

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: P529384

Luminaire Tested: **GALN-SA4C-735-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529384
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-735-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21732 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

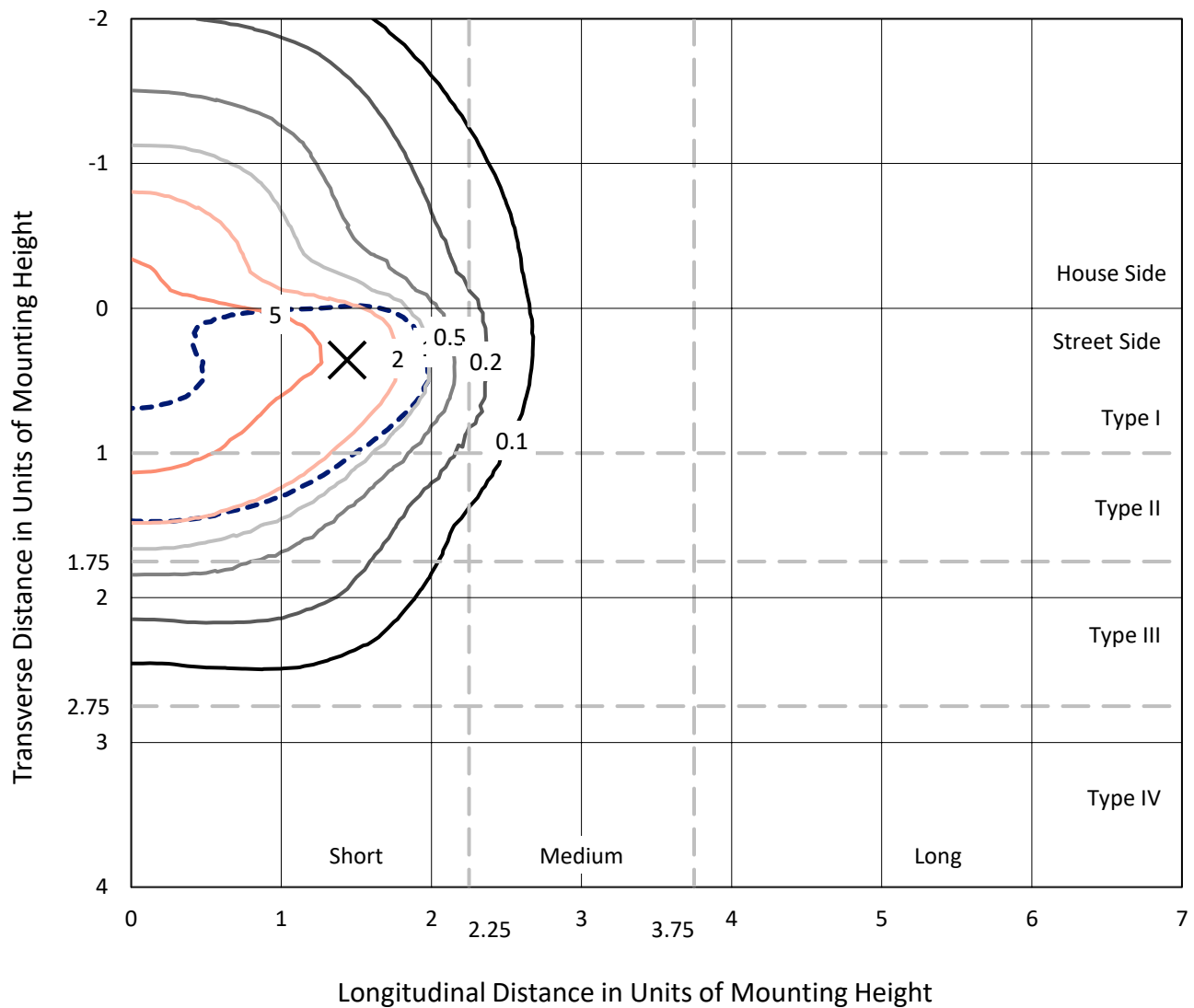
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

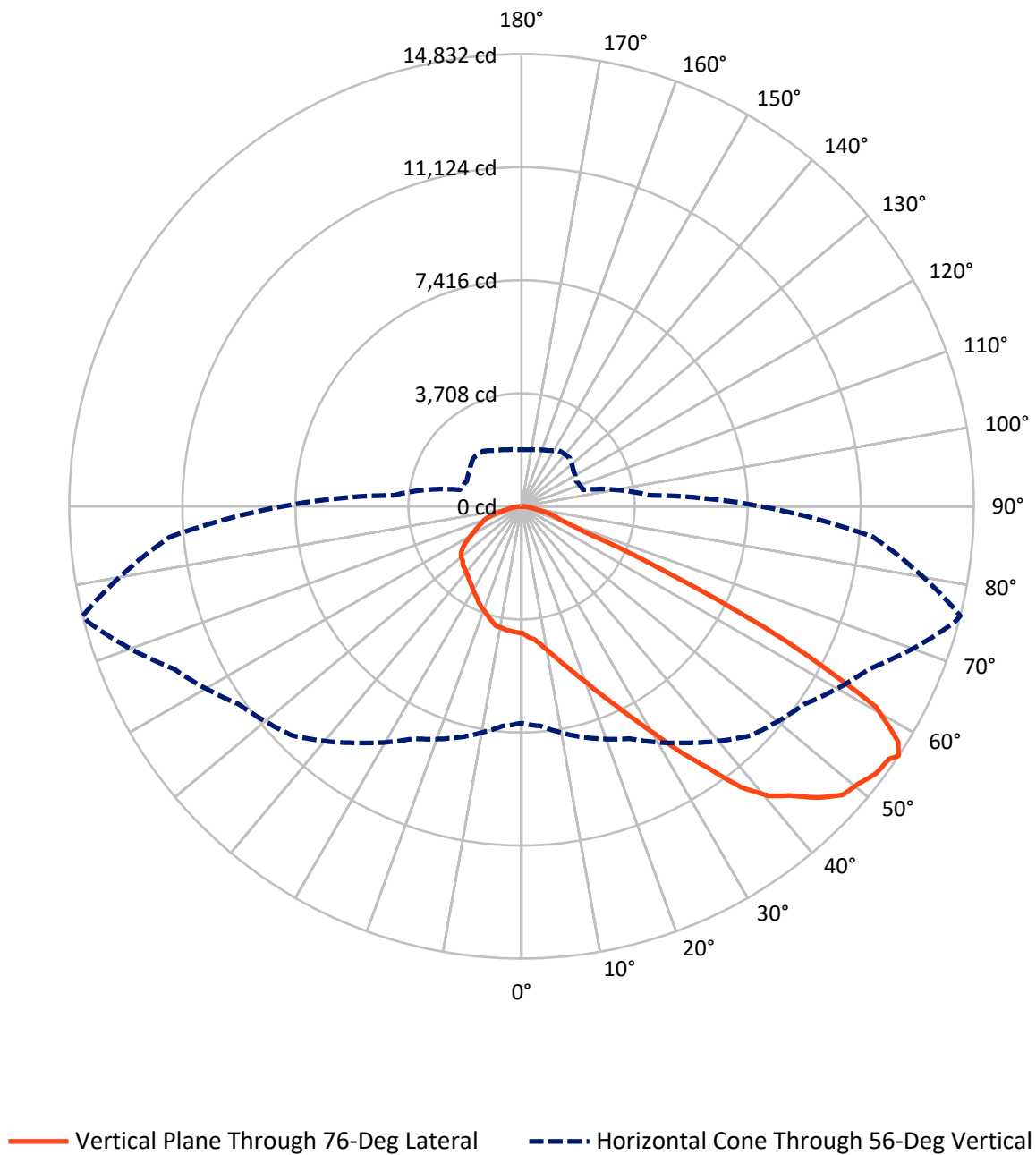
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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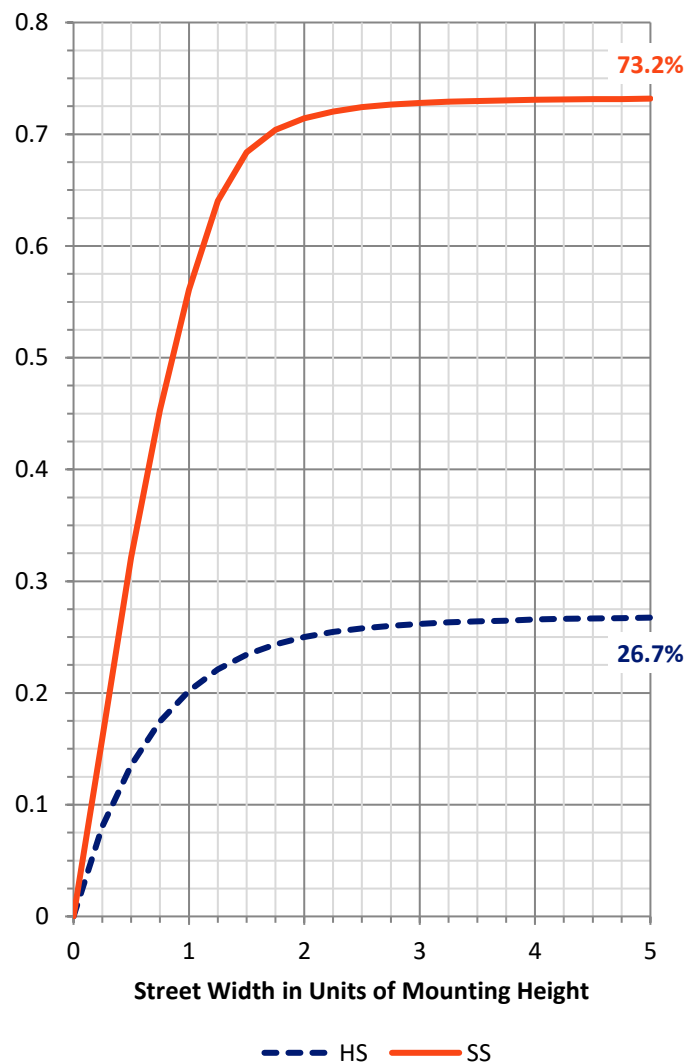
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5843.1	0.0	5843.1
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	15888.9	0.0	15888.9
	% Fixture	73.1	0.0	73.1
Total	Lumens	21732.0	0.0	21732.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.4	1.9
10°-20°	1295.4	6.0
20°-30°	2265.4	10.4
30°-40°	3547.0	16.3
40°-50°	5159.9	23.7
50°-60°	5671.0	26.1
60°-70°	2531.3	11.6
70°-80°	731.1	3.4
80°-90°	118.6	0.5
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°	21732.0	100.0
0°-180°	21732.0	100.0

Coefficient of Utilization



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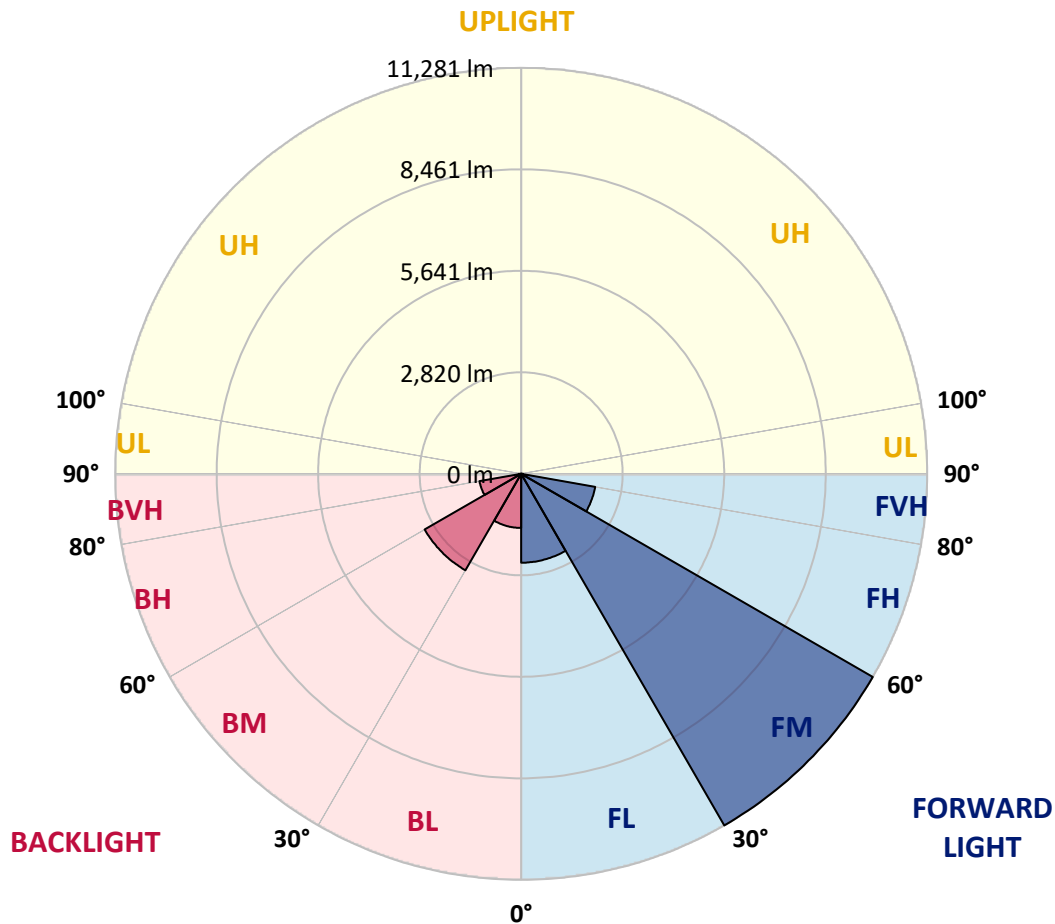
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2469.6	11.4			
FM	(30°-60°)	11281.5	51.9			
FH	(60°-80°)	2086.8	9.6			G2/5000
FVH	(80°-90°)	51.1	0.2			G1/100
BL	(0°-30°)	1503.5	6.9	B3/2500		
BM	(30°-60°)	3096.4	14.2	B3/5000		
BH	(60°-80°)	1175.6	5.4	B3/2500		G3/2500
BVH	(80°-90°)	67.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4158.1	4158.1	4158.1	4158.1	4158.1	4158.1	4158.1	4158.1	4158.1	4158.1	4158.1
2.5°	4580.7	4507.5	4501.8	4482.1	4493.4	4442.7	4389.1	4318.7	4245.5	4290.5	4183.5
5°	4901.9	4803.3	4842.7	4775.1	4783.6	4715.9	4606.1	4524.4	4434.2	4380.7	4304.6
7.5°	5014.6	5023.0	5051.2	5039.9	4983.6	4983.6	4910.3	4766.6	4608.9	4577.9	4451.1
10°	5166.7	5169.5	5138.5	5147.0	5225.8	5189.2	5124.4	5062.4	4859.6	4823.0	4597.6
12.5°	5220.2	5169.5	5220.2	5265.3	5358.3	5409.0	5394.9	5349.8	5132.9	5107.5	4777.9
15°	5228.7	5197.7	5239.9	5341.3	5423.0	5637.2	5744.2	5713.2	5425.9	5428.7	4980.8
17.5°	5189.2	5231.5	5248.4	5335.7	5524.5	5724.5	6034.4	6076.6	5840.0	5803.4	5237.1
20°	5242.7	5211.8	5234.3	5313.2	5563.9	5876.6	6282.3	6561.2	6228.8	6203.4	5501.9
22.5°	5448.4	5406.1	5400.5	5451.2	5631.5	5955.5	6544.3	7045.7	6702.0	6716.1	5831.5
25°	5609.0	5631.5	5611.8	5609.0	5721.7	6073.8	6890.8	7623.3	7344.4	7262.7	6220.3
27.5°	5885.1	5938.6	5899.1	5952.7	5927.3	6251.3	7138.7	8262.8	8037.4	7927.5	6572.5
30°	6268.2	6296.4	6259.7	6259.7	6183.7	6499.2	7364.1	8930.4	8837.5	8688.1	6986.6
32.5°	6772.5	6814.7	6741.5	6699.2	6688.0	6868.3	7769.7	9589.6	9747.4	9620.6	7535.9
35°	7440.1	7414.8	7327.5	7288.0	7135.9	7434.5	8372.6	10347.5	10761.6	10536.2	8200.8
37.5°	8028.9	7989.5	7983.9	7764.1	7800.7	8045.8	8885.3	10922.2	11744.8	11680.0	8902.2
40°	8578.3	8614.9	8674.1	8550.1	8493.8	8764.2	9482.6	11361.6	12508.2	12482.9	9443.1
42.5°	9167.1	9133.3	9237.5	9133.3	9048.7	9431.9	10130.5	11665.9	13178.7	12970.2	10009.4
45°	10020.7	9913.6	9950.2	9958.7	9896.7	10037.6	10398.2	11885.6	13649.2	13626.6	10423.5
47.5°	10733.4	10736.2	10674.2	10626.4	10437.6	10578.5	10696.8	12023.7	14190.1	14153.4	10584.1
50°	10998.2	10961.6	11141.9	11246.1	11257.4	10970.1	10930.6	12099.7	14474.6	14314.0	10744.7
52.5°	10046.0	10079.8	10364.4	10984.1	11341.9	11372.9	11203.9	12257.5	14590.1	14556.3	10874.3
55°	8085.3	8248.7	8716.3	9431.9	10279.8	11212.3	11499.7	12420.9	14652.1	14623.9	11449.0
56°	7107.7	7234.5	7843.0	8403.6	9468.5	10629.2	11313.7	12595.6	14700.0	14832.4	11584.2
57.5°	5721.7	5868.2	6304.8	6941.5	8198.0	9519.2	10801.0	12381.5	14514.0	14564.8	11682.8
60°	3577.8	3591.9	4115.9	4535.6	5420.2	6710.5	8243.0	10772.8	13432.3	13359.0	10493.9
62.5°	2346.7	2349.5	2825.6	3169.3	3572.2	3868.0	4851.2	7144.3	9910.8	9781.2	7471.1
65°	1648.0	1684.7	2053.7	2512.9	2676.3	2521.4	2490.4	3766.6	5535.7	5349.8	4014.5
67.5°	1205.7	1208.6	1535.4	2028.4	2265.0	1918.5	1557.9	1839.6	2191.8	2186.1	1859.3
70°	797.3	831.1	1081.8	1515.6	1786.1	1541.0	1273.4	1315.6	1394.5	1394.5	1383.2
72.5°	464.8	495.8	662.0	960.7	1002.9	963.5	1008.5	1126.9	1177.6	1174.8	1160.7
75°	264.8	278.9	315.5	400.0	498.6	588.8	740.9	853.6	904.3	935.3	898.7
77.5°	154.9	163.4	185.9	228.2	259.2	318.3	402.9	481.7	549.3	540.9	546.5
80°	81.7	81.7	104.2	135.2	180.3	225.4	267.6	312.7	349.3	357.8	366.2
82.5°	47.9	50.7	67.6	98.6	129.6	160.6	205.7	236.6	270.4	273.3	278.9
85°	25.4	28.2	42.3	64.8	87.3	98.6	101.4	95.8	104.2	98.6	112.7
87.5°	8.5	8.5	14.1	11.3	11.3	14.1	16.9	16.9	22.5	22.5	22.5
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°	4158.1	4158.1	4158.1	4158.1	4158.1	4158.1	4158.1	4158.1	4158.1	4158.1	4158.1
2.5°	4180.7	4180.7	4132.8	4042.6	4028.5	3991.9	3958.1	3955.3	3929.9	3907.4	3896.1
5°	4259.6	4172.2	4101.8	4020.1	3924.3	3879.2	3828.5	3772.2	3749.6	3772.2	3769.4
7.5°	4349.7	4276.5	4065.2	3913.0	3803.2	3758.1	3701.8	3642.6	3648.2	3648.2	3608.8
10°	4437.0	4338.4	4000.4	3806.0	3645.4	3611.6	3580.6	3603.2	3631.3	3637.0	3611.6
12.5°	4583.5	4361.0	3969.4	3698.9	3597.5	3524.3	3544.0	3606.0	3665.1	3648.2	3668.0
15°	4693.4	4380.7	3828.5	3589.1	3462.3	3496.1	3566.5	3608.8	3707.4	3696.1	3715.8
17.5°	4800.5	4392.0	3690.5	3442.6	3389.1	3482.0	3535.5	3656.7	3687.7	3755.3	3780.6
20°	5020.2	4414.5	3549.6	3352.4	3335.5	3442.6	3535.5	3591.9	3659.5	3718.7	3718.7
22.5°	5132.9	4403.2	3456.7	3234.1	3287.6	3355.2	3439.8	3535.5	3535.5	3591.9	3594.7
25°	5273.7	4358.2	3310.2	3177.8	3217.2	3282.0	3377.8	3344.0	3380.6	3380.6	3425.7
27.5°	5434.3	4262.4	3183.4	3076.3	3155.2	3225.7	3239.7	3217.2	3174.9	3169.3	3152.4
30°	5563.9	4144.1	3090.4	3042.5	3107.3	3146.8	3101.7	3053.8	2980.6	2974.9	2935.5
32.5°	5741.4	3997.6	2974.9	2958.0	3031.3	3034.1	3020.0	2946.8	2839.7	2794.6	2749.6
35°	6040.0	3913.0	2887.6	2913.0	2935.5	2927.0	2901.7	2822.8	2715.7	2696.0	2679.1
37.5°	6259.7	3851.1	2797.4	2828.4	2848.2	2859.4	2783.4	2696.0	2698.8	2659.4	2648.1
40°	6507.7	3811.6	2724.2	2738.3	2741.1	2777.7	2684.8	2642.5	2662.2	2636.9	2653.8
42.5°	6826.0	3822.9	2648.1	2636.9	2690.4	2676.3	2631.2	2574.9	2586.2	2510.1	2521.4
45°	6995.0	3899.0	2603.1	2552.4	2611.5	2608.7	2549.5	2496.0	2428.4	2281.9	2287.5
47.5°	7107.7	3918.7	2496.0	2462.2	2524.2	2560.8	2493.2	2369.2	2273.5	2169.2	2143.9
50°	7223.2	3955.3	2445.3	2374.9	2400.2	2487.6	2403.0	2284.7	2191.8	2098.8	2112.9
52.5°	7324.6	4025.7	2346.7	2242.5	2287.5	2383.3	2338.2	2194.6	2093.2	2017.1	1994.6
55°	7775.4	4183.5	2180.5	2045.3	2152.3	2273.5	2248.1	2073.4	1963.6	1924.1	1918.5
56°	7845.8	4189.1	2093.2	1977.7	2076.3	2236.8	2205.8	2019.9	1921.3	1859.3	1862.1
57.5°	7857.1	4121.5	1969.2	1915.7	2000.2	2183.3	2143.9	1977.7	1842.4	1786.1	1769.2
60°	6913.3	3217.2	1814.3	1780.4	1879.1	2019.9	2005.8	1862.1	1710.0	1645.2	1676.2
62.5°	4713.1	2358.0	1693.1	1687.5	1738.2	1876.2	1839.6	1710.0	1583.2	1541.0	1521.3
65°	2743.9	1788.9	1574.8	1552.3	1594.5	1667.8	1693.1	1557.9	1425.5	1397.3	1388.9
67.5°	1619.9	1479.0	1422.7	1386.0	1372.0	1417.0	1436.8	1357.9	1225.5	1186.0	1219.8
70°	1355.1	1315.6	1318.4	1256.5	1222.7	1191.7	1174.8	1104.3	994.5	943.8	929.7
72.5°	1169.1	1152.2	1141.0	1084.6	1053.6	983.2	909.9	839.5	757.8	715.6	718.4
75°	893.0	887.4	893.0	864.9	811.3	755.0	687.4	597.2	535.3	481.7	493.0
77.5°	532.4	549.3	557.8	546.5	524.0	473.3	431.0	371.9	312.7	270.4	264.8
80°	366.2	380.3	394.4	380.3	357.8	321.2	276.1	231.0	188.8	166.2	160.6
82.5°	278.9	293.0	301.4	287.4	259.2	219.7	188.8	157.8	124.0	101.4	95.8
85°	101.4	115.5	112.7	135.2	146.5	140.9	121.1	93.0	70.4	50.7	47.9
87.5°	28.2	25.4	28.2	28.2	28.2	25.4	22.5	22.5	22.5	14.1	11.3
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)