

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: P459073

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35770 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

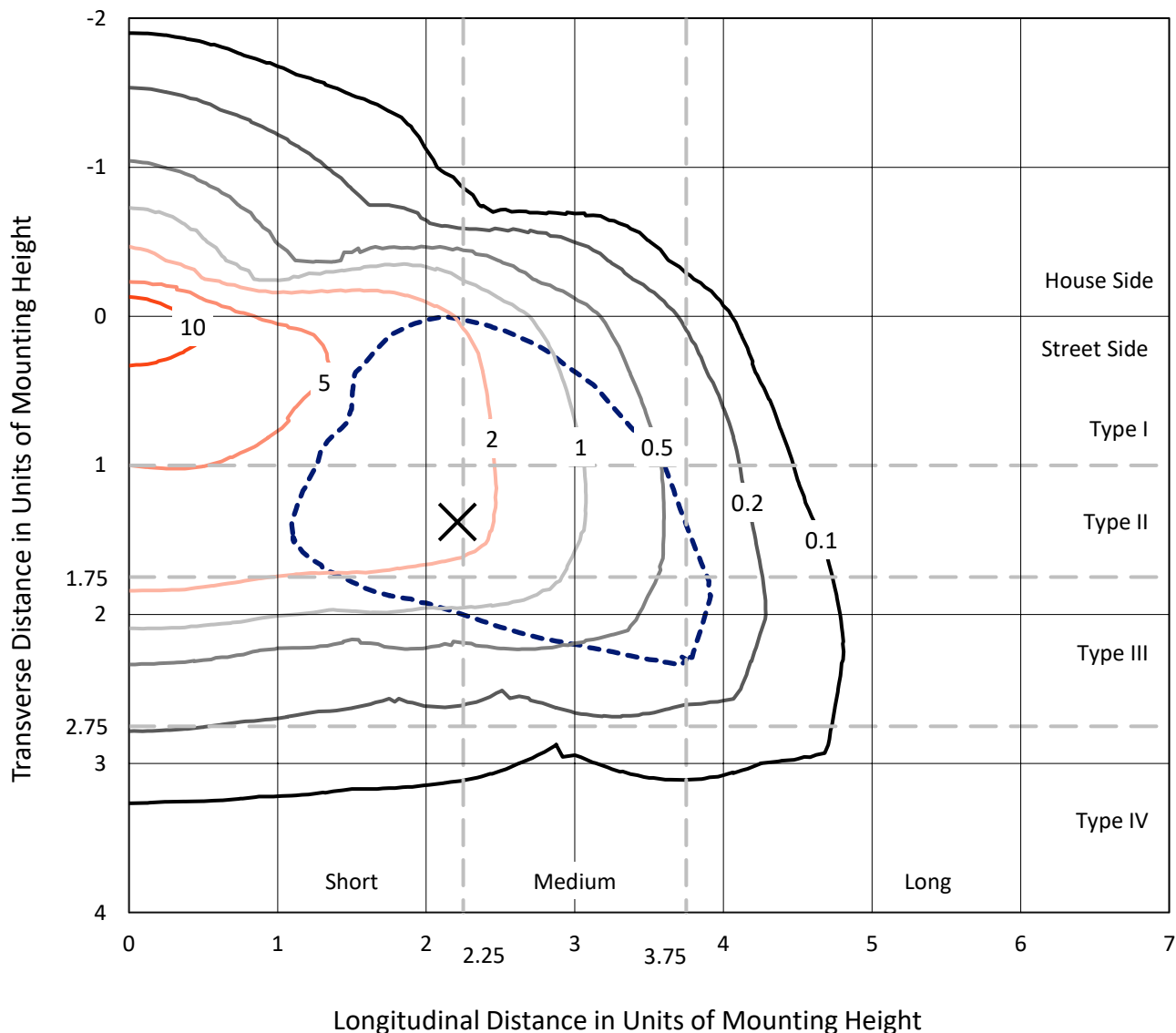
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

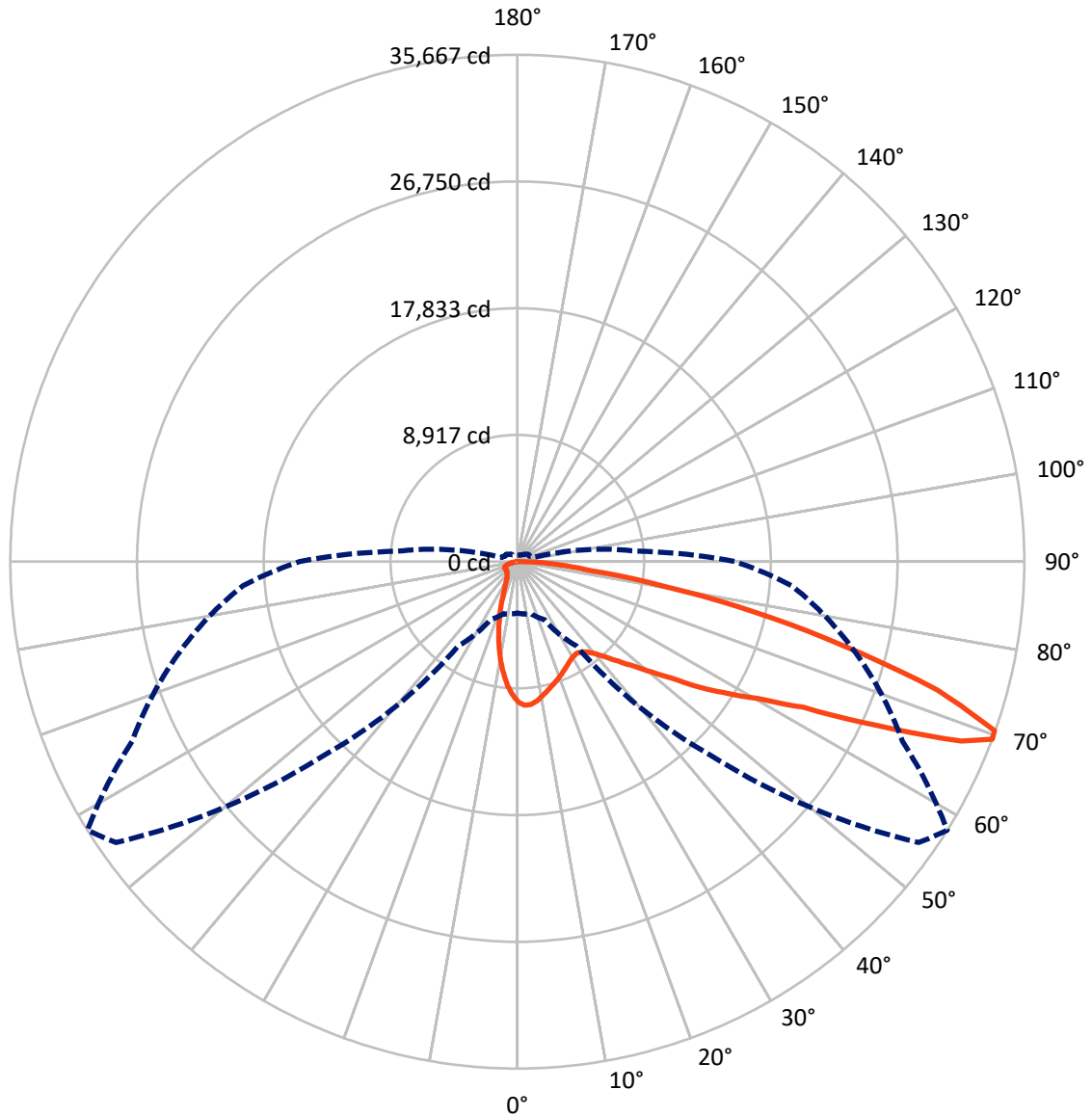
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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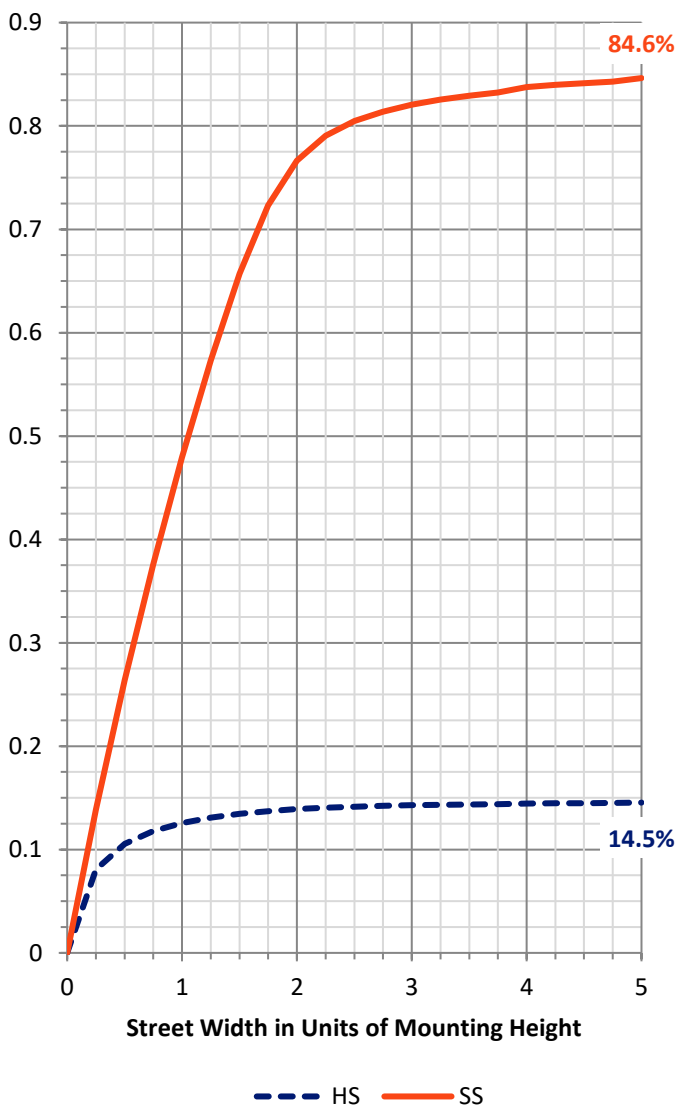
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5242.1	0.0	5242.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	30527.9	0.0	30527.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	35770.0	0.0	35770.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	839.4	2.3
10°-20°	1843.3	5.2
20°-30°	2381.6	6.7
30°-40°	3093.2	8.6
40°-50°	4497.0	12.6
50°-60°	7175.8	20.1
60°-70°	9586.0	26.8
70°-80°	5525.9	15.4
80°-90°	827.7	2.3
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°	35770.0	100.0
0°-180°	35770.0	100.0

Coefficient of Utilization



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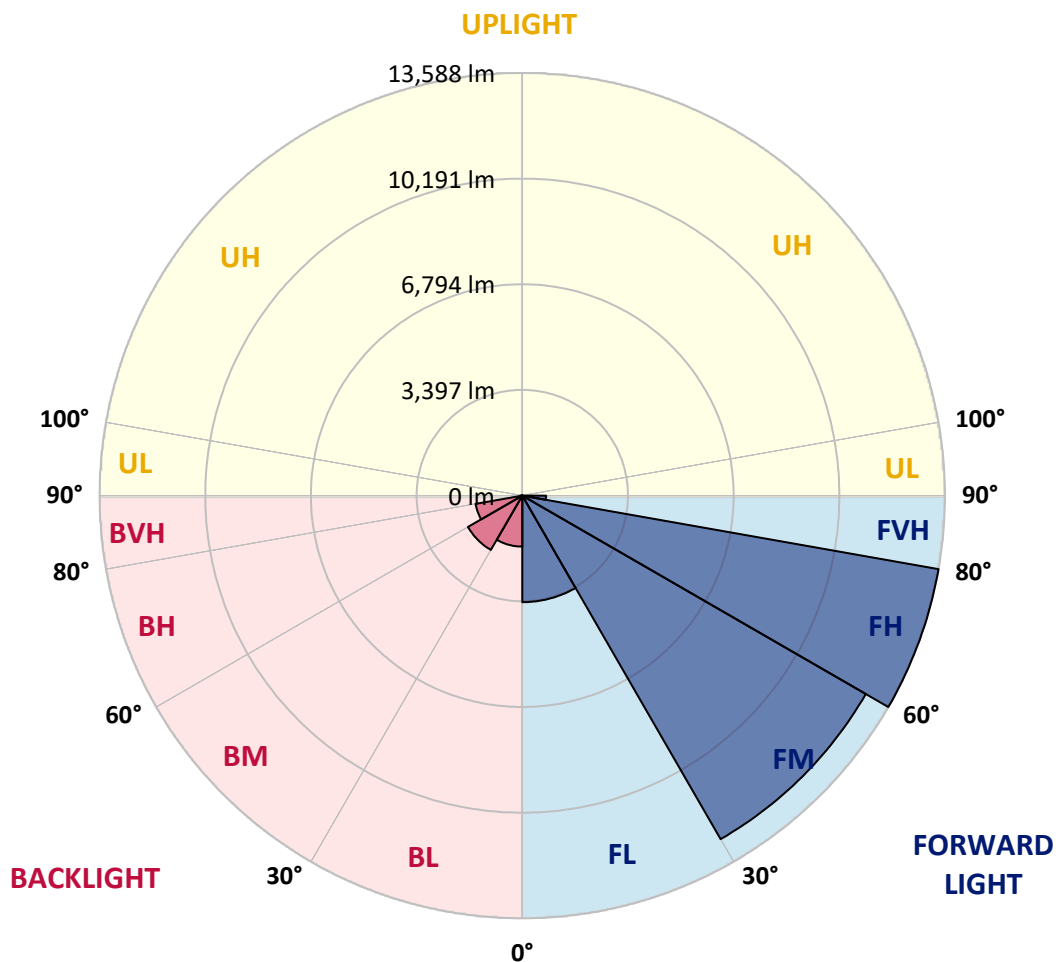
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3425.9	9.6			
FM	(30°-60°)	12750.1	35.6			
FH	(60°-80°)	13587.6	38.0			G5
FVH	(80°-90°)	764.3	2.1			G5
BL	(0°-30°)	1638.5	4.6	B3/2500		
BM	(30°-60°)	2015.9	5.6	B2/2500		
BH	(60°-80°)	1524.3	4.3	B3/2500		G3/2500
BVH	(80°-90°)	63.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9884.7	9884.7	9884.7	9884.7	9884.7	9884.7	9884.7	9884.7	9884.7	9884.7	9884.7
2.5°	10251.8	10279.7	10271.7	10261.8	10245.8	10201.9	10130.1	10118.1	10072.3	9974.5	9852.8
5°	10094.2	10118.1	10120.1	10134.1	10154.0	10146.1	10094.2	10088.2	10020.4	9888.7	9685.2
7.5°	9553.6	9585.5	9655.3	9733.1	9802.9	9868.8	9884.7	9894.7	9852.8	9701.2	9429.9
10°	8945.1	8977.1	9009.0	9124.7	9296.2	9459.8	9595.5	9613.4	9623.4	9483.8	9152.6
12.5°	8270.9	8336.7	8404.5	8576.1	8805.5	9062.8	9302.2	9340.1	9408.0	9302.2	8913.2
15°	7698.3	7766.1	7863.9	8017.5	8294.8	8665.8	9003.0	9064.8	9198.5	9144.6	8689.8
17.5°	7301.3	7325.3	7393.1	7568.7	7867.9	8258.9	8709.7	8833.4	9046.9	9032.9	8498.3
20°	6988.1	7018.1	7060.0	7167.7	7478.9	7891.8	8436.4	8596.0	8885.3	8933.2	8308.8
22.5°	6856.5	6878.4	6872.4	6930.3	7141.7	7556.7	8159.1	8348.7	8741.7	8865.3	8133.2
25°	6864.5	6884.4	6854.5	6840.5	6966.2	7261.4	7869.9	8111.3	8626.0	8819.5	7973.6
27.5°	6998.1	7012.1	6956.2	6900.4	6910.3	7077.9	7630.5	7897.8	8528.2	8839.4	7840.0
30°	7177.7	7203.6	7167.7	7099.9	7026.0	7034.0	7476.9	7740.2	8482.3	8909.2	7776.1
32.5°	7409.1	7433.0	7417.0	7363.2	7267.4	7161.7	7439.0	7682.4	8486.3	9050.9	7762.2
35°	7652.4	7700.3	7726.3	7722.3	7644.5	7460.9	7588.6	7790.1	8582.1	9288.3	7844.0
37.5°	7927.7	7967.6	8079.3	8151.2	8079.3	7865.9	7925.7	8065.4	8793.5	9631.4	8023.5
40°	8195.1	8254.9	8418.5	8641.9	8614.0	8426.5	8440.4	8532.2	9166.6	10142.1	8374.6
42.5°	8474.3	8546.2	8831.4	9162.6	9228.4	9082.8	9120.7	9202.5	9697.2	10850.3	8977.1
45°	8833.4	8919.2	9270.3	9683.2	9942.6	9852.8	9960.5	10000.4	10407.4	11771.9	9771.0
47.5°	9296.2	9396.0	9828.9	10343.6	10710.6	10792.4	10979.9	10956.0	11287.1	12863.1	10800.4
50°	10076.2	10132.1	10541.1	11065.7	11570.4	11939.5	12143.0	12180.9	12378.4	13924.4	11951.5
52.5°	11003.9	11053.7	11349.0	11807.8	12440.2	13222.2	13724.9	13601.2	13649.1	15217.1	13298.0
55°	12047.2	12131.0	12318.5	12623.7	13443.6	14594.7	15604.1	15634.0	15103.4	16453.9	14588.7
57.5°	12855.1	12996.8	13318.0	13752.8	14792.2	16120.8	17477.3	17497.3	16819.0	17774.6	16013.1
60°	12448.2	12615.8	13349.9	14409.2	16561.7	18784.0	19715.6	19601.9	18488.7	19278.7	17750.6
62.5°	10692.7	10722.6	11789.9	13445.6	17106.3	22346.9	23047.1	22566.3	20717.0	21185.8	19516.1
65°	6920.3	7115.8	7961.6	10281.7	15316.8	24323.8	28884.2	27773.0	23841.1	23350.3	20994.3
67.5°	4368.8	4319.0	4670.1	5871.0	10535.1	22582.3	33865.4	33689.9	27926.6	24716.8	20641.2
69°	3622.7	3678.6	3798.3	4500.5	7249.5	19280.7	34453.9	35666.8	29907.6	24609.1	19358.5
70°	3285.6	3311.5	3437.2	3989.8	5593.7	16148.7	33488.4	35613.0	30685.6	24158.2	18428.9
72.5°	2607.3	2605.3	2820.8	3319.5	4181.3	9218.4	27497.7	30919.0	29815.8	22059.6	15227.1
75°	1980.9	2012.9	2250.2	2808.8	3852.2	5037.1	19189.0	23811.1	23813.1	17423.5	9501.7
77.5°	1428.3	1448.3	1725.6	2358.0	3628.7	4083.6	12781.3	17078.3	16055.0	7983.6	2986.4
80°	935.6	947.6	1159.0	1867.2	3271.6	3852.2	7578.6	10453.3	7572.6	2118.6	987.5
82.5°	512.7	572.5	708.2	1208.9	2625.3	3558.9	4606.2	5290.5	2840.7	943.6	514.7
85°	257.3	273.3	399.0	706.2	1715.6	2944.5	3207.8	3034.2	1466.3	468.8	267.3
87.5°	75.8	95.8	165.6	273.3	696.2	1534.1	1785.4	1601.9	564.6	169.6	55.9
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°	9884.7	9884.7	9884.7	9884.7	9884.7	9884.7	9884.7	9884.7	9884.7	9884.7	9884.7
2.5°	9802.9	9767.0	9607.4	9463.8	9332.1	9192.5	9074.8	8971.1	8981.0	8983.0	8877.3
5°	9579.5	9497.7	9194.5	8911.2	8671.8	8368.6	8109.3	7941.7	7857.9	7746.2	7786.1
7.5°	9276.3	9118.7	8697.8	8227.0	7786.1	7393.1	6966.2	6672.9	6485.4	6303.9	6327.8
10°	8963.1	8709.7	8097.3	7474.9	6904.4	6276.0	5731.4	5264.5	4917.4	4787.8	4702.0
12.5°	8641.9	8308.8	7530.8	6702.9	5914.9	5162.8	4390.8	3890.1	3507.0	3303.6	3329.5
15°	8348.7	7943.7	6940.3	5930.8	4907.5	4011.7	3241.7	2764.9	2497.6	2441.8	2473.7
17.5°	8077.4	7546.7	6387.7	5180.8	3985.8	3008.3	2435.8	2166.5	2058.7	2028.8	2026.8
20°	7798.1	7209.6	5767.3	4378.8	3106.1	2332.0	1998.9	1873.2	1853.3	1865.2	1867.2
22.5°	7514.8	6792.6	5128.9	3582.8	2473.7	1907.1	1747.5	1713.6	1729.6	1757.5	1761.5
25°	7253.5	6425.6	4514.5	2884.6	1975.0	1675.7	1597.9	1597.9	1633.8	1675.7	1677.7
27.5°	7038.0	6070.5	3902.0	2290.1	1653.8	1508.1	1482.2	1496.2	1546.0	1578.0	1580.0
30°	6860.5	5739.3	3323.5	1835.3	1454.3	1374.5	1368.5	1392.4	1428.3	1458.3	1460.3
32.5°	6726.8	5448.1	2782.9	1542.1	1316.6	1272.7	1270.8	1288.7	1308.7	1316.6	1324.6
35°	6674.9	5206.7	2288.2	1356.5	1224.9	1196.9	1196.9	1194.9	1202.9	1206.9	1210.9
37.5°	6716.8	5021.2	1905.1	1236.8	1157.0	1137.1	1125.1	1113.2	1109.2	1109.2	1111.2
40°	6894.4	4923.4	1619.9	1159.0	1109.2	1079.2	1057.3	1043.3	1029.4	1033.4	1037.3
42.5°	7271.4	4941.4	1426.4	1107.2	1067.3	1025.4	993.5	977.5	967.5	979.5	977.5
45°	7871.9	5120.9	1302.7	1071.3	1025.4	971.5	941.6	925.6	925.6	943.6	949.6
47.5°	8711.7	5464.0	1236.8	1043.3	993.5	929.6	899.7	887.7	891.7	921.6	923.6
50°	9737.1	6060.5	1224.9	1029.4	977.5	899.7	865.8	853.8	863.8	895.7	899.7
52.5°	10868.2	6828.5	1282.7	1031.4	963.5	881.7	837.9	819.9	829.9	855.8	863.8
55°	12208.8	7790.1	1432.3	1039.3	943.6	871.8	817.9	778.0	790.0	807.9	809.9
57.5°	13577.3	9003.0	1695.7	1041.3	927.6	853.8	784.0	732.1	732.1	744.1	750.1
60°	15249.0	10323.6	2042.8	1043.3	929.6	827.9	738.1	680.3	672.3	678.3	680.3
62.5°	16908.8	11428.8	2100.6	1037.3	949.6	802.0	688.2	628.4	614.4	612.4	608.4
65°	17640.9	11223.3	1721.6	1009.4	971.5	786.0	648.3	578.5	554.6	546.6	546.6
67.5°	16448.0	9493.7	1294.7	971.5	957.6	770.0	610.4	536.6	508.7	492.7	492.7
69°	15326.8	8444.4	1163.0	945.6	921.6	744.1	586.5	514.7	480.8	462.8	456.8
70°	14461.0	7722.3	1107.2	923.6	887.7	714.2	568.5	498.7	460.8	440.9	436.9
72.5°	11540.5	6058.5	969.5	839.9	756.1	600.5	504.7	448.9	412.9	391.0	385.0
75°	6651.0	3283.6	803.9	730.1	608.4	466.8	426.9	391.0	363.1	343.1	337.1
77.5°	2046.8	1268.8	582.5	576.5	446.9	361.1	341.1	327.2	307.2	285.3	281.3
80°	861.8	646.3	395.0	389.0	297.2	251.4	245.4	243.4	235.4	217.4	211.5
82.5°	472.8	365.1	275.3	239.4	179.5	145.6	151.6	153.6	147.6	129.7	117.7
85°	231.4	199.5	133.7	107.7	81.8	51.9	49.9	59.8	55.9	39.9	43.9
87.5°	45.9	55.9	35.9	16.0	8.0	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)