.4	5725.4	4081.6	2567.4	1587.9	1125.1	977.5	935.6	919.6	915.7	915.7
17.5°	6242.0	5354.3	3455.2	1897.1	1155.0	941.6	891.7	863.8	857.8	853.8	853.8
20°	6010.6	4981.3	2860.7	1412.4	933.6	847.8	815.9	798.0	792.0	788.0	790.0
22.5°	5791.2	4650.1	2302.1	1067.3	821.9	772.0	740.1	722.2	710.2	700.2	702.2
25°	5595.7	4330.9	1851.3	873.8	740.1	696.2	664.3	638.4	612.4	600.5	598.5
27.5°	5458.0	4051.6	1442.3	748.1	666.3	618.4	578.5	546.6	512.7	494.7	490.7
30°	5344.3	3768.4	1141.1	660.3	592.5	546.6	496.7	450.8	414.9	397.0	389.0
32.5°	5270.5	3499.0	899.7	588.5	530.6	474.8	418.9	373.0	333.1	315.2	311.2
35°	5258.5	3273.6	736.1	528.6	474.8	414.9	357.1	307.2	273.3	255.3	251.4
37.5°	5344.3	3100.1	616.4	480.8	428.9	363.1	299.2	253.4	223.4	209.5	207.5
40°	5573.7	2990.4	534.6	440.9	387.0	315.2	255.3	215.4	185.5	171.6	171.6
42.5°	6010.6	2994.3	480.8	403.0	345.1	269.3	217.4	179.5	153.6	141.6	137.6
45°	6692.9	3130.0	434.9	365.1	305.2	233.4	185.5	147.6	121.7	111.7	111.7
47.5°	7606.5	3399.3	395.0	327.2	269.3	199.5	157.6	119.7	97.7	87.8	87.8
50°	8801.5	3832.2	361.1	295.2	239.4	171.6	127.7	97.7	75.8	67.8	65.8
52.5°	10050.3	4366.8	321.2	267.3	205.5	145.6	103.7	75.8	57.9	51.9	49.9
55°	11428.8	4889.5	283.3	239.4	167.6	121.7	81.8	59.8	41.9	35.9	35.9
57.5°	12819.2	5402.2	237.4	199.5	131.7	89.8	63.8	43.9	27.9	21.9	21.9
60°	13996.2	5567.8	201.5	161.6	99.7	63.8	45.9	27.9	16.0	10.0	10.0
62.5°	14157.8	5009.2	169.6	123.7	71.8	43.9	23.9	16.0	6.0	4.0	4.0
65°	13280.0	4069.6	141.6	93.8	47.9	21.9	10.0	6.0	2.0	0.0	0.0
67°	11899.6	3299.6	115.7	69.8	33.9	14.0	6.0	2.0	0.0	0.0	0.0
67.5°	11546.5	3146.0	111.7	65.8	29.9	12.0	4.0	2.0	0.0	0.0	0.0
70°	9060.8	2356.0	79.8	39.9	18.0	8.0	0.0	0.0	0.0	0.0	0.0
72.5°	5631.6	1332.6	57.9	23.9	12.0	4.0	0.0	0.0	0.0	0.0	0.0
75°	2128.6	466.8	39.9	16.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	662.3	177.5	23.9	12.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	223.4	67.8	16.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	137.6	27.9	10.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	85.8	12.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.0	4.0	2.0	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)