

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: P454480

Luminaire Tested: **GALN-SA5C-750-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454480  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5C-750-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25469 lumens  
Efficiency: N/A  
Efficacy: 94.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

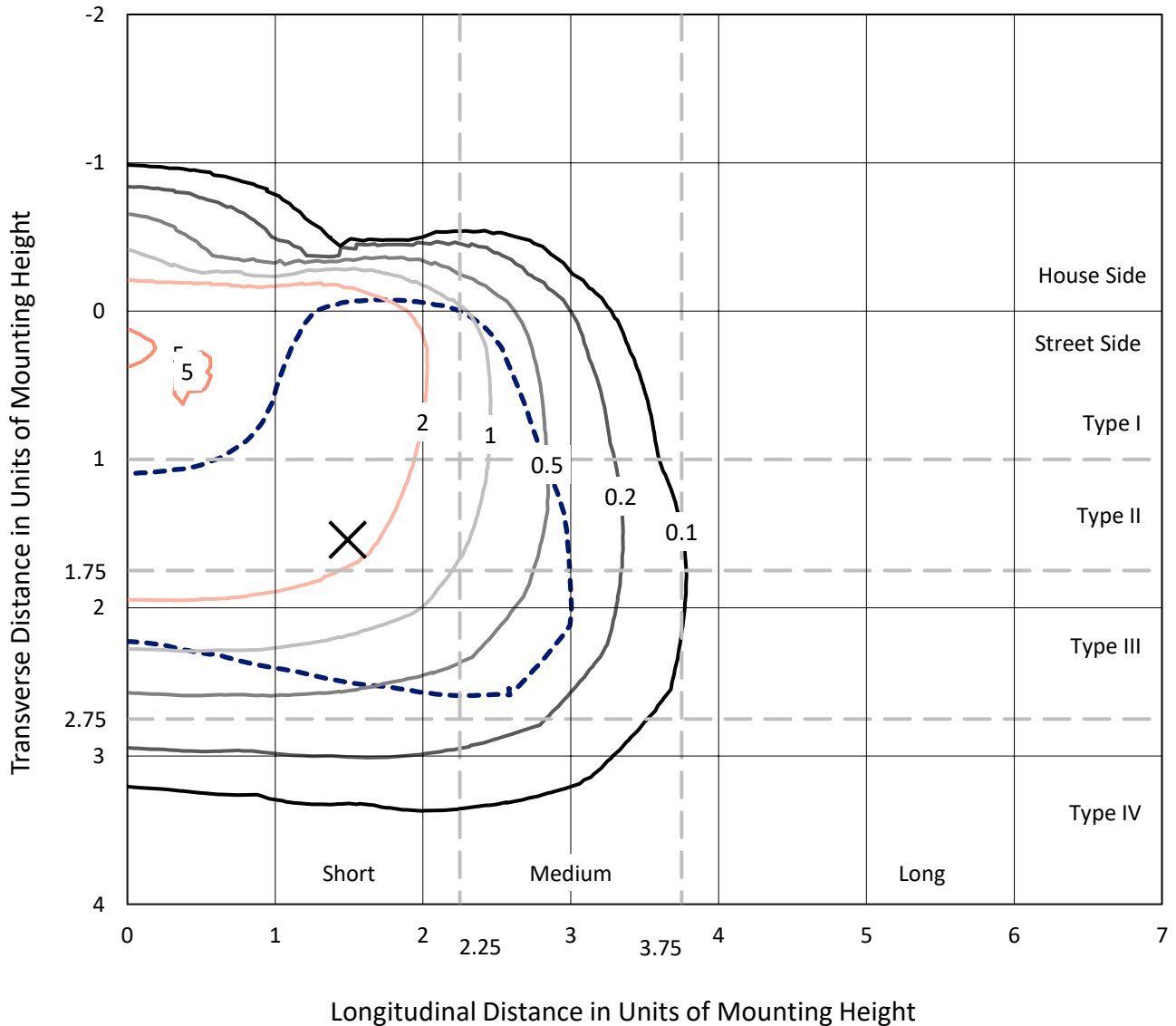
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

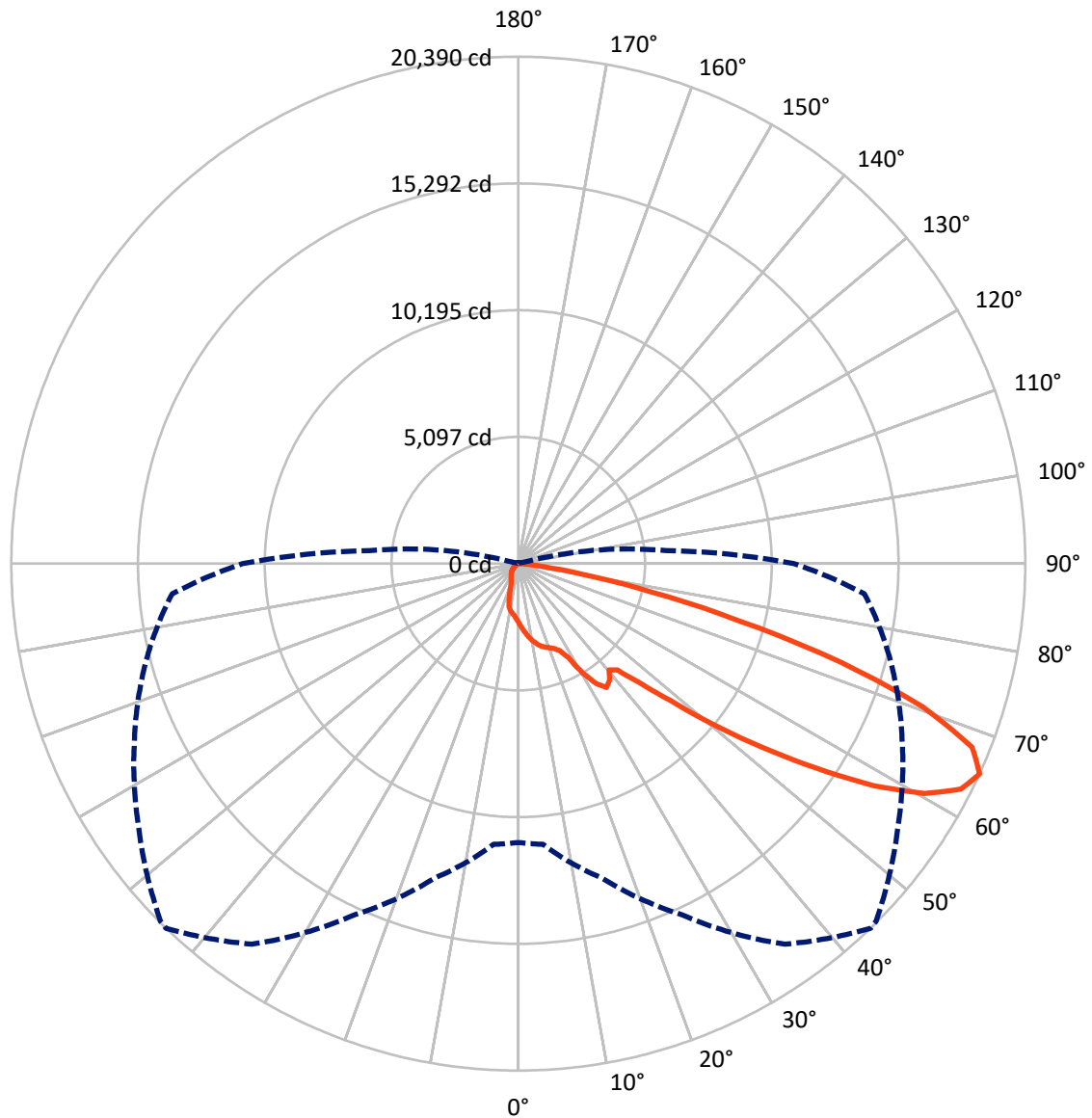
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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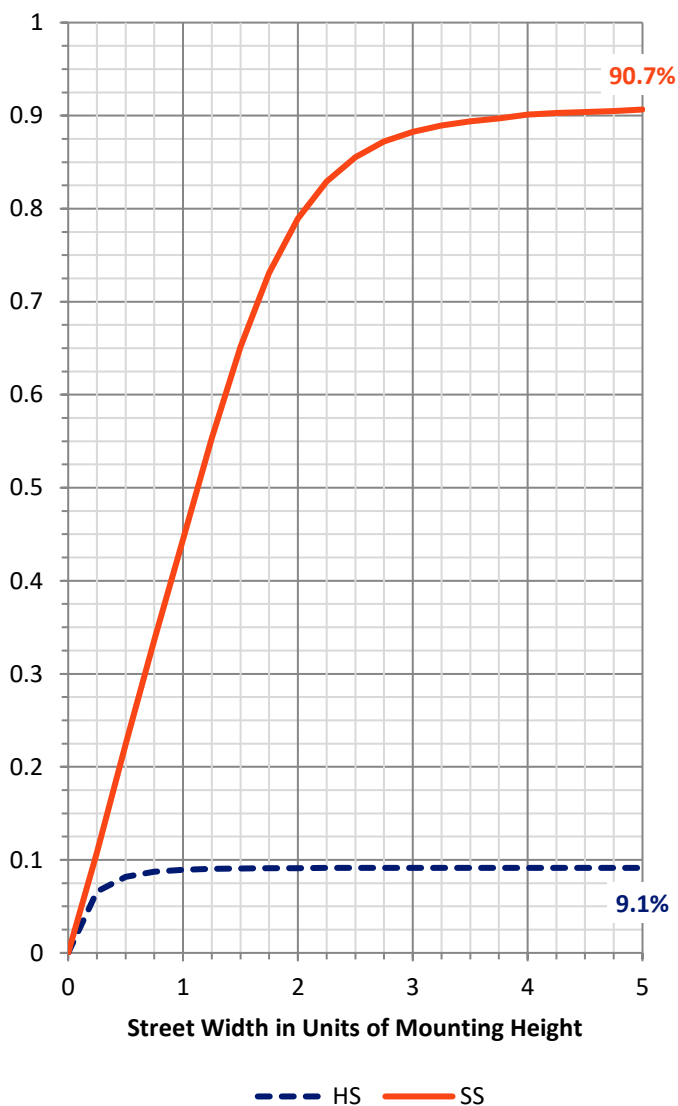
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2346.6	0.0	2346.6
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	23122.4	0.0	23122.4
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	25469.0	0.0	25469.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.8	0.9
10°-20°	709.6	2.8
20°-30°	1203.2	4.7
30°-40°	2000.5	7.9
40°-50°	3492.9	13.7
50°-60°	6823.8	26.8
60°-70°	7917.2	31.1
70°-80°	2883.1	11.3
80°-90°	203.1	0.8
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°	25469.0	100.0
0°-180°	25469.0	100.0

**Coefficient of Utilization**



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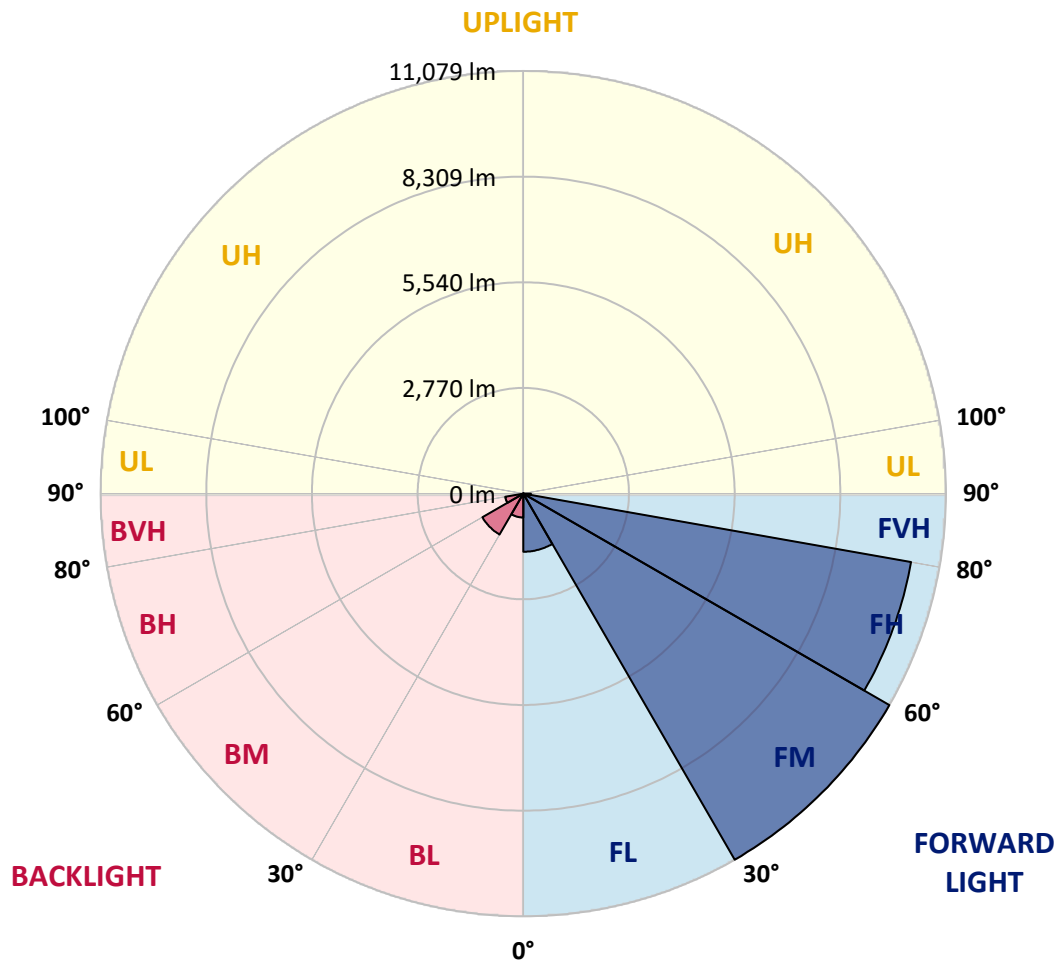
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1523.3	6.0			
FM	(30°-60°)	11079.1	43.5			
FH	(60°-80°)	10319.7	40.5			G4/12000
FVH	(80°-90°)	200.4	0.8			G2/225
BL	(0°-30°)	625.2	2.5	B2/1000		
BM	(30°-60°)	1238.1	4.9	B2/2500		
BH	(60°-80°)	480.5	1.9	B1/500		G1/500
BVH	(80°-90°)	2.8	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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2370.4	2370.4	2370.4	2370.4	2370.4	2370.4	2370.4	2370.4	2370.4	2370.4	2370.4
2.5°	2668.2	2656.5	2650.6	2619.5	2596.2	2567.0	2567.0	2530.0	2487.2	2440.5	2397.7
5°	2965.9	2946.5	2921.2	2893.9	2839.4	2761.6	2761.6	2683.7	2594.2	2514.4	2426.8
7.5°	3252.0	3234.5	3191.7	3139.1	3049.6	2967.9	2962.0	2849.2	2742.1	2621.5	2496.9
10°	3503.1	3489.4	3452.5	3351.3	3257.8	3150.8	3148.9	3022.4	2897.8	2749.9	2596.2
12.5°	3678.2	3680.2	3631.5	3534.2	3413.5	3312.3	3304.6	3180.0	3049.6	2890.0	2701.2
15°	3802.8	3802.8	3752.2	3643.2	3534.2	3444.7	3436.9	3327.9	3193.6	3020.4	2816.1
17.5°	3837.8	3849.5	3795.0	3697.7	3610.1	3532.3	3530.3	3438.8	3331.8	3164.4	2932.8
20°	3824.2	3835.9	3793.0	3717.1	3656.8	3612.0	3606.2	3569.2	3470.0	3312.3	3057.4
22.5°	3795.0	3806.7	3775.5	3730.8	3701.6	3715.2	3705.5	3736.6	3684.1	3493.3	3205.3
25°	3800.8	3812.5	3789.1	3763.8	3789.1	3872.8	3898.1	4032.4	3985.7	3723.0	3364.9
27.5°	3983.8	4007.1	3974.0	3985.7	4075.2	4269.8	4318.5	4550.1	4343.8	4014.9	3614.0
30°	4390.5	4374.9	4312.7	4369.1	4680.5	5093.1	5079.4	5042.5	4719.4	4351.6	3909.8
32.5°	4760.3	4746.6	4742.8	4986.0	5550.4	5750.9	5741.1	5383.0	5056.1	4736.9	4201.7
35°	4910.1	4857.6	4845.9	5435.6	6379.5	6114.8	6054.5	5523.2	5464.8	5157.3	4499.5
37.5°	5361.6	5324.7	5143.7	5509.5	6048.6	5961.0	5914.3	5764.5	5900.7	5529.0	4836.2
40°	6291.9	6188.7	6025.3	5667.2	5579.6	5616.6	5663.3	6073.9	6416.4	6036.9	5285.7
42.5°	7447.9	7424.5	7120.9	6453.4	5797.6	5848.2	5908.5	6720.0	7157.9	6801.8	6019.4
45°	8835.5	8868.6	8430.7	7642.5	6782.3	6825.1	6912.7	7673.6	8162.1	7990.9	7173.5
47.5°	10096.6	10071.3	9923.4	9104.1	8310.0	8214.7	8356.7	8897.8	9551.7	9578.9	8605.9
50°	11365.5	11499.8	11279.9	10958.7	10369.1	10168.6	10116.1	10380.7	11377.2	11246.8	10326.2
52.5°	13189.0	13259.1	12846.5	12764.8	12899.0	12249.0	12196.5	12260.7	13152.0	12704.4	11614.6
55°	14335.3	14294.4	14140.7	14779.0	15310.3	14498.8	14432.6	14173.8	14625.3	13733.9	12854.3
57.5°	14697.3	14755.7	15113.8	16267.8	17525.0	16836.1	16715.4	15979.8	15687.9	14693.4	13994.7
60°	14535.8	14642.8	15415.4	17131.9	18875.7	18772.5	18669.4	17433.6	16450.8	15495.2	14794.6
62.5°	13385.6	13535.4	14771.2	16978.2	19333.0	19977.2	19848.7	18340.5	16958.7	15884.4	14934.7
65°	11217.6	11328.5	13103.4	15582.8	18683.0	20389.8	20343.1	18624.6	17038.5	15528.3	13975.3
67.5°	7996.7	8374.3	10018.8	13132.6	16760.2	19685.3	19765.0	18284.0	16289.2	13988.9	11573.7
70°	5026.9	5283.8	6463.1	9401.8	13436.2	17270.1	17532.8	16725.2	14136.8	10904.2	7747.6
72.5°	2397.7	2588.4	3429.1	5951.3	9483.6	13588.0	13796.2	13730.1	10931.5	6869.9	3997.4
75°	1068.4	1140.4	1636.7	3037.9	6122.6	9133.3	9672.3	9761.9	6831.0	3361.0	1555.0
77.5°	544.9	546.9	766.8	1471.3	3057.4	5449.2	5556.2	5869.6	3703.5	1481.0	541.0
80°	290.0	309.4	406.7	694.8	1586.1	2683.7	2670.1	2934.8	1642.5	725.9	181.0
82.5°	130.4	144.0	229.6	363.9	774.6	1017.8	1097.6	1200.8	704.5	463.2	79.8
85°	38.9	46.7	112.9	182.9	280.2	293.9	328.9	424.3	399.0	328.9	40.9
87.5°	5.8	5.8	46.7	50.6	40.9	52.5	54.5	60.3	128.4	120.7	21.4
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°	2370.4	2370.4	2370.4	2370.4	2370.4	2370.4	2370.4	2370.4	2370.4	2370.4	2370.4
2.5°	2374.3	2360.7	2312.0	2271.2	2236.1	2214.7	2189.4	2173.8	2166.1	2160.2	2162.2
5°	2384.0	2350.9	2267.3	2201.1	2150.5	2096.0	2059.0	2037.6	2027.9	2012.3	2012.3
7.5°	2438.5	2386.0	2269.2	2168.0	2080.4	2006.5	1936.4	1911.1	1893.6	1889.7	1885.8
10°	2516.4	2450.2	2290.6	2150.5	2025.9	1924.7	1825.5	1737.9	1669.8	1628.9	1623.1
12.5°	2613.7	2518.3	2323.7	2138.8	1979.2	1800.2	1537.5	1360.4	1241.6	1204.7	1210.5
15°	2703.2	2600.0	2356.8	2129.1	1893.6	1492.7	1194.9	992.5	932.2	926.4	928.3
17.5°	2810.2	2687.6	2395.7	2115.5	1658.1	1140.4	887.4	832.9	844.6	864.1	862.1
20°	2921.2	2781.0	2442.4	2033.7	1323.4	858.2	784.3	790.1	807.7	825.2	829.1
22.5°	3039.9	2888.1	2496.9	1837.2	1010.0	747.3	743.4	751.2	768.7	788.2	792.1
25°	3203.4	3022.4	2537.8	1580.3	764.8	690.9	698.7	712.3	727.9	749.3	753.2
27.5°	3413.5	3203.4	2559.2	1245.5	661.7	640.3	642.2	661.7	681.2	700.6	700.6
30°	3686.0	3419.4	2516.4	941.9	611.1	591.6	583.8	595.5	620.8	640.3	642.2
32.5°	3929.3	3623.7	2403.5	720.1	574.1	546.9	527.4	529.4	539.1	550.8	552.7
35°	4172.5	3822.2	2210.8	605.3	535.2	504.1	474.9	459.3	451.5	445.7	451.5
37.5°	4483.9	4069.4	1953.9	550.8	502.1	463.2	422.3	389.2	362.0	344.5	348.4
40°	4884.8	4411.9	1650.3	515.7	471.0	424.3	369.8	327.0	280.2	264.7	256.9
42.5°	5546.5	4931.5	1331.2	486.5	439.8	383.4	315.3	256.9	214.1	198.5	202.4
45°	6591.6	5587.4	1025.6	455.4	408.7	338.6	264.7	202.4	167.4	159.6	163.5
47.5°	7977.2	6435.9	790.1	420.4	369.8	290.0	208.2	159.6	138.2	136.2	134.3
50°	9281.2	7226.0	659.7	381.4	323.1	241.3	171.3	134.3	120.7	118.7	118.7
52.5°	10460.5	7792.4	537.1	336.7	272.5	198.5	144.0	118.7	107.0	101.2	101.2
55°	11509.5	8162.1	435.9	282.2	214.1	157.6	124.6	107.0	93.4	85.6	83.7
57.5°	12301.6	8206.9	327.0	225.8	159.6	122.6	107.0	93.4	77.8	68.1	64.2
60°	12640.2	7819.6	241.3	171.3	118.7	97.3	85.6	75.9	58.4	48.7	46.7
62.5°	12299.6	7066.5	179.0	130.4	91.5	72.0	60.3	56.4	40.9	29.2	27.2
65°	11079.4	5978.6	142.1	99.3	68.1	52.5	38.9	37.0	25.3	13.6	11.7
67.5°	8876.4	4682.4	112.9	74.0	48.7	35.0	25.3	23.4	13.6	3.9	3.9
70°	5772.3	2993.2	91.5	54.5	31.1	23.4	15.6	11.7	7.8	1.9	0.0
72.5°	2855.0	1399.3	74.0	42.8	21.4	11.7	5.8	3.9	5.8	0.0	0.0
75°	1107.4	498.2	54.5	29.2	11.7	5.8	3.9	0.0	1.9	0.0	0.0
77.5°	367.8	165.4	33.1	15.6	7.8	3.9	0.0	0.0	0.0	0.0	0.0
80°	136.2	64.2	17.5	9.7	3.9	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	54.5	25.3	11.7	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.2	15.6	7.8	5.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.5	11.7	7.8	5.8	3.9	1.9	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)