

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: P953436

Luminaire Tested: **GALN-SB7A-727-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953436
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24634 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 199.1
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



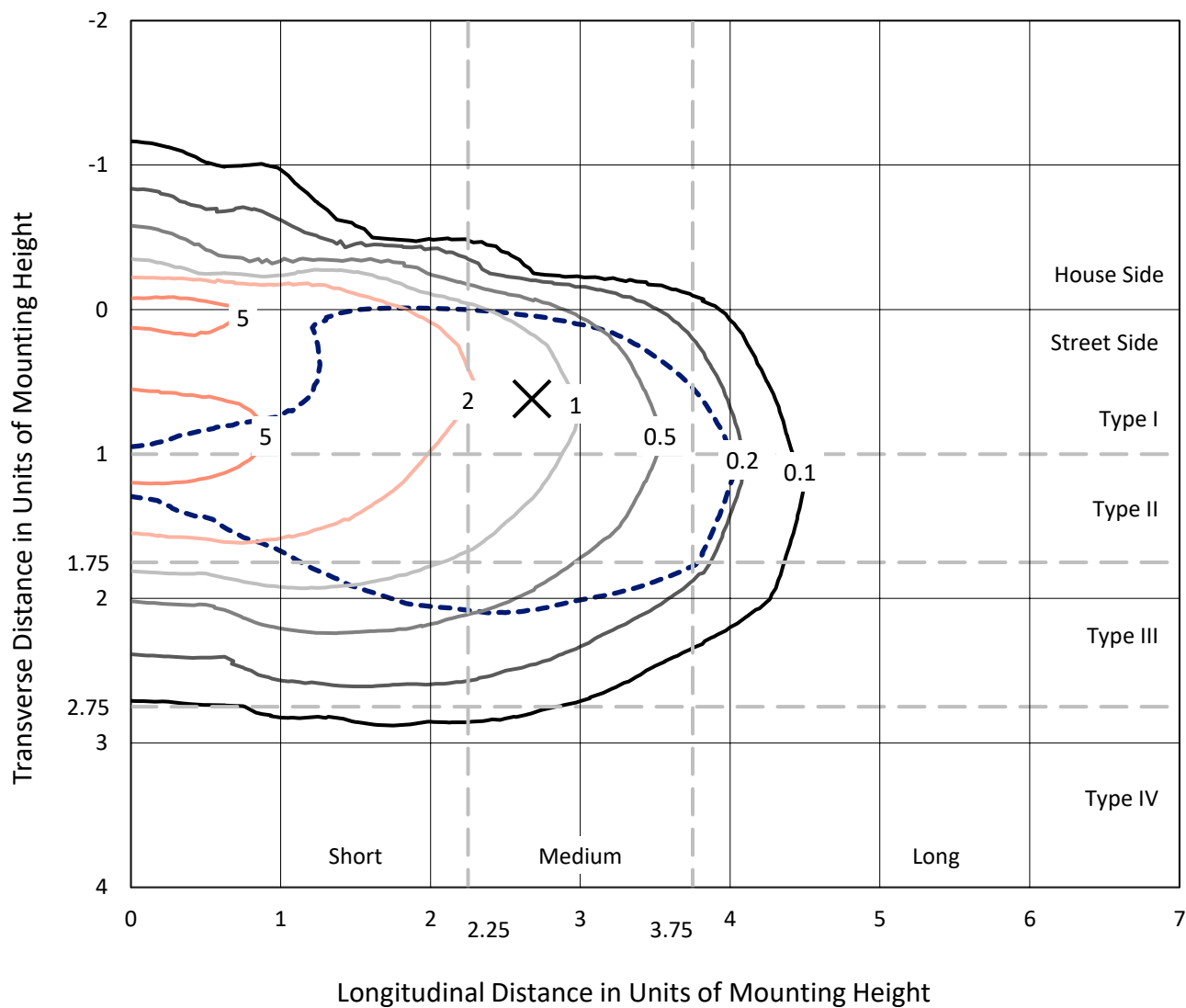
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



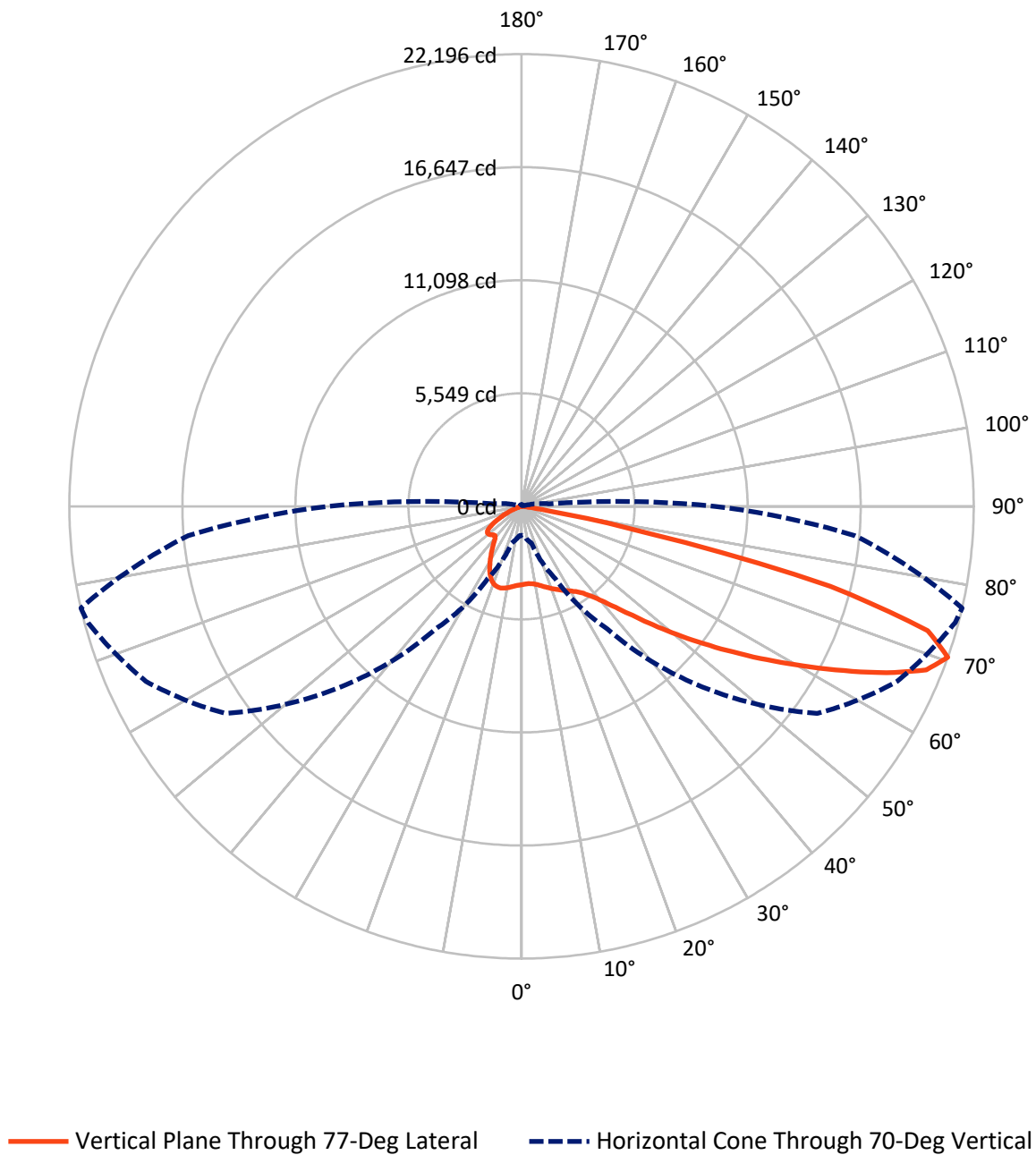
Based on 25 foot mounting height. Maximum calculated value = 7.2 fc

Type III - Medium - N/A

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Luminous Intensity Polar Plot



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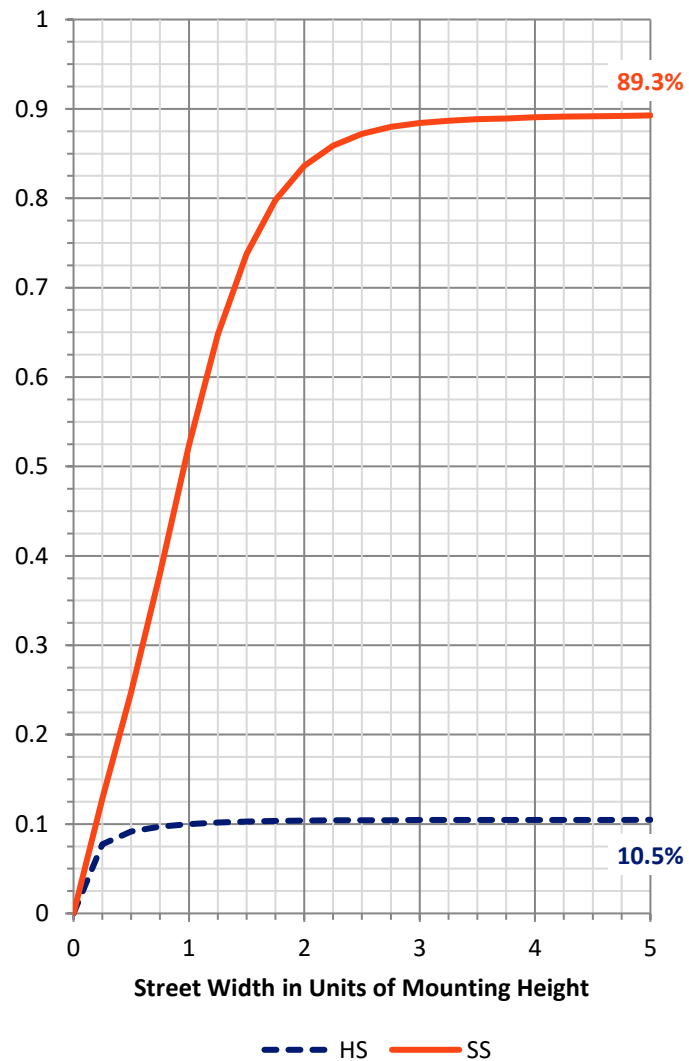
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2596.8	0.0	2596.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	22037.2	0.0	22037.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	24634.0	0.0	24634.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.2	1.3
10°-20°	786.1	3.2
20°-30°	1215.9	4.9
30°-40°	2206.4	9.0
40°-50°	4164.8	16.9
50°-60°	6017.8	24.4
60°-70°	6405.8	26.0
70°-80°	3394.6	13.8
80°-90°	111.5	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°	24634.0	100.0
0°-180°	24634.0	100.0

Coefficient of Utilization



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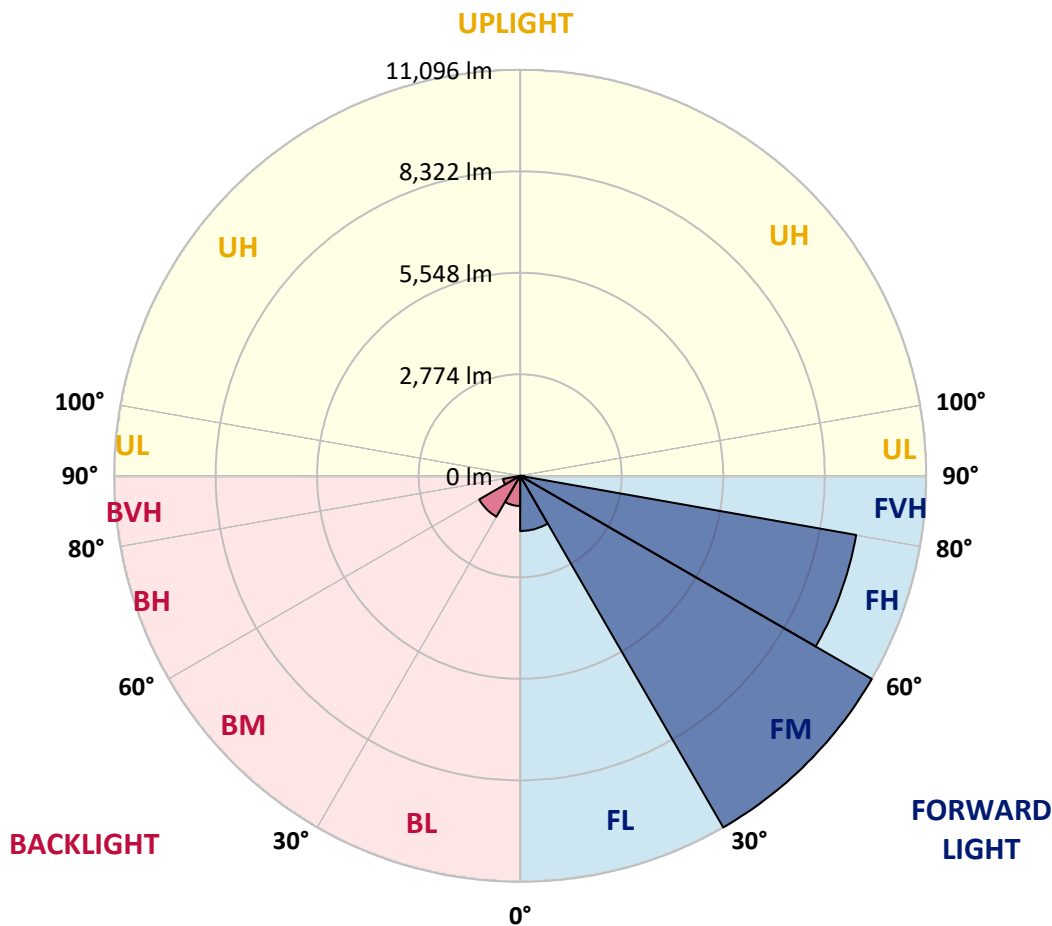
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1508.2	6.1			
FM	(30°-60°)	11096.3	45.0			
FH	(60°-80°)	9324.3	37.9			G4/12000
FVH	(80°-90°)	108.5	0.4			G2/225
BL	(0°-30°)	825.0	3.3	B2/1000		
BM	(30°-60°)	1292.7	5.2	B2/2500		
BH	(60°-80°)	476.1	1.9	B1/500		G1/500
BVH	(80°-90°)	3.0	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-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3842.5	3842.5	3842.5	3842.5	3842.5	3842.5	3842.5	3842.5	3842.5	3842.5	3842.5
2.5°	3607.6	3640.2	3635.6	3657.3	3665.1	3696.2	3727.3	3769.3	3816.0	3814.5	3845.6
5°	3403.8	3436.4	3444.2	3473.8	3511.1	3559.3	3623.1	3707.1	3794.2	3808.2	3870.5
7.5°	3162.6	3196.9	3217.1	3276.2	3344.7	3444.2	3548.4	3671.3	3816.0	3836.2	3956.0
10°	2921.5	2952.6	2979.1	3063.1	3172.0	3319.8	3489.3	3666.7	3861.1	3890.7	4060.3
12.5°	2772.2	2801.7	2831.3	2904.4	3039.7	3220.2	3450.4	3688.4	3935.8	3977.8	4201.8
15°	2719.3	2745.7	2769.1	2834.4	2960.4	3165.8	3442.7	3733.6	4030.7	4086.7	4372.9
17.5°	2727.1	2741.1	2756.6	2806.4	2929.3	3140.9	3456.7	3811.3	4142.7	4192.5	4544.1
20°	2772.2	2779.9	2781.5	2815.7	2924.6	3137.7	3484.7	3886.0	4248.5	4315.4	4713.6
22.5°	2829.7	2832.8	2829.7	2853.1	2954.2	3161.1	3522.0	3976.2	4366.7	4428.9	4884.7
25°	3098.9	3039.7	2965.1	2920.0	3004.0	3206.2	3578.0	4097.6	4495.8	4556.5	5051.2
27.5°	3934.2	3764.7	3497.1	3196.9	3106.6	3271.5	3655.8	4220.5	4626.5	4681.0	5230.1
30°	5290.8	5068.3	4614.1	3937.4	3436.4	3408.4	3756.9	4343.4	4765.0	4824.1	5421.4
32.5°	6650.4	6596.0	6071.7	5135.2	4178.5	3713.3	3924.9	4509.8	4948.5	4995.2	5679.7
35°	8025.6	7915.2	7485.8	6560.2	5321.9	4334.0	4204.9	4727.6	5189.7	5242.5	6056.2
37.5°	9078.8	9011.9	8745.9	7983.6	6678.4	5292.3	4684.1	5065.2	5539.7	5598.8	6538.4
40°	10009.1	9977.9	9887.7	9385.2	8195.2	6546.2	5429.2	5587.9	6025.0	6095.0	7129.6
42.5°	10740.2	10813.3	10864.7	10724.7	9758.6	7977.4	6431.1	6322.2	6701.7	6773.3	7882.5
45°	11488.5	11513.4	11720.3	11922.5	11311.1	9473.9	7560.5	7182.4	7543.4	7632.0	8784.8
47.5°	11969.2	12068.7	12432.8	12789.0	12616.3	10958.0	8773.9	8198.3	8518.7	8685.2	9795.9
50°	12005.0	12193.2	12694.1	13314.8	13566.8	12370.5	10093.1	9355.7	9696.4	9879.9	10875.6
52.5°	11409.1	11701.6	12477.9	13386.4	14080.2	13566.8	11457.4	10513.1	10950.2	11189.8	11995.6
55°	8747.4	9130.1	11664.3	12997.5	14100.4	14473.8	12785.9	11718.7	12347.2	12617.9	13205.9
57.5°	7621.1	7814.0	9170.6	12322.3	13725.5	14839.4	13986.9	12866.8	13867.1	14203.1	14349.3
60°	6340.8	6594.4	7691.1	11217.8	13216.8	14875.1	15047.8	14347.8	15514.5	15892.5	15397.8
62.5°	4309.2	4584.5	5675.0	9319.9	12521.4	14858.0	15917.4	15872.3	17345.5	17751.5	16286.1
65°	2669.5	2842.2	3560.9	7610.2	11549.2	14876.7	16827.5	17723.5	19277.6	19689.9	16973.7
67.5°	2109.5	2188.8	2563.7	5843.0	9873.7	14456.7	17736.0	19464.3	21096.2	21422.9	17183.7
70°	1417.2	1465.4	1865.2	3917.1	7345.8	12518.3	17718.9	20338.6	22032.7	22196.0	16418.3
72.5°	746.7	784.0	1090.5	1813.9	4436.7	8898.3	14935.8	19293.2	21100.9	20855.1	14033.5
75°	373.4	435.6	734.3	920.9	1894.8	4962.5	9274.8	15211.2	16608.1	15656.1	9004.1
77.5°	283.1	342.2	606.7	606.7	659.6	1670.8	3928.0	8296.3	7652.2	6371.9	2643.1
80°	180.5	233.3	530.5	458.9	275.4	424.7	1023.6	2324.1	1625.7	1236.7	480.7
82.5°	105.8	152.5	441.8	303.4	154.0	157.1	289.4	494.7	421.6	328.2	147.8
85°	42.0	99.6	303.4	119.8	60.7	38.9	87.1	105.8	87.1	65.3	37.3
87.5°	0.0	23.3	52.9	0.0	4.7	3.1	6.2	7.8	7.8	6.2	12.4
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°	3842.5	3842.5	3842.5	3842.5	3842.5	3842.5	3842.5	3842.5	3842.5	3842.5	3842.5
2.5°	3859.6	3862.7	3872.0	3873.6	3851.8	3823.8	3812.9	3808.2	3789.6	3788.0	3791.1
5°	3906.2	3920.2	3906.2	3865.8	3769.3	3634.0	3531.3	3447.3	3371.1	3347.8	3333.8
7.5°	3999.6	4013.6	3971.6	3812.9	3570.2	3301.1	3058.4	2887.3	2733.3	2675.7	2652.4
10°	4133.4	4152.0	4019.8	3699.3	3270.0	2837.5	2426.8	2137.5	1911.9	1820.1	1781.2
12.5°	4301.4	4309.2	4046.2	3526.7	2879.5	2261.9	1680.1	1370.5	1169.8	1095.2	1071.8
15°	4486.5	4475.6	4049.4	3291.8	2347.5	1599.2	1096.7	900.7	819.8	794.9	794.9
17.5°	4681.0	4635.8	3987.1	2952.6	1764.1	1093.6	813.6	766.9	752.9	746.7	745.2
20°	4872.3	4771.2	3873.6	2509.3	1266.3	816.7	738.9	724.9	717.2	714.0	710.9
22.5°	5046.5	4873.9	3679.1	1994.3	919.4	721.8	698.5	686.0	672.0	665.8	664.3
25°	5216.1	4933.0	3405.3	1513.6	735.8	675.2	656.5	633.2	614.5	606.7	603.6
27.5°	5381.0	4970.3	3063.1	1120.1	656.5	631.6	597.4	564.7	550.7	547.6	544.5
30°	5556.8	4982.8	2674.2	835.4	608.3	577.1	527.4	490.0	482.3	483.8	483.8
32.5°	5771.5	5001.4	2282.1	684.5	567.8	511.8	452.7	413.8	407.6	413.8	412.2
35°	6028.1	5038.8	1904.1	630.0	532.0	444.9	381.1	348.5	342.2	346.9	345.4
37.5°	6376.6	5099.4	1551.0	619.1	502.5	388.9	320.5	294.0	294.0	295.6	294.0
40°	6840.2	5261.2	1235.2	611.4	486.9	346.9	270.7	259.8	264.5	267.6	267.6
42.5°	7404.9	5605.0	1022.1	602.0	469.8	328.2	245.8	241.1	248.9	252.0	252.0
45°	8038.1	6040.6	947.4	586.5	454.3	340.7	234.9	228.7	238.0	239.6	241.1
47.5°	8693.0	6466.8	938.1	569.4	438.7	359.4	231.8	217.8	228.7	230.2	231.8
50°	9355.7	6745.3	947.4	542.9	413.8	359.4	233.3	206.9	216.2	220.9	222.5
52.5°	10023.1	6872.9	941.2	485.4	370.2	337.6	233.3	197.6	206.9	210.0	210.0
55°	10670.2	6848.0	846.3	399.8	314.2	298.7	227.1	189.8	196.0	197.6	197.6
57.5°	11182.0	6501.1	670.5	311.1	255.1	248.9	206.9	180.5	185.1	183.6	183.6
60°	11449.6	5738.8	479.1	239.6	200.7	196.0	182.0	168.0	171.1	163.3	161.8
62.5°	11452.7	4730.7	320.5	189.8	160.2	155.6	155.6	150.9	147.8	132.2	127.6
65°	11208.5	3612.2	213.1	150.9	129.1	121.3	130.7	129.1	118.2	96.5	93.3
67.5°	10654.7	2367.7	161.8	118.2	99.6	94.9	104.2	108.9	101.1	80.9	79.3
70°	9515.9	1378.3	133.8	91.8	74.7	70.0	84.0	93.3	84.0	65.3	62.2
72.5°	7904.3	743.6	108.9	68.4	51.3	46.7	66.9	76.2	66.9	48.2	46.7
75°	5129.0	398.2	84.0	45.1	26.4	29.6	49.8	56.0	46.7	31.1	28.0
77.5°	1722.1	175.8	52.9	21.8	12.4	12.4	29.6	34.2	21.8	10.9	9.3
80°	384.2	73.1	21.8	9.3	4.7	4.7	6.2	6.2	3.1	0.0	0.0
82.5°	126.0	29.6	9.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	48.2	10.9	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.7	1.6	0.0	0.0	0.0	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)