

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: P953076

Luminaire Tested: **GALN-SB6D-727-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953076
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB6D-727-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58298 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 440.1
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

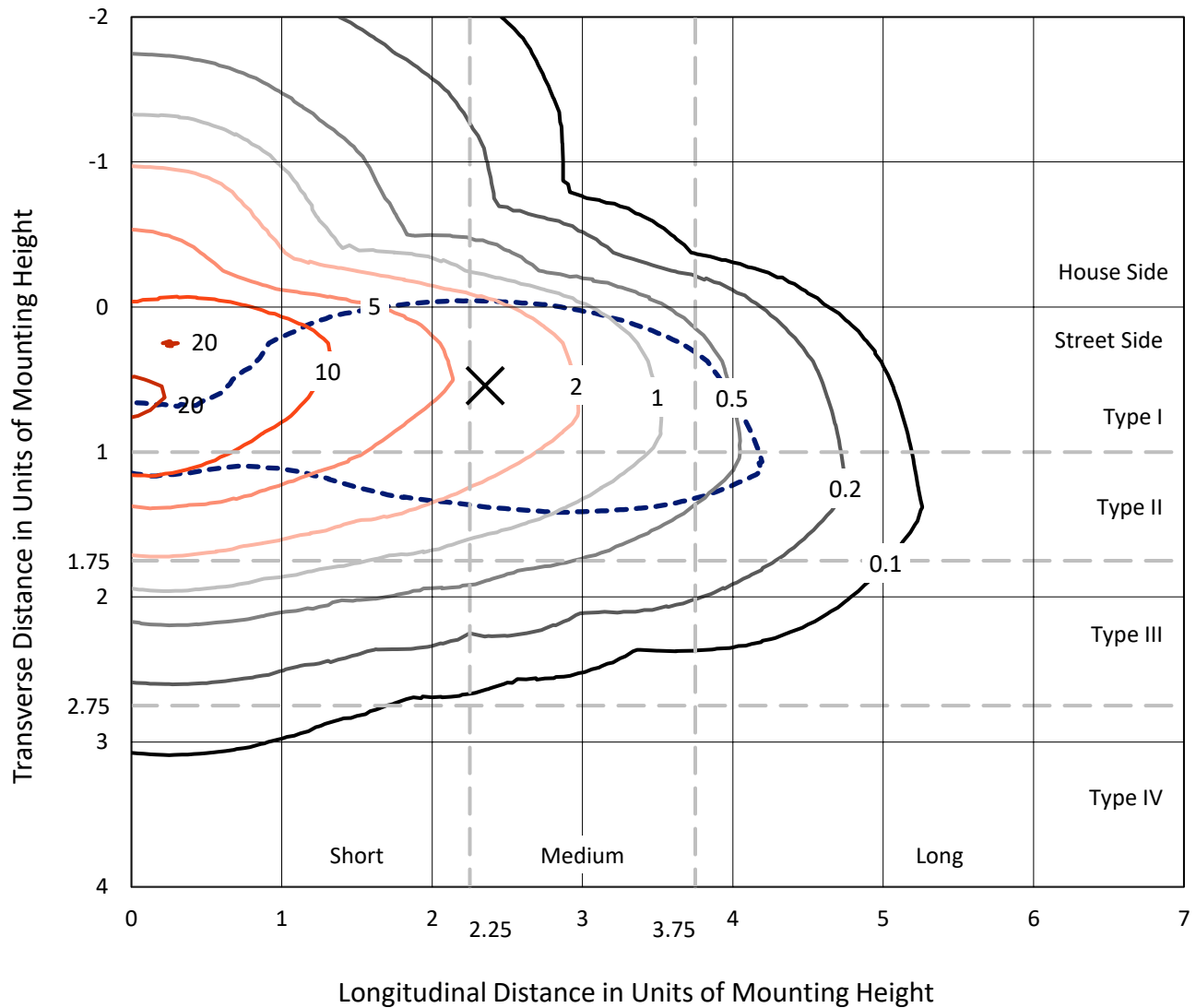


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Iso-Footcandle Lines of Horizontal Illumination

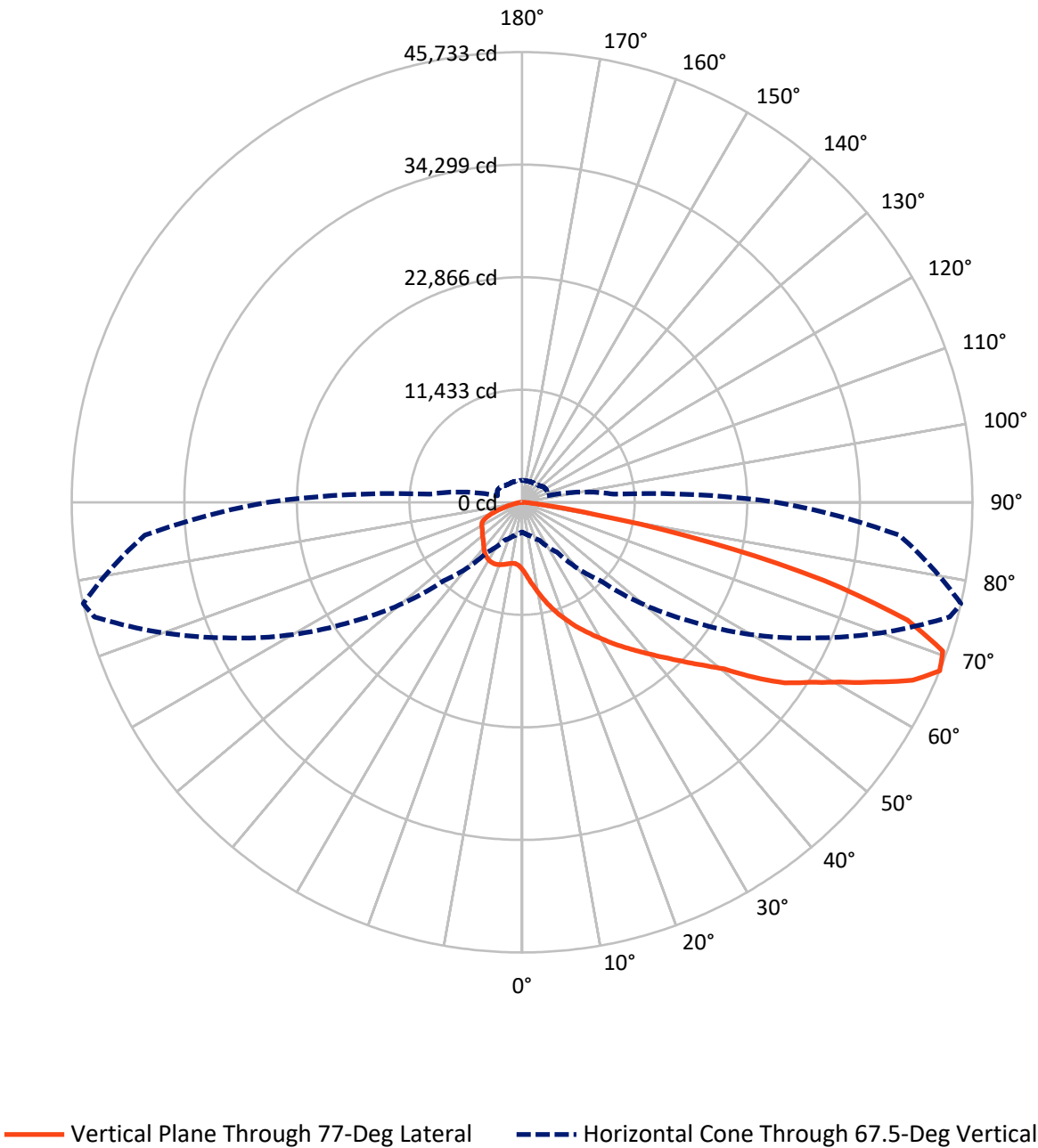
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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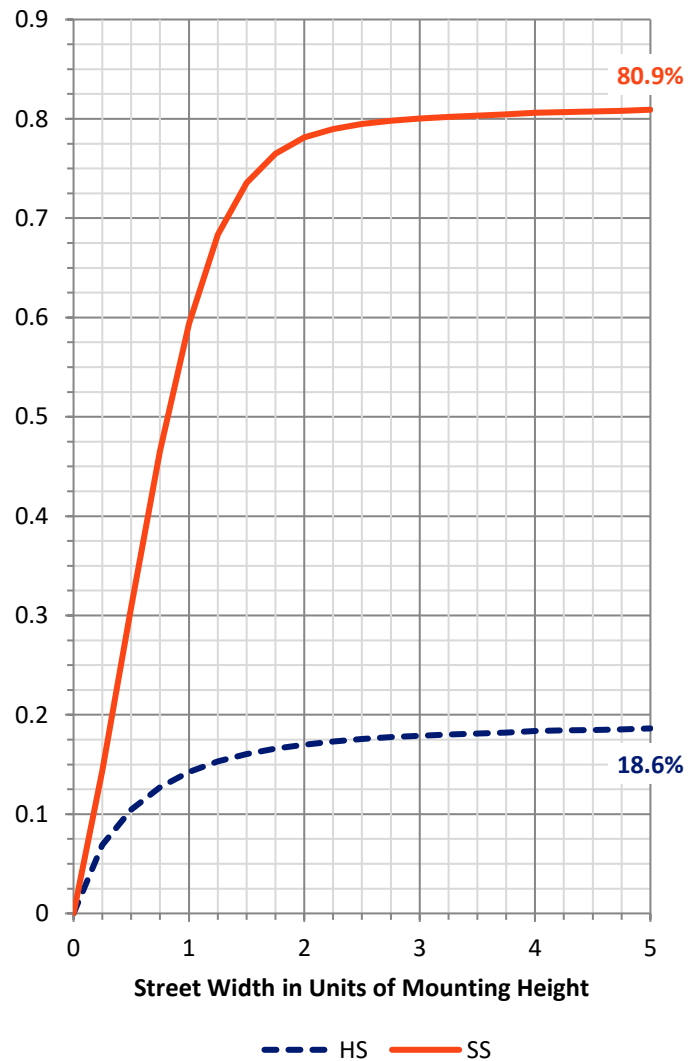
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11027.6	0.0	11027.6
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	47270.4	0.0	47270.4
	% Fixture	81.1	0.0	81.1
Total	Lumens	58298.0	0.0	58298.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	733.2	1.3
10°-20°	2634.0	4.5
20°-30°	4973.2	8.5
30°-40°	8011.8	13.7
40°-50°	10958.7	18.8
50°-60°	12361.5	21.2
60°-70°	11537.9	19.8
70°-80°	6324.7	10.8
80°-90°	762.9	1.3
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°	58298.0	100.0
0°-180°	58298.0	100.0

Coefficient of Utilization



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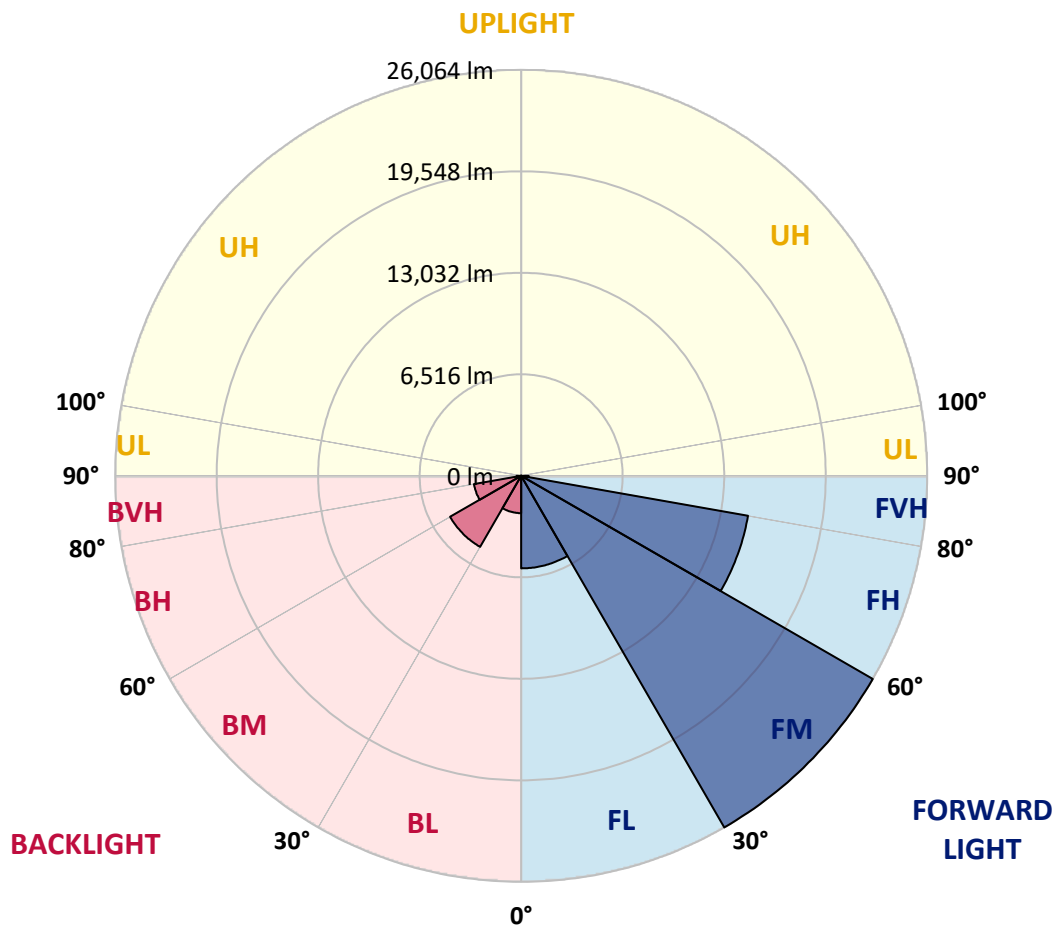
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5942.8	10.2			
FM	(30°-60°)	26064.4	44.7			
FH	(60°-80°)	14786.1	25.4			G5
FVH	(80°-90°)	477.1	0.8			G3/500
BL	(0°-30°)	2397.7	4.1	B3/2500		
BM	(30°-60°)	5267.6	9.0	B4/8500		
BH	(60°-80°)	3076.5	5.3	B4/5000		G4/5000
BVH	(80°-90°)	285.8	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	6840.2	6840.2	6840.2	6840.2	6840.2	6840.2	6840.2	6840.2	6840.2	6840.2	6840.2
2.5°	8564.5	8624.7	8549.5	8549.5	8296.7	8164.3	7911.5	7718.9	7372.8	7312.6	7083.9
5°	10123.3	10198.6	10093.2	10048.1	9750.2	9476.3	9052.0	8633.7	8016.8	7953.6	7414.9
7.5°	11330.1	11426.4	11333.1	11284.9	11020.1	10713.2	10216.6	9632.8	8763.1	8639.7	7860.3
10°	12314.1	12329.2	12299.1	12317.1	12109.5	11856.7	11348.1	10668.0	9581.6	9413.1	8399.0
12.5°	12870.8	12940.0	13000.2	13108.6	13072.5	12916.0	12458.6	11646.0	10448.3	10231.7	8985.8
15°	13132.6	13253.0	13388.4	13638.2	13839.8	13878.9	13529.9	12696.3	11330.1	11068.3	9578.6
17.5°	13225.9	13340.3	13553.9	13915.1	14348.4	14640.3	14483.8	13716.4	12202.8	11901.8	10201.6
20°	13698.4	13731.5	13860.9	14204.0	14673.4	15157.9	15275.3	14697.5	13066.4	12726.4	10845.6
22.5°	14709.5	14643.3	14679.4	14835.9	15173.0	15642.4	15910.2	15564.2	13954.2	13563.0	11495.6
25°	16379.7	16187.1	15994.5	15813.9	15985.5	16250.3	16554.2	16430.8	14884.1	14387.5	12151.6
27.5°	18489.2	18254.5	17830.2	17237.3	17029.7	17123.0	17258.4	17234.3	15744.7	15242.2	12828.7
30°	20565.6	20291.8	19786.2	18928.6	18380.9	18134.1	18031.8	17962.6	16680.6	16145.0	13511.8
32.5°	22223.8	22007.1	21510.6	20550.6	19756.1	19334.8	18994.8	18748.0	17658.6	17123.0	14234.0
35°	23674.3	23472.6	22903.9	21856.6	20993.0	20544.6	20099.2	19572.6	18675.8	18134.1	15010.4
37.5°	24998.4	24796.7	24017.3	22927.9	22058.3	21748.3	21351.1	20457.3	19695.9	19184.4	15832.0
40°	25834.9	25789.8	25061.6	23827.7	22924.9	22771.5	22639.1	21483.5	20827.4	20352.0	16734.8
42.5°	26048.6	26147.9	25570.1	24556.0	23695.3	23571.9	23881.9	22645.1	22097.4	21643.0	17758.0
45°	25534.0	25819.9	25440.7	24751.6	24243.0	24176.8	24983.3	23915.0	23502.7	23087.4	18991.8
47.5°	24231.0	24715.5	24559.0	24462.7	24390.5	24676.4	25952.3	25263.2	25094.7	24733.5	20400.1
50°	21600.8	22518.7	22792.5	23400.4	24098.6	25064.6	26834.0	26734.7	26954.4	26590.3	22115.4
52.5°	17053.8	18317.7	19906.6	21429.3	23201.8	24935.2	27803.0	28847.3	29774.1	29575.5	24841.9
55°	14077.6	14646.3	15868.1	18660.7	21462.4	24390.5	28239.4	30553.5	32572.8	32395.2	26909.3
57.5°	11790.5	12299.1	13051.4	15383.6	18832.3	23153.6	28510.2	31594.8	34489.7	34471.7	28949.6
60°	9337.9	9876.6	10646.9	12299.1	15759.8	21017.0	28450.0	32780.4	36936.3	37086.8	31438.3
62.5°	6569.3	7162.2	8016.8	9557.6	12621.1	18248.5	27222.2	33638.1	39816.2	40225.5	34432.5
65°	4318.4	4709.6	5353.6	6683.7	9404.1	14688.5	24878.0	33749.4	42897.7	43589.9	37243.2
67.5°	3027.4	3177.8	3557.0	4279.2	6199.2	11263.9	21143.4	32596.9	44953.1	45732.5	38462.0
70°	2362.3	2437.5	2630.1	2919.0	3894.0	7574.4	16202.1	29599.6	44513.7	45326.3	37189.1
72.5°	2040.3	2112.5	2184.8	2220.9	2612.1	4676.5	10975.0	24748.6	40375.9	40926.6	32335.1
75°	1850.7	1868.8	1929.0	1916.9	1992.2	3033.4	6334.6	18031.8	31856.6	31667.0	23869.9
77.5°	1555.8	1579.9	1679.2	1664.1	1769.5	2073.4	3289.2	11637.0	20652.9	19364.9	13286.1
80°	1318.1	1330.1	1438.5	1420.4	1537.8	1501.6	1679.2	5931.4	8760.1	7421.0	3830.9
82.5°	457.4	565.8	1098.4	1131.5	1173.6	908.8	969.0	2419.5	2675.3	2049.3	803.5
85°	222.7	237.7	559.7	794.5	791.4	457.4	472.5	863.7	842.6	662.0	267.8
87.5°	36.1	45.1	66.2	310.0	246.8	120.4	162.5	168.5	174.5	150.5	60.2
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°	6840.2	6840.2	6840.2	6840.2	6840.2	6840.2	6840.2	6840.2	6840.2	6840.2	6840.2
2.5°	6915.4	6764.9	6449.0	6157.1	5928.3	5708.7	5585.3	5480.0	5419.8	5407.7	5407.7
5°	7102.0	6792.0	6217.2	5732.7	5416.8	5182.0	5058.7	4980.4	4941.3	4917.2	4914.2
7.5°	7369.8	6915.4	6096.9	5546.2	5215.1	5046.6	4983.4	4971.4	4968.4	4971.4	4980.4
10°	7740.0	7117.0	6084.8	5501.0	5224.2	5130.9	5127.9	5130.9	5142.9	5145.9	5148.9
12.5°	8140.2	7324.7	6133.0	5540.1	5338.5	5287.4	5278.3	5275.3	5284.4	5290.4	5293.4
15°	8576.5	7598.5	6214.2	5624.4	5464.9	5410.7	5401.7	5383.7	5380.7	5377.6	5374.6
17.5°	9024.9	7869.4	6304.5	5714.7	5546.2	5470.9	5437.8	5395.7	5362.6	5353.6	5362.6
20°	9479.3	8137.2	6367.7	5759.8	5552.2	5446.9	5380.7	5308.4	5251.2	5218.1	5230.2
22.5°	9963.8	8417.0	6406.8	5747.8	5498.0	5353.6	5233.2	5148.9	5061.7	5004.5	5007.5
25°	10436.3	8660.8	6403.8	5684.6	5392.7	5209.1	5055.6	4947.3	4826.9	4766.8	4766.8
27.5°	10890.7	8880.5	6328.6	5573.2	5242.2	5037.6	4854.0	4724.6	4607.3	4550.1	4547.1
30°	11360.2	9064.0	6211.2	5410.7	5064.7	4839.0	4637.4	4526.0	4420.7	4366.5	4363.5
32.5°	11826.6	9232.6	6045.7	5209.1	4860.0	4643.4	4444.8	4342.4	4279.2	4279.2	4282.3
35°	12320.1	9349.9	5826.0	4974.4	4643.4	4435.7	4279.2	4219.1	4213.0	4176.9	4167.9
37.5°	12840.7	9425.2	5558.2	4733.6	4429.7	4234.1	4186.0	4113.7	4053.5	3975.3	3963.3
40°	13388.4	9500.4	5236.2	4483.9	4204.0	4095.7	4074.6	3978.3	3806.8	3614.2	3587.1
42.5°	14053.5	9551.6	4902.2	4234.1	3966.3	3930.2	3960.3	3794.7	3520.9	3376.4	3379.5
45°	14823.9	9635.8	4595.2	3987.3	3722.5	3722.5	3848.9	3632.2	3406.5	3316.3	3331.3
47.5°	15823.0	9831.4	4309.3	3716.5	3496.8	3557.0	3602.1	3436.6	3310.2	3198.9	3195.9
50°	17267.4	10300.9	4014.4	3442.7	3325.3	3445.7	3382.5	3286.2	3138.7	3048.4	3039.4
52.5°	19061.0	10577.7	3752.6	3195.9	3177.8	3298.2	3207.9	3117.6	3006.3	2885.9	2861.9
55°	20282.8	10628.9	3532.9	3015.3	3078.5	3066.5	3033.4	2952.1	2891.9	2732.5	2735.5
57.5°	21649.0	10731.2	3352.4	2907.0	3015.3	2882.9	2870.9	2801.7	2723.4	2615.1	2579.0
60°	23283.0	10890.7	3195.9	2864.9	2961.2	2762.5	2702.4	2675.3	2597.0	2542.9	2557.9
62.5°	25064.6	11035.1	3036.4	2870.9	2898.0	2645.2	2554.9	2545.9	2497.7	2479.7	2479.7
65°	26280.3	10640.9	2837.8	2864.9	2798.7	2524.8	2410.5	2407.4	2368.3	2362.3	2359.3
67.5°	25856.0	9392.1	2570.0	2780.6	2696.3	2404.4	2278.0	2266.0	2214.9	2217.9	2217.9
70°	23731.4	7610.6	2199.8	2573.0	2570.0	2296.1	2139.6	2100.5	2031.3	2043.3	2055.4
72.5°	19747.1	5639.5	1703.3	2226.9	2368.3	2196.8	1980.1	1916.9	1829.7	1841.7	1838.7
75°	14261.1	3833.9	1239.8	1694.2	2061.4	2079.4	1823.6	1715.3	1610.0	1628.0	1634.1
77.5°	7297.6	2172.7	911.8	1167.6	1619.0	1889.8	1682.2	1537.8	1513.7	1682.2	1658.1
80°	2380.4	1089.4	632.0	818.5	1062.3	1546.8	1474.6	1309.1	1303.0	1342.2	1152.6
82.5°	710.2	460.4	406.3	538.7	586.8	1185.7	1272.9	990.1	851.6	896.8	926.9
85°	243.8	222.7	231.7	267.8	279.9	695.2	890.8	656.0	619.9	683.1	674.1
87.5°	57.2	78.2	66.2	60.2	60.2	168.5	346.1	273.8	379.2	252.8	243.8
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)