

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: P533494

Luminaire Tested: **GALN-SA8D-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533494
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-830-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43620 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

Input Watts (W): 493
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

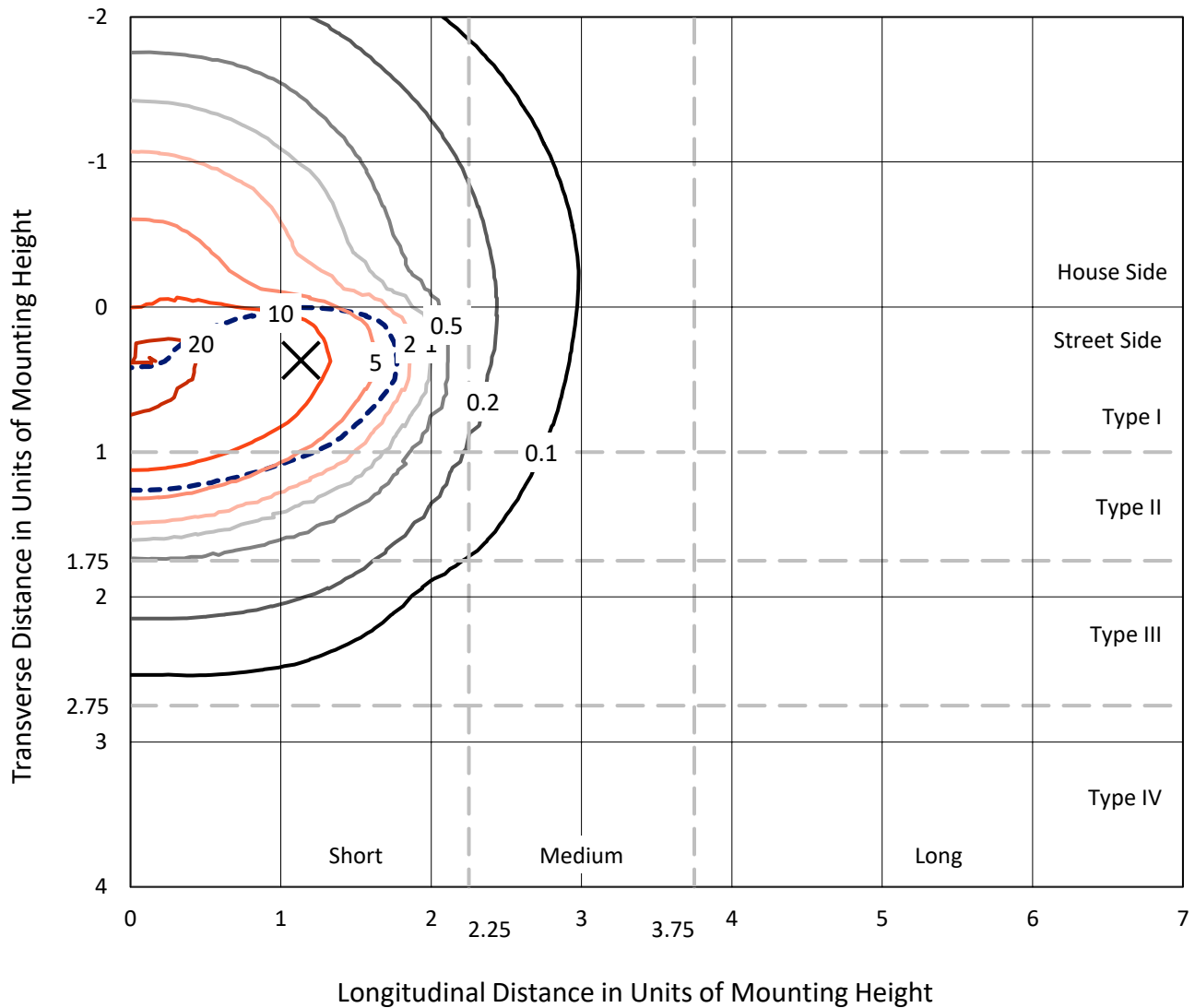


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

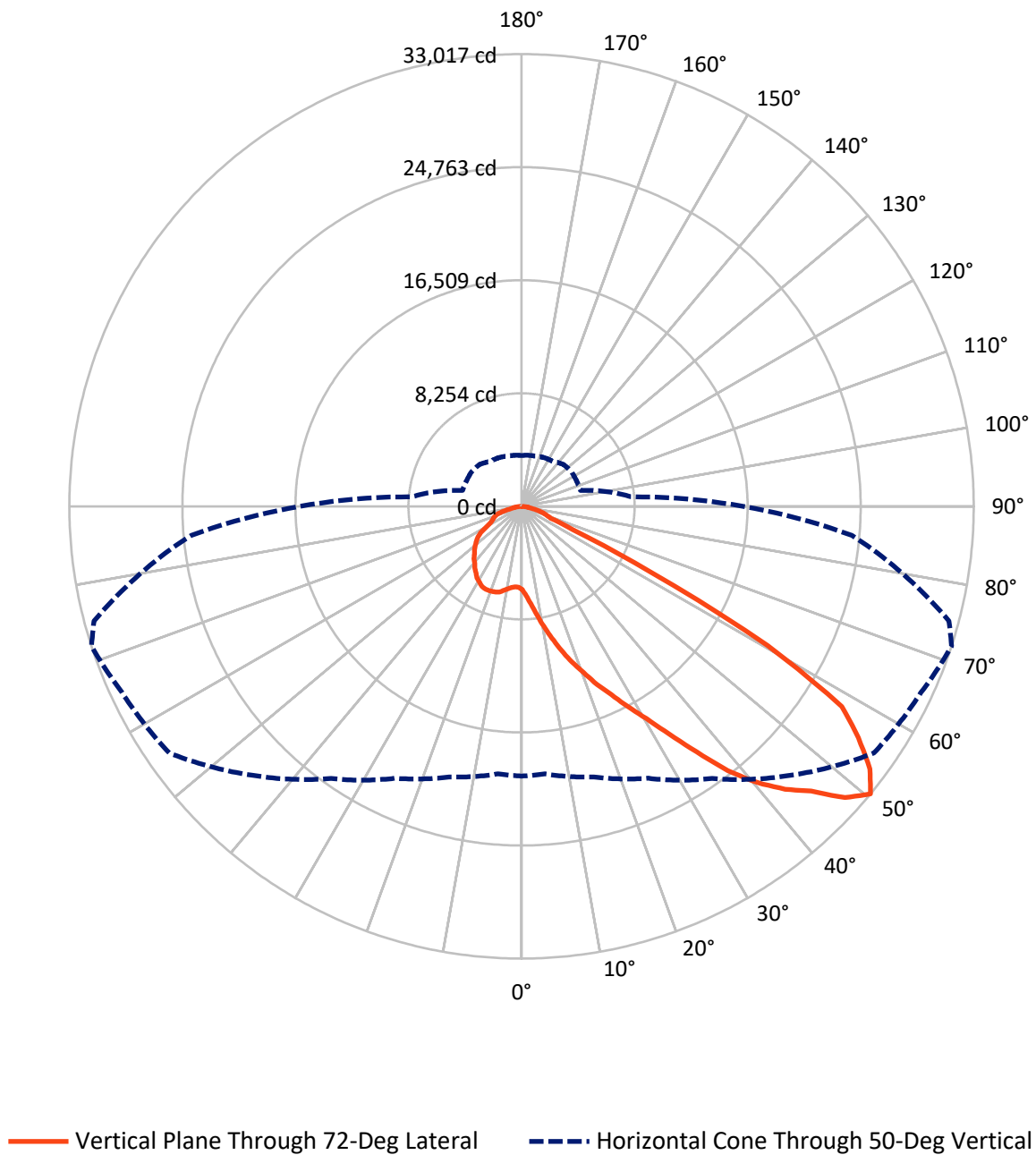


Based on 25 foot mounting height. Maximum calculated value = 21.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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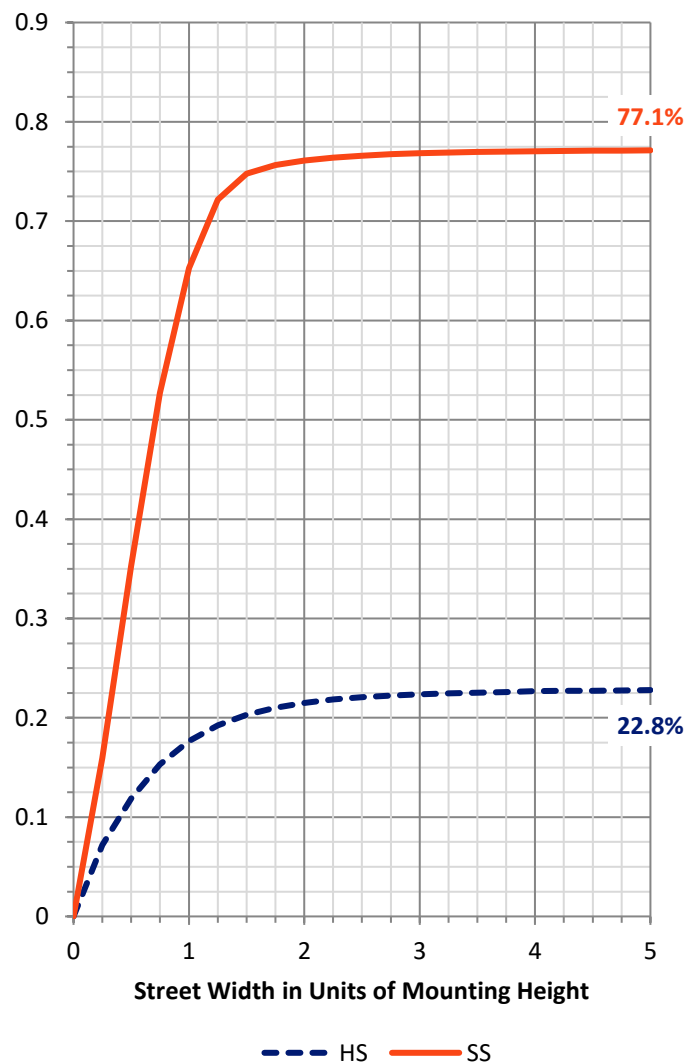
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9993.6	0.0	9993.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	33626.4	0.0	33626.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	43620.0	0.0	43620.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	714.2	1.6
10°-20°	2670.1	6.1
20°-30°	5177.2	11.9
30°-40°	8576.8	19.7
40°-50°	12000.8	27.5
50°-60°	10124.2	23.2
60°-70°	3085.8	7.1
70°-80°	1082.6	2.5
80°-90°	188.2	0.4
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°	43620.0	100.0
0°-180°	43620.0	100.0

Coefficient of Utilization



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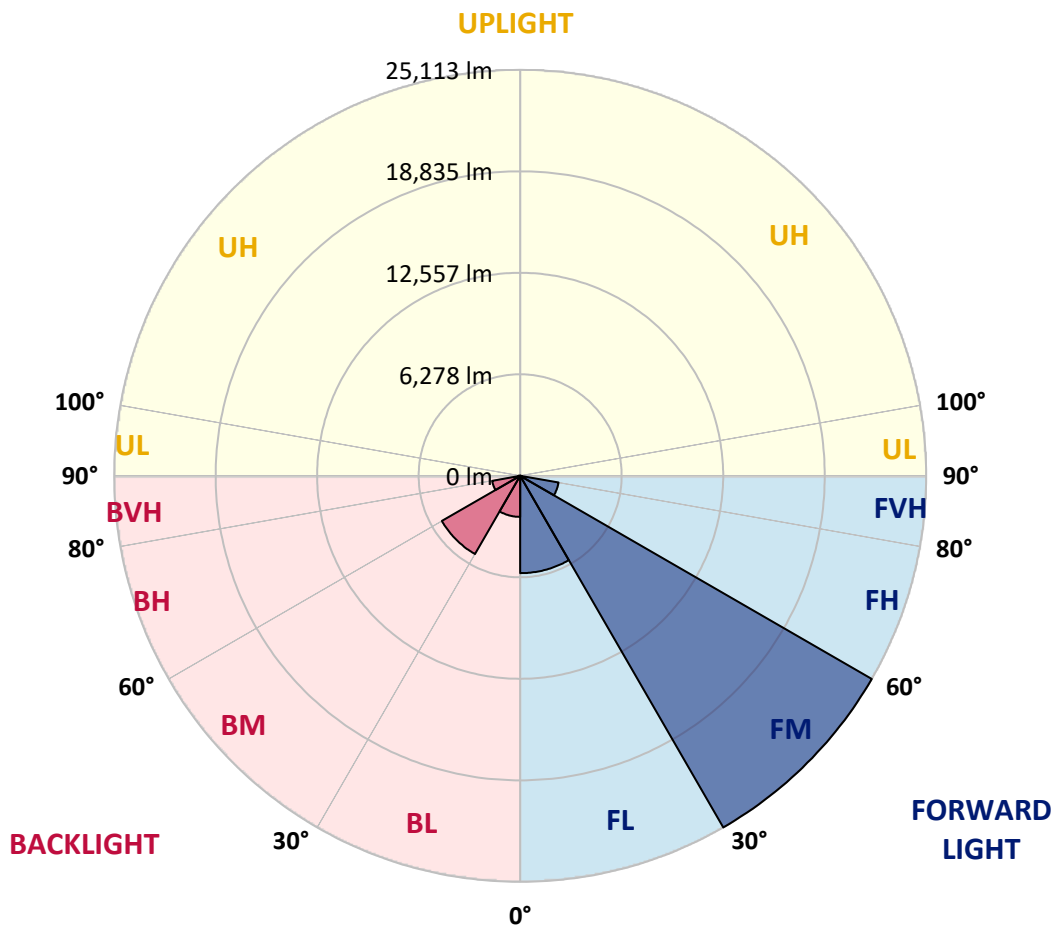
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6021.1	13.8			
FM	(30°-60°)	25113.2	57.6			
FH	(60°-80°)	2407.7	5.5			G2/5000
FVH	(80°-90°)	84.3	0.2			G1/100
BL	(0°-30°)	2540.4	5.8	B4/5000		
BM	(30°-60°)	5588.6	12.8	B4/8500		
BH	(60°-80°)	1760.7	4.0	B3/2500		G3/2500
BVH	(80°-90°)	103.9	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	6072.3	6072.3	6072.3	6072.3	6072.3	6072.3	6072.3	6072.3	6072.3	6072.3	6072.3
2.5°	7810.3	7761.7	7616.0	7567.4	7394.7	7081.6	6973.7	6655.2	6520.3	6396.1	6250.4
5°	9877.6	9650.9	9634.7	9359.4	8960.0	8727.9	8037.0	7572.8	7146.4	6930.5	6531.1
7.5°	11194.6	11200.0	11200.0	10973.3	10654.8	10066.5	9445.8	8609.1	7966.8	7648.4	6968.3
10°	12446.8	12338.9	12279.5	12257.9	12042.0	11469.9	10806.0	9769.6	8889.8	8517.4	7297.5
12.5°	13332.0	13240.3	13375.2	13305.0	13148.5	12776.1	12149.9	10967.9	9866.8	9364.8	7826.5
15°	13753.0	13817.8	13925.8	14120.1	14049.9	13909.6	13218.7	12198.5	10919.3	10352.6	8296.1
17.5°	14400.7	14222.6	14352.2	14595.1	14789.4	14724.6	14330.6	13089.1	11961.0	11264.7	8927.6
20°	14854.1	14751.6	14816.4	15097.0	15242.8	15609.8	15404.7	14255.0	12959.6	12225.5	9672.5
22.5°	16149.6	15998.4	15787.9	15831.1	15885.1	16144.2	16192.7	15534.2	14120.1	13342.8	10379.5
25°	17747.2	17606.9	17358.6	17104.9	16948.4	16899.8	17067.1	16538.2	15232.0	14427.7	11140.6
27.5°	19506.8	19269.4	19112.8	18589.3	18168.2	18103.5	18022.5	17736.4	16549.0	15680.0	11998.8
30°	21217.9	21029.0	20818.5	19981.8	19544.6	19474.5	19075.0	19156.0	17979.3	17013.2	12970.4
32.5°	22513.3	22529.5	22049.1	21417.6	21007.4	20634.9	20489.2	20721.3	19814.5	19037.3	14055.3
35°	23560.4	23609.0	23150.2	22578.1	22135.5	22394.6	22329.8	22437.7	22005.9	21056.0	15318.3
37.5°	24580.6	24337.7	23846.5	23571.2	23339.1	23765.5	24316.1	24407.9	24488.8	23371.5	16786.5
40°	24747.9	24769.5	24483.4	24677.7	24386.3	25028.6	26307.8	26189.1	26518.3	25541.3	18378.8
42.5°	24510.4	24559.0	24672.3	24947.6	25649.3	26421.1	28321.1	27835.3	28234.7	27365.7	19927.9
45°	24121.8	23922.1	24062.4	25109.5	26324.0	28040.4	30161.7	29783.8	29654.3	28925.6	21773.8
47.5°	22265.0	22470.1	22907.3	24197.3	26021.7	28321.1	31467.9	31381.5	31770.1	31257.4	23452.5
50°	19690.4	19609.4	20451.4	21903.4	24256.7	27770.5	31397.7	32180.4	33017.0	32304.5	24202.7
52.5°	14746.2	15178.0	15901.3	17704.1	21061.4	24769.5	29864.8	31171.0	31851.1	31700.0	23598.2
55°	9321.6	9451.2	9888.4	12031.2	15053.8	19879.3	25600.7	28628.8	29843.2	30410.0	23042.3
57.5°	4528.6	4285.7	4820.0	6541.9	8695.5	13369.8	19744.3	24936.8	27576.2	28601.8	21833.2
60°	2364.1	2455.9	2666.4	3281.7	4496.2	6941.3	12306.5	16619.1	20651.1	22227.2	16549.0
62.5°	1959.3	1991.7	2132.0	2439.7	2990.3	3994.2	6282.8	8101.8	10530.7	11950.2	9413.4
65°	1662.5	1678.6	1829.8	2034.9	2385.7	2812.1	3233.1	3384.3	4096.8	4204.7	3346.5
67.5°	1387.2	1403.4	1565.3	1759.6	1986.3	2099.7	2207.6	2196.8	2277.8	2245.4	2240.0
70°	1068.7	1084.9	1252.2	1457.3	1570.7	1505.9	1840.6	1916.1	1948.5	1975.5	2018.7
72.5°	771.9	804.2	933.8	1079.5	1020.1	1171.3	1516.7	1630.1	1673.2	1689.4	1743.4
75°	561.3	572.1	604.5	561.3	647.7	815.0	1068.7	1209.1	1263.0	1279.2	1360.2
77.5°	248.3	253.7	259.1	323.9	415.6	507.4	636.9	750.3	825.8	847.4	869.0
80°	129.5	134.9	167.3	221.3	296.9	372.4	464.2	529.0	577.5	582.9	604.5
82.5°	81.0	86.4	118.7	156.5	210.5	275.3	340.0	394.0	431.8	437.2	442.6
85°	37.8	48.6	70.2	97.2	140.3	178.1	183.5	156.5	167.3	172.7	161.9
87.5°	10.8	16.2	21.6	16.2	21.6	21.6	27.0	32.4	32.4	32.4	37.8
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°	6072.3	6072.3	6072.3	6072.3	6072.3	6072.3	6072.3	6072.3	6072.3	6072.3	6072.3
2.5°	6169.4	6120.9	5931.9	5861.8	5678.3	5710.6	5613.5	5608.1	5586.5	5581.1	5575.7
5°	6320.6	6169.4	5942.7	5770.0	5667.5	5656.7	5586.5	5586.5	5608.1	5624.3	5586.5
7.5°	6568.9	6396.1	6012.9	5851.0	5759.2	5743.0	5694.4	5656.7	5705.2	5689.0	5645.9
10°	6854.9	6552.7	6147.8	6007.5	5856.4	5818.6	5818.6	5834.8	5753.8	5780.8	5737.6
12.5°	7173.4	6768.6	6320.6	6158.6	5980.5	5958.9	5948.1	5829.4	5872.6	5851.0	5743.0
15°	7578.2	7016.9	6541.9	6266.6	6115.5	6018.3	5878.0	5856.4	5829.4	5775.4	5726.8
17.5°	8015.4	7286.7	6644.4	6299.0	6072.3	6002.1	5894.2	5780.8	5699.8	5710.6	5672.9
20°	8387.8	7535.0	6682.2	6331.4	6039.9	5905.0	5737.6	5667.5	5581.1	5575.7	5570.3
22.5°	8830.4	7869.7	6736.2	6245.0	5942.7	5802.4	5689.0	5564.9	5505.5	5430.0	5467.7
25°	9359.4	7999.2	6747.0	6196.4	5872.6	5624.3	5564.9	5430.0	5408.4	5300.4	5322.0
27.5°	9742.6	8069.4	6660.6	6045.3	5710.6	5521.7	5413.8	5316.6	5278.8	5197.9	5176.3
30°	10255.4	8177.3	6477.1	5856.4	5548.7	5338.2	5273.4	5251.8	5143.9	5057.5	5046.7
32.5°	10838.3	8247.5	6358.3	5662.1	5381.4	5219.5	5251.8	5149.3	5014.4	4938.8	4917.2
35°	11302.5	8274.5	6061.5	5440.8	5268.0	5165.5	5127.7	5106.1	4911.8	4841.6	4787.7
37.5°	12009.6	8215.1	5813.2	5284.2	5143.9	5106.1	5073.7	4928.0	4706.7	4604.1	4528.6
40°	12835.4	8198.9	5494.7	5062.9	5025.1	5068.3	4971.2	4744.5	4436.8	4323.5	4269.5
42.5°	13628.9	8312.3	5295.0	4944.2	4895.6	4911.8	4776.9	4436.8	4285.7	4220.9	4134.5
45°	14956.7	8549.8	4965.8	4760.7	4739.1	4728.3	4566.4	4210.1	4123.8	4042.8	4026.6
47.5°	16155.0	8393.2	4755.3	4571.7	4593.3	4534.0	4188.5	4075.2	3978.0	3897.1	3870.1
50°	16225.1	8020.8	4458.4	4426.0	4431.4	4328.9	3999.6	3924.0	3799.9	3745.9	3708.1
52.5°	15858.1	7410.9	4183.1	4193.9	4210.1	4042.8	3767.5	3713.5	3611.0	3535.4	3513.8
55°	14827.1	6460.9	3913.2	3956.4	3999.6	3681.1	3594.8	3459.8	3378.9	3270.9	3276.3
57.5°	13062.1	5203.3	3535.4	3605.6	3697.3	3346.5	3281.7	3114.4	2995.7	2909.3	2898.5
60°	8754.9	3702.7	2968.7	2995.7	3200.8	3060.4	3055.0	2887.7	2725.8	2650.2	2607.0
62.5°	5165.5	2828.3	2563.8	2536.9	2531.5	2612.4	2747.4	2688.0	2477.5	2331.8	2374.9
65°	2704.2	2445.1	2385.7	2294.0	2240.0	2218.4	2321.0	2347.9	2207.6	2051.1	2040.3
67.5°	2272.4	2272.4	2223.8	2191.4	2115.9	2024.1	1959.3	1873.0	1851.4	1808.2	1754.2
70°	2067.3	2121.2	2105.1	2029.5	1964.7	1862.2	1694.8	1554.5	1419.6	1371.0	1403.4
72.5°	1802.8	1856.8	1856.8	1819.0	1732.6	1576.1	1414.2	1252.2	1138.9	1052.5	1041.7
75°	1387.2	1414.2	1478.9	1435.8	1322.4	1225.3	1057.9	890.6	782.6	701.7	685.5
77.5°	885.2	928.4	928.4	923.0	842.0	750.3	642.3	523.6	442.6	383.2	367.0
80°	588.3	615.3	636.9	615.3	561.3	491.2	410.2	329.3	269.9	221.3	210.5
82.5°	431.8	464.2	480.4	458.8	404.8	350.8	291.5	232.1	172.7	134.9	124.1
85°	167.3	172.7	194.3	232.1	226.7	221.3	178.1	129.5	97.2	70.2	64.8
87.5°	43.2	37.8	43.2	43.2	37.8	32.4	32.4	32.4	32.4	16.2	21.6
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)