

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: P459089

Luminaire Tested: **GALN-SA5D-735-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459089
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
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-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25987 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

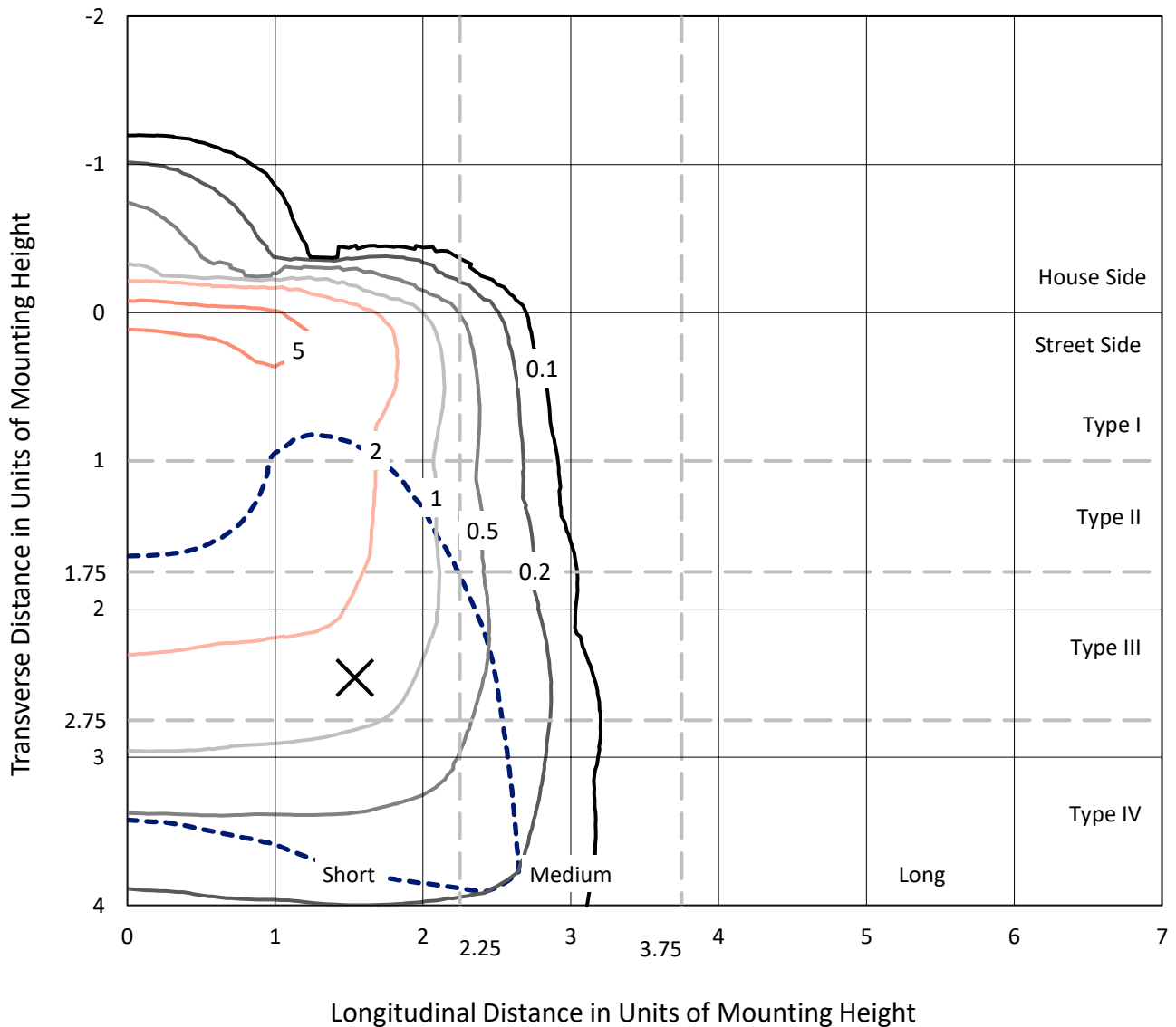
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

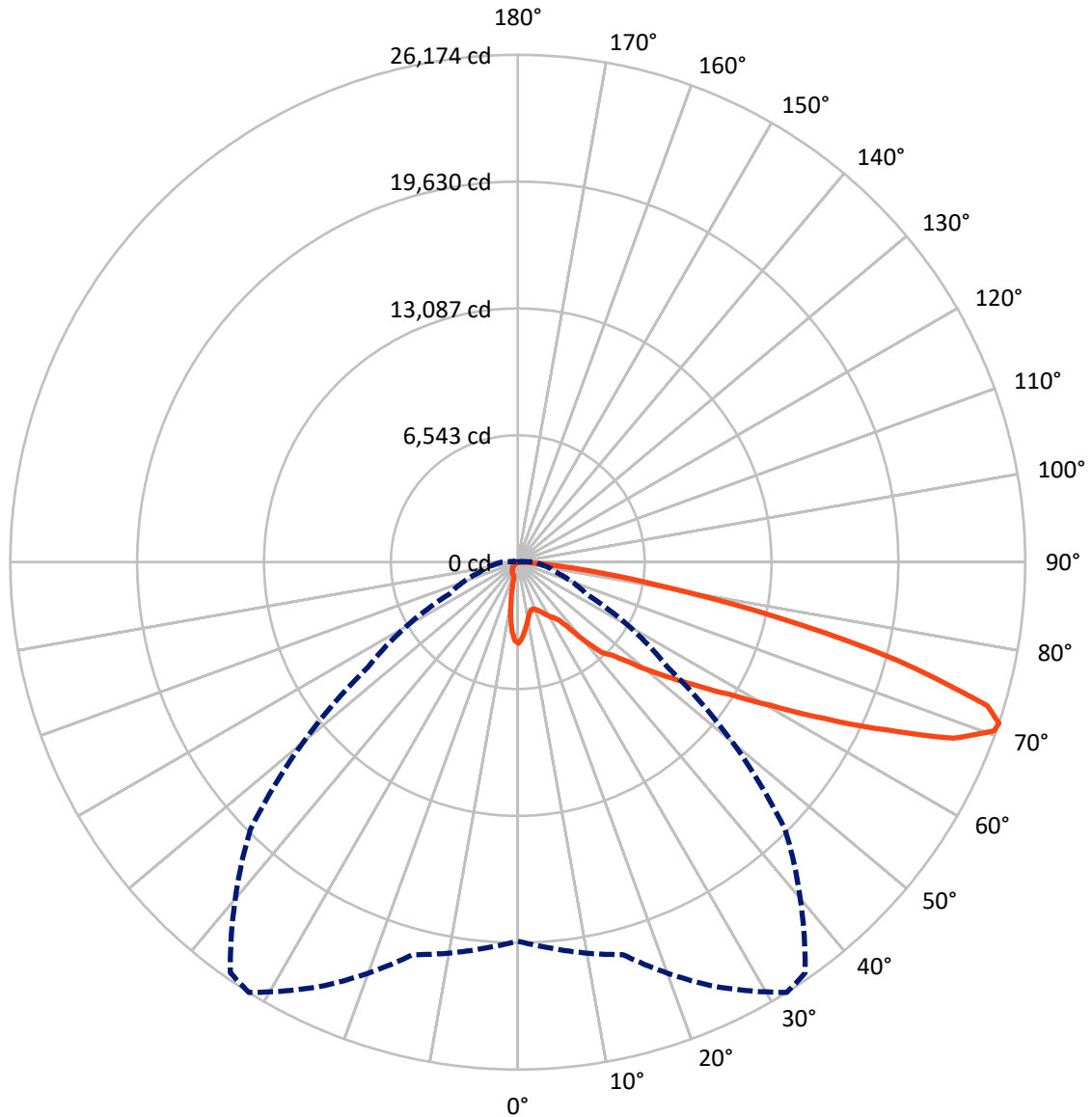
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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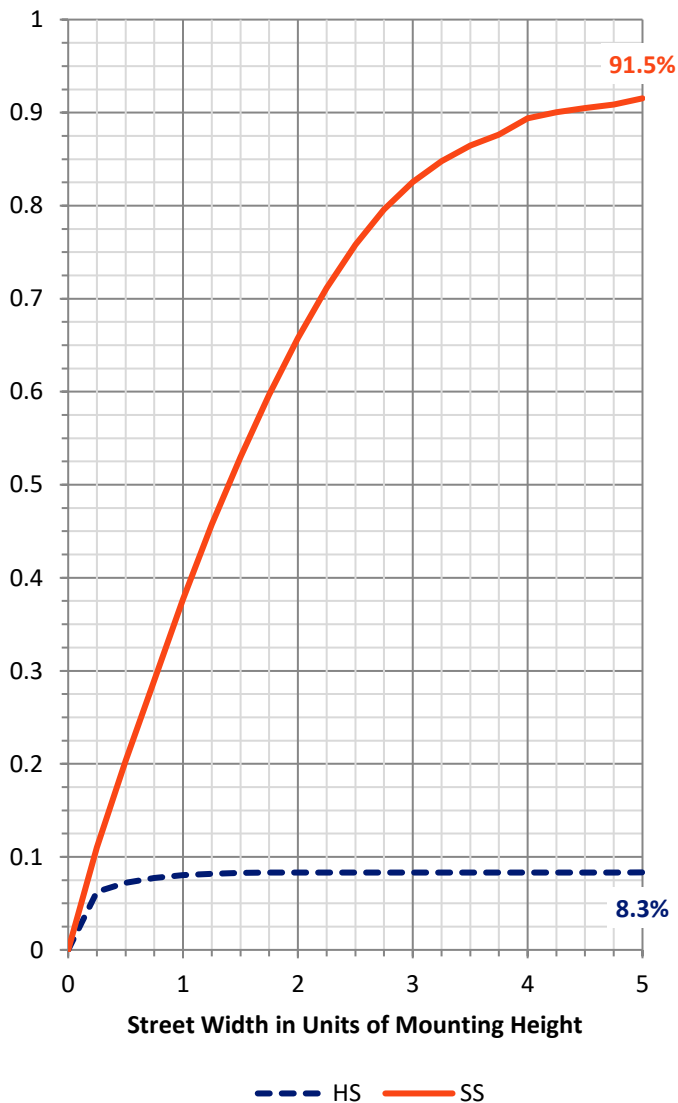
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2176.7	0.0	2176.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	23810.3	0.0	23810.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	25987.0	0.0	25987.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.8	1.3
10°-20°	737.5	2.8
20°-30°	1147.3	4.4
30°-40°	1911.5	7.4
40°-50°	3555.7	13.7
50°-60°	5708.8	22.0
60°-70°	7678.5	29.5
70°-80°	4555.8	17.5
80°-90°	352.1	1.4
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°	25987.0	100.0
0°-180°	25987.0	100.0

Coefficient of Utilization



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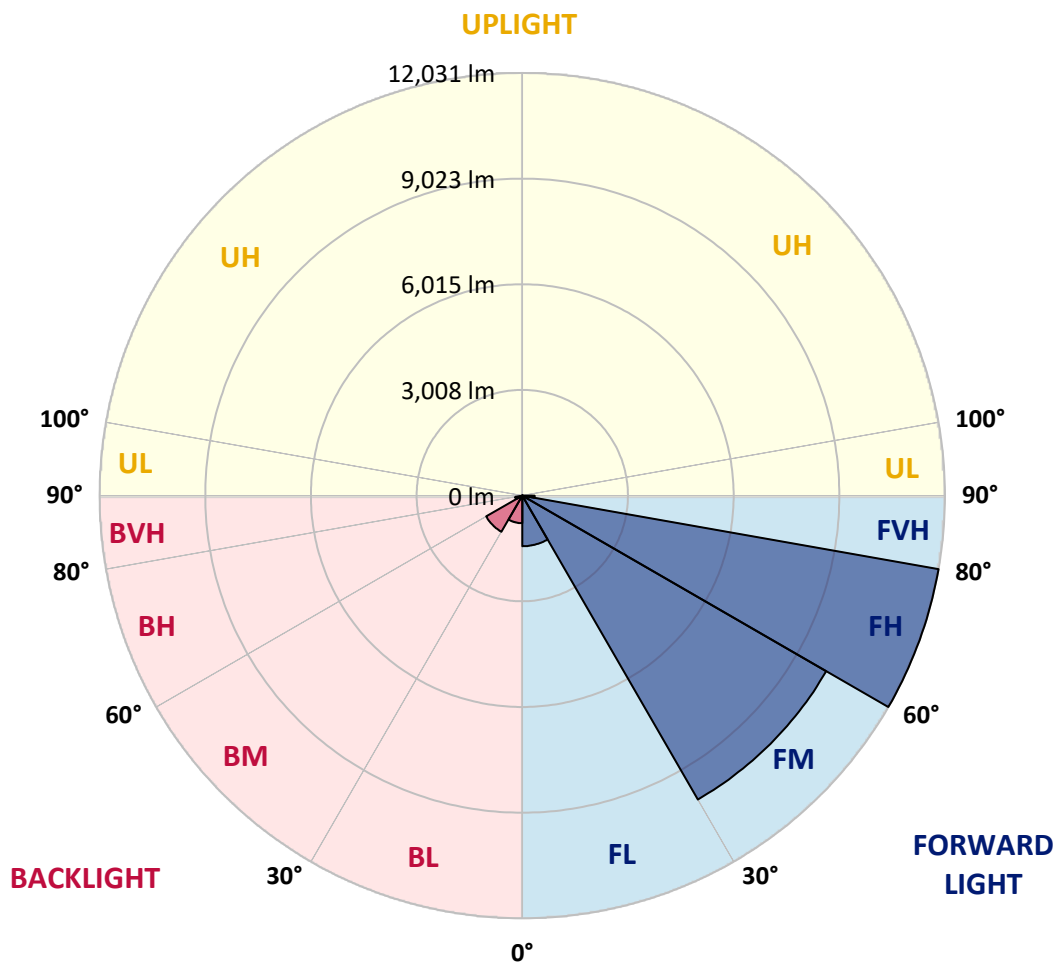
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1440.4	5.5			
FM	(30°-60°)	9988.4	38.4			
FH	(60°-80°)	12030.7	46.3			G5
FVH	(80°-90°)	350.8	1.3			G3/500
BL	(0°-30°)	784.3	3.0	B2/1000		
BM	(30°-60°)	1187.4	4.6	B2/2500		
BH	(60°-80°)	203.6	0.8	B1/500		G1/500
BVH	(80°-90°)	1.4	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	4179.1	4179.1	4179.1	4179.1	4179.1	4179.1	4179.1	4179.1	4179.1	4179.1	4179.1
2.5°	3875.9	3915.8	3909.8	3923.8	3957.7	3971.7	4009.6	4051.4	4109.3	4149.2	4175.1
5°	3471.0	3500.9	3504.9	3574.7	3608.6	3646.5	3758.2	3879.9	4015.5	4123.3	4195.1
7.5°	3038.1	3054.0	3086.0	3177.7	3263.5	3301.4	3471.0	3682.4	3895.9	4097.3	4227.0
10°	2681.0	2699.0	2756.8	2854.6	2934.4	2984.2	3219.6	3484.9	3784.1	4083.4	4272.9
12.5°	2477.5	2487.5	2509.5	2597.2	2699.0	2752.8	3006.2	3309.4	3694.4	4089.3	4350.7
15°	2463.6	2459.6	2433.7	2469.6	2561.3	2617.2	2864.5	3189.7	3614.6	4109.3	4442.4
17.5°	2537.4	2527.4	2465.6	2465.6	2541.4	2587.3	2804.7	3125.9	3574.7	4155.2	4572.1
20°	2651.1	2635.1	2533.4	2525.4	2599.2	2647.1	2840.6	3129.8	3582.7	4241.0	4745.6
22.5°	2794.7	2776.8	2623.2	2627.2	2706.9	2754.8	2944.3	3201.7	3632.5	4346.7	4931.2
25°	2982.2	2962.3	2780.8	2772.8	2856.6	2898.5	3097.9	3329.3	3702.4	4478.3	5174.5
27.5°	3231.6	3189.7	2972.3	2960.3	3050.1	3103.9	3283.4	3500.9	3826.0	4659.9	5501.7
30°	3437.0	3391.2	3183.7	3151.8	3247.5	3289.4	3474.9	3732.3	4069.4	4977.0	5954.5
32.5°	3706.3	3638.5	3395.2	3311.4	3413.1	3467.0	3752.2	4163.2	4430.5	5312.2	6493.1
35°	4312.8	4270.9	3973.7	3680.4	3674.4	3742.3	4161.2	4598.0	4801.5	5834.8	7227.2
37.5°	5180.5	5150.6	4835.4	4442.4	4328.7	4296.8	4657.9	5076.8	5394.0	6552.9	8081.0
40°	6187.9	6118.1	5828.8	5495.7	5348.1	5254.3	5244.3	5788.9	6167.9	7528.4	8970.6
42.5°	6910.0	6782.3	6431.2	6407.3	6375.4	6277.6	5994.4	6830.2	7167.3	8577.7	9922.2
45°	7668.0	7474.5	6951.9	6862.1	6850.2	6844.2	7127.4	8063.0	8256.5	9714.7	10899.6
47.5°	8256.5	8102.9	7674.0	7634.1	7684.0	7819.6	8625.5	9371.6	9331.7	10728.1	11719.5
50°	9040.5	8924.8	8448.0	8523.8	8781.1	9002.6	10315.1	10797.9	10215.4	11526.0	12315.9
52.5°	9966.0	9752.6	9309.8	9515.2	9910.2	10279.2	12108.5	12046.6	10835.8	12126.4	12760.8
55°	10768.0	10616.3	10464.7	10678.2	11268.7	11729.5	13728.2	12982.2	11286.6	12609.2	12956.3
57.5°	12124.4	12088.5	11932.9	12150.4	12866.5	13345.2	15178.5	13708.3	11575.9	12860.5	12726.9
60°	14131.2	14073.3	13784.1	14061.4	14994.9	15747.0	16515.0	14360.6	11641.7	12762.8	12066.6
62.5°	16544.9	16347.4	16100.1	16509.0	17789.7	18120.8	17773.7	14747.6	11396.3	11984.8	10474.7
65°	18799.0	18595.6	18601.6	19463.3	20857.7	21083.1	19241.9	14689.7	10678.2	10035.9	7725.9
67.5°	20524.5	20490.6	20734.0	22415.6	24238.9	24083.3	20554.5	13824.0	8549.7	6505.1	4105.3
70°	20612.3	20678.1	21376.3	24214.9	26066.1	25818.8	20442.8	11236.7	5330.1	2992.2	1617.8
71°	19551.1	19993.9	20959.4	24159.1	26173.8	25852.7	19501.2	9411.5	3909.8	2086.6	1167.0
72.5°	16660.6	16894.0	18980.6	22736.8	25322.0	24635.8	17113.4	6596.8	2503.5	1276.7	670.3
75°	9176.1	9750.6	12710.9	17837.5	20253.3	19650.8	11153.0	3133.8	1248.7	698.2	277.3
77.5°	4368.6	4256.9	6201.8	10608.4	13732.2	13700.3	5619.4	1392.4	728.1	472.8	139.6
80°	1248.7	1404.3	2373.8	5042.9	7624.1	7707.9	2158.4	672.2	504.7	369.0	71.8
82.5°	377.0	385.0	871.7	2230.2	3792.1	3574.7	809.9	343.1	363.1	293.2	41.9
85°	65.8	81.8	257.3	786.0	1446.2	1097.1	203.5	163.6	239.4	193.5	23.9
87.5°	4.0	6.0	85.8	89.8	127.7	73.8	35.9	23.9	51.9	51.9	14.0
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°	4179.1	4179.1	4179.1	4179.1	4179.1	4179.1	4179.1	4179.1	4179.1	4179.1	4179.1
2.5°	4193.1	4205.0	4197.1	4179.1	4149.2	4113.3	4065.4	4025.5	3991.6	3973.7	3995.6
5°	4219.0	4235.0	4195.1	4105.3	3969.7	3822.0	3654.5	3524.8	3423.1	3391.2	3379.2
7.5°	4258.9	4268.9	4161.2	3961.7	3674.4	3325.3	3020.1	2762.8	2563.3	2503.5	2415.7
10°	4310.8	4304.8	4101.3	3730.3	3225.6	2701.0	2228.2	1877.1	1611.8	1516.1	1508.1
12.5°	4390.6	4358.6	4025.5	3415.1	2691.0	2004.8	1420.3	1111.1	943.5	887.7	875.7
15°	4490.3	4414.5	3905.8	3046.1	2060.6	1294.6	875.7	782.0	760.0	756.0	752.0
17.5°	4608.0	4488.3	3748.2	2593.2	1448.2	839.8	732.1	730.1	732.1	728.1	726.1
20°	4767.6	4566.1	3560.7	2056.6	957.5	708.2	698.2	698.2	700.2	698.2	698.2
22.5°	4937.1	4657.9	3329.3	1569.9	722.1	672.2	670.3	674.2	678.2	676.2	676.2
25°	5146.6	4777.6	3024.1	1075.2	646.3	642.3	644.3	652.3	660.3	662.3	660.3
27.5°	5449.8	4925.2	2697.0	740.1	592.5	596.4	616.4	636.3	648.3	650.3	650.3
30°	5790.9	5088.7	2270.1	600.4	548.6	548.6	572.5	610.4	636.3	640.3	642.3
32.5°	6229.8	5278.3	1797.3	540.6	506.7	502.7	524.6	570.5	618.4	632.4	632.4
35°	6772.4	5501.7	1336.5	502.7	476.8	466.8	478.8	516.7	578.5	618.4	622.4
37.5°	7408.7	5713.1	977.5	468.8	448.8	434.9	442.8	472.8	522.6	582.5	598.4
40°	7997.2	5900.6	730.1	440.9	420.9	410.9	416.9	430.9	472.8	528.6	538.6
42.5°	8639.5	6046.3	580.5	410.9	393.0	389.0	389.0	395.0	422.9	454.8	456.8
45°	9279.8	6098.1	486.7	375.0	363.1	367.0	365.0	361.1	373.0	369.0	369.0
47.5°	9736.6	6036.3	403.0	341.1	341.1	347.1	337.1	323.2	317.2	293.2	295.2
50°	10049.8	5810.9	331.1	301.2	317.2	325.2	305.2	283.3	261.3	235.4	229.4
52.5°	10179.5	5409.9	271.3	249.4	281.3	291.2	267.3	241.4	207.5	185.5	179.5
55°	10095.7	4915.2	225.4	203.5	237.4	249.4	225.4	195.5	157.6	133.7	129.7
57.5°	9726.7	4324.7	191.5	161.6	189.5	197.5	181.5	149.6	111.7	87.8	87.8
60°	9088.3	3714.3	155.6	127.7	141.6	153.6	137.6	107.7	75.8	53.9	49.9
62.5°	7793.7	3016.1	125.7	99.7	99.7	109.7	95.8	77.8	47.9	27.9	25.9
65°	5627.3	2068.6	99.7	73.8	71.8	71.8	59.8	51.9	27.9	12.0	8.0
67.5°	3058.0	1167.0	79.8	55.9	49.9	47.9	37.9	29.9	12.0	2.0	0.0
70°	1202.9	448.8	61.8	37.9	31.9	29.9	19.9	14.0	8.0	0.0	0.0
71°	815.9	309.2	53.9	31.9	25.9	21.9	16.0	12.0	6.0	0.0	0.0
72.5°	466.8	191.5	41.9	23.9	19.9	16.0	12.0	8.0	6.0	0.0	0.0
75°	203.5	97.7	25.9	18.0	14.0	10.0	8.0	6.0	2.0	0.0	0.0
77.5°	103.7	53.9	18.0	14.0	8.0	6.0	4.0	2.0	0.0	0.0	0.0
80°	57.8	27.9	12.0	8.0	6.0	4.0	2.0	2.0	0.0	0.0	0.0
82.5°	31.9	16.0	6.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.9	10.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.0	4.0	0.0	0.0	0.0	0.0	2.0	2.0	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)