

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: P383346

Luminaire Tested: **GLEON-SA6C-735-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383346  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA6C-735-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28717.7 lumens  
Efficiency: N/A  
Efficacy: 86.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

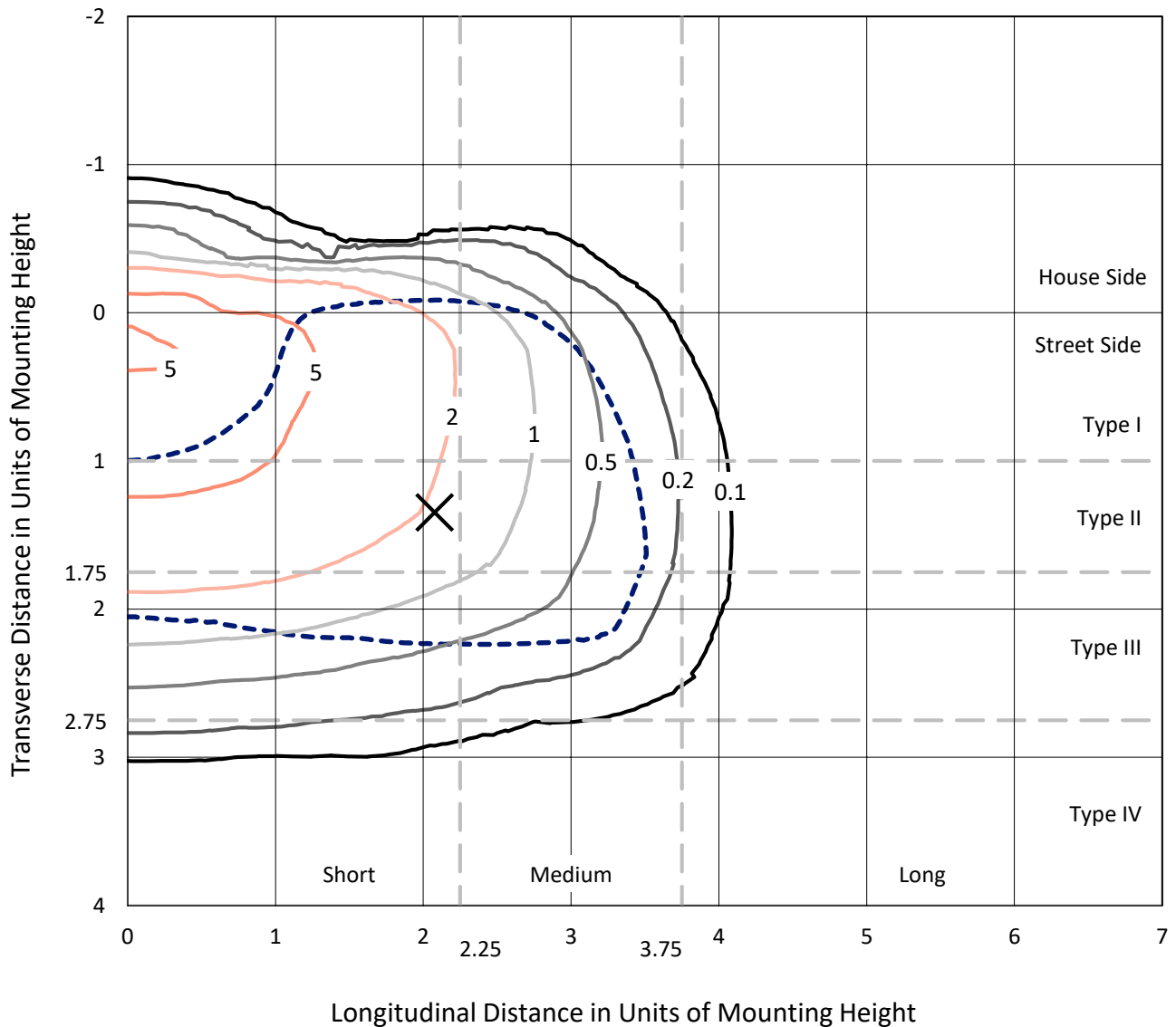
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

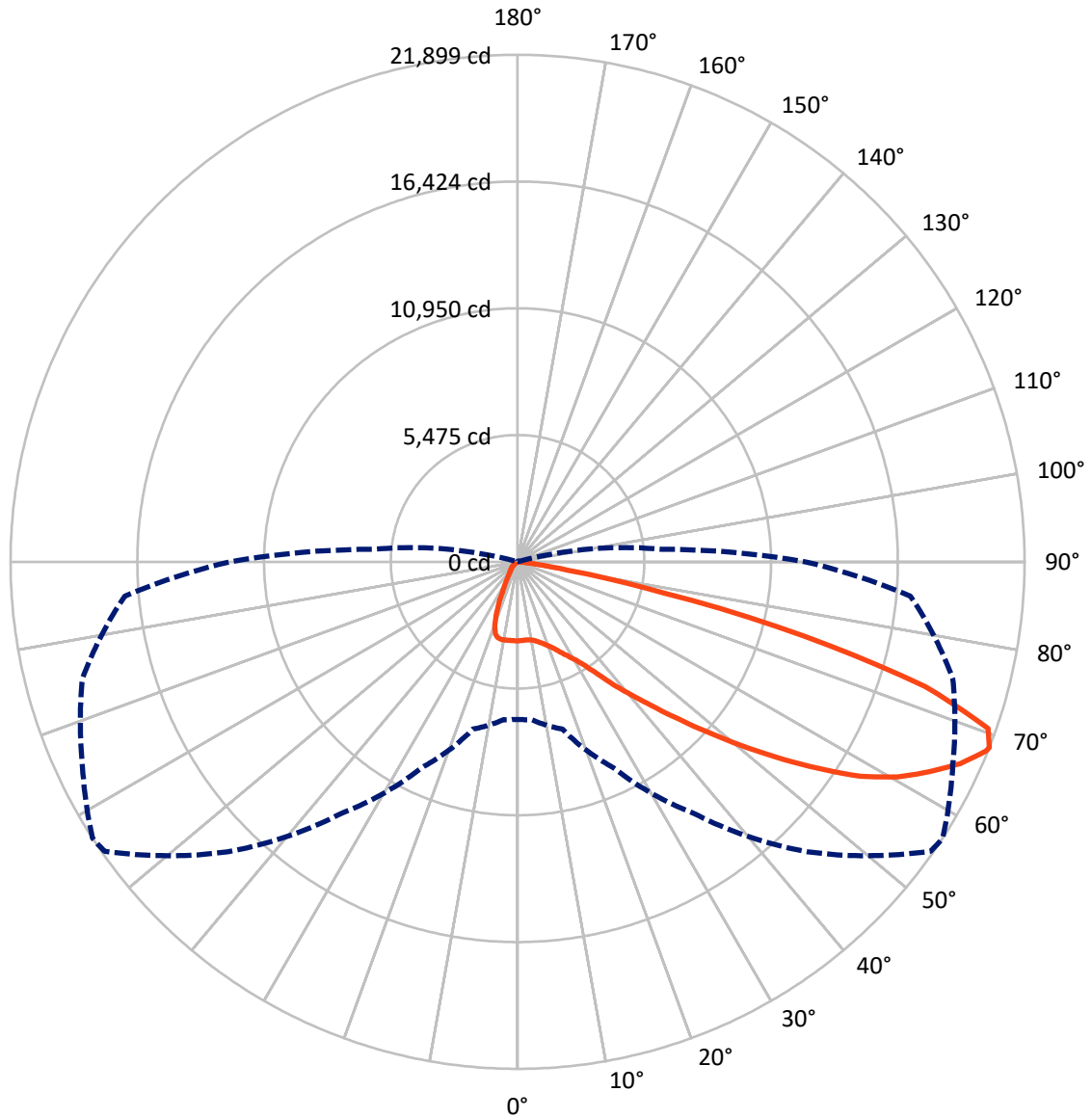
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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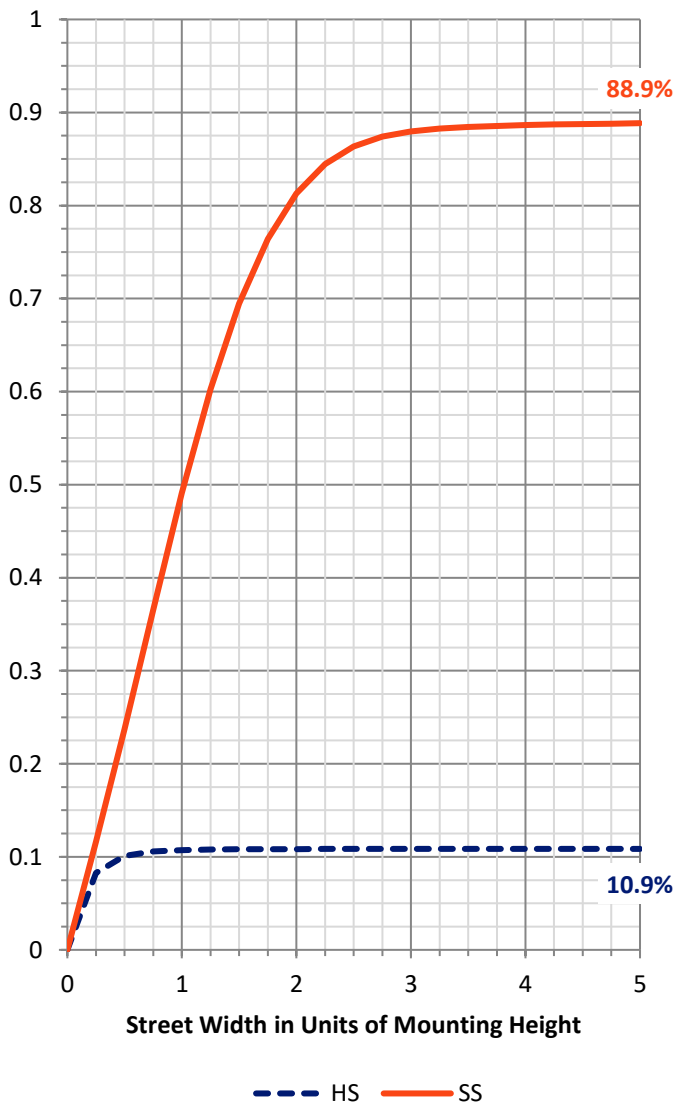
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3149.0	0.0	3149.0
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	25568.7	0.0	25568.7
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	28717.7	0.0	28717.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	319.4	1.1
10°-20°	884.9	3.1
20°-30°	1526.6	5.3
30°-40°	2634.9	9.2
40°-50°	4507.0	15.7
50°-60°	7210.8	25.1
60°-70°	8331.3	29.0
70°-80°	3183.5	11.1
80°-90°	119.3	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°	28717.7	100.0
0°-180°	28717.7	100.0

**Coefficient of Utilization**

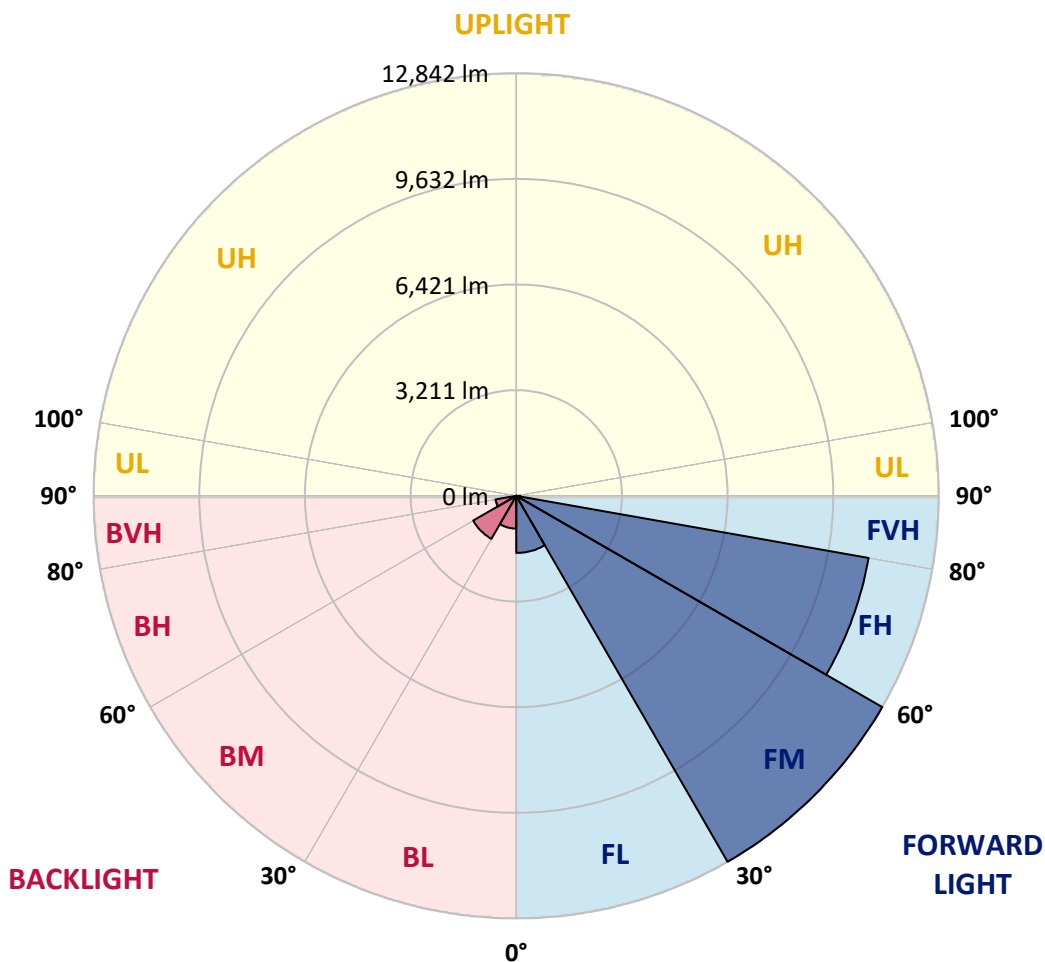


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1735.7	6.0			
FM (30°-60°)	12842.3	44.7			
FH (60°-80°)	10873.5	37.9			G4/12000
FVH (80°-90°)	117.2	0.4			G2/225
BL (0°-30°)	995.2	3.5	B2/1000		
BM (30°-60°)	1510.3	5.3	B2/2500		
BH (60°-80°)	641.3	2.2	B2/1000		G2/1000
BVH (80°-90°)	2.2	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°	45°	55°	57°	65°	75°	85°
0°	3412.4	3412.4	3412.4	3412.4	3412.4	3412.4	3412.4	3412.4	3412.4	3412.4	3412.4
2.5°	3332.3	3347.2	3358.1	3364.9	3373.0	3390.7	3396.1	3404.2	3408.3	3408.3	3417.8
5°	3200.6	3216.9	3240.0	3259.0	3297.0	3345.9	3381.2	3394.7	3419.2	3441.0	3453.2
7.5°	3078.4	3097.4	3124.5	3169.4	3234.5	3313.3	3386.6	3405.6	3453.2	3499.4	3522.5
10°	2999.6	3014.6	3049.9	3113.7	3199.2	3309.2	3412.4	3435.5	3517.0	3594.4	3637.9
12.5°	2972.5	2986.1	3022.7	3094.7	3200.6	3329.6	3472.2	3506.2	3625.6	3738.3	3799.4
15°	3011.9	3014.6	3053.9	3121.8	3226.4	3379.8	3571.3	3612.1	3762.8	3909.4	3985.4
17.5°	3163.9	3151.7	3172.1	3201.9	3284.8	3446.4	3675.9	3737.0	3937.9	4110.4	4182.4
20°	3544.2	3544.2	3498.0	3416.5	3417.8	3549.6	3817.1	3886.3	4132.2	4331.7	4396.9
22.5°	4194.6	4182.4	4090.1	3890.4	3707.1	3727.5	3989.5	4079.2	4365.7	4578.8	4600.6
25°	4976.7	4961.8	4819.2	4538.1	4220.4	4015.3	4223.1	4326.3	4644.0	4832.8	4788.0
27.5°	5805.0	5792.8	5651.6	5302.6	4850.5	4474.3	4501.4	4599.2	4927.9	5113.9	4971.3
30°	6607.6	6611.7	6471.8	6113.3	5601.4	5059.6	4854.5	4911.6	5203.5	5392.3	5188.5
32.5°	7370.8	7376.2	7255.3	6854.7	6376.7	5739.9	5343.4	5328.5	5524.0	5710.0	5476.5
35°	8051.1	8064.6	7981.8	7670.8	7164.3	6497.6	5977.6	5942.2	5978.9	6189.4	5917.7
37.5°	8706.9	8715.1	8652.6	8390.5	7966.9	7330.0	6778.7	6728.5	6649.7	6811.3	6500.3
40°	9425.2	9404.9	9332.9	9095.3	8731.4	8249.3	7639.6	7552.7	7415.6	7559.5	7266.2
42.5°	10093.3	10070.2	10082.5	9813.6	9506.7	9194.4	8643.1	8493.8	8413.6	8579.3	8205.8
45°	10928.5	10916.2	10957.0	10723.4	10474.9	10248.1	9793.3	9630.2	9594.9	9789.2	9342.4
47.5°	11752.7	11782.6	11908.9	11809.7	11709.3	11509.6	11011.3	10938.0	10959.7	11194.6	10541.5
50°	12439.8	12475.1	12821.4	12935.5	13080.7	12964.0	12464.3	12419.4	12505.0	12716.8	11831.5
52.5°	12936.8	13008.8	13439.3	13964.7	14494.3	14573.0	14074.8	14034.0	14149.4	14182.0	12828.2
55°	13281.7	13345.5	13833.0	14794.5	15872.6	16212.1	15902.4	15744.9	15723.2	15401.4	13876.5
57.5°	13342.8	13336.0	14036.7	15330.8	16953.5	17829.4	17633.8	17479.0	17033.6	16528.4	15078.2
60°	12997.9	13037.3	13850.7	15516.8	17632.4	19052.8	19067.8	18866.8	18172.9	17624.3	16243.3
62.5°	11936.0	12096.2	12917.8	15029.3	17624.3	19545.7	20118.8	19965.3	19135.7	18521.9	17424.7
65°	10214.2	10271.2	11054.8	13359.1	16433.4	19339.3	21065.3	21008.2	20003.4	19393.7	18031.7
67.5°	7459.0	7335.5	8158.3	10519.7	13913.1	18136.2	21744.2	21816.2	20672.8	19572.9	17385.3
68°	6807.2	6843.9	7484.8	9817.7	13253.2	17711.2	21789.0	21899.0	20739.3	19456.1	17032.2
70°	4057.4	4128.1	4699.8	6759.7	10082.5	15306.4	21305.6	21556.8	20342.9	18251.6	14732.0
72.5°	1036.1	1120.3	1660.8	3025.4	5758.9	10784.5	17985.5	18410.5	17662.3	14806.7	9945.3
75°	426.4	448.1	593.4	996.7	2145.5	4858.6	11854.5	12764.3	12244.3	8864.4	4494.7
77.5°	294.6	309.6	381.6	552.7	928.8	1647.2	5811.8	6469.0	5828.1	3025.4	980.5
80°	211.8	224.0	272.9	368.0	533.7	588.0	1894.3	2190.3	1739.5	664.0	243.0
82.5°	126.3	135.8	203.7	262.0	324.6	281.0	471.2	535.0	503.8	330.0	108.6
85°	62.5	73.3	137.1	187.4	175.1	118.1	143.9	160.2	198.2	200.9	58.4
87.5°	4.1	8.1	80.1	112.7	48.9	27.2	42.1	51.6	70.6	99.1	24.4
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°	3412.4	3412.4	3412.4	3412.4	3412.4	3412.4	3412.4	3412.4	3412.4	3412.4	3412.4
2.5°	3421.9	3423.3	3413.7	3409.7	3412.4	3396.1	3389.3	3392.0	3392.0	3396.1	3389.3
5°	3455.9	3455.9	3439.6	3417.8	3405.6	3374.4	3354.0	3348.6	3344.5	3341.8	3336.3
7.5°	3529.2	3521.1	3492.6	3445.0	3404.2	3336.3	3284.8	3257.6	3244.0	3238.6	3234.5
10°	3647.4	3632.4	3584.9	3496.7	3402.9	3282.0	3169.4	3089.2	3022.7	2995.6	2979.3
12.5°	3806.2	3784.5	3704.4	3557.8	3393.4	3170.7	2926.3	2691.3	2472.8	2383.1	2338.3
15°	3989.5	3958.3	3832.0	3609.3	3337.7	2919.5	2388.6	1977.1	1674.3	1560.2	1511.3
17.5°	4175.6	4134.9	3943.3	3641.9	3170.7	2399.4	1675.7	1265.6	1063.3	1009.0	990.0
20°	4363.0	4303.2	4039.7	3617.5	2793.2	1730.0	1105.4	924.7	866.3	850.0	844.6
22.5°	4540.8	4448.5	4126.7	3522.5	2212.1	1161.0	874.5	817.4	798.4	788.9	786.2
25°	4695.7	4566.6	4202.8	3229.1	1565.7	877.2	787.6	768.6	744.1	726.5	727.8
27.5°	4841.0	4684.8	4248.9	2745.7	1044.3	749.5	729.2	703.4	658.6	632.8	632.8
30°	5016.1	4842.3	4282.9	2112.9	768.6	662.7	646.4	607.0	545.9	511.9	511.9
32.5°	5279.5	5081.3	4261.1	1482.8	636.9	582.5	544.5	490.2	423.7	391.1	389.8
35°	5682.8	5450.7	4106.4	972.3	562.2	506.5	445.4	378.9	320.5	293.3	291.9
37.5°	6226.0	5945.0	3758.7	695.2	503.8	435.9	362.6	289.2	245.7	228.1	226.7
40°	6930.8	6519.3	3261.7	563.5	449.5	368.0	279.7	224.0	194.1	180.6	181.9
42.5°	7776.7	7134.4	2665.5	486.2	396.5	302.8	218.6	176.5	157.5	148.0	145.3
45°	8716.4	7741.4	2040.9	433.2	343.6	244.4	171.1	139.8	124.9	119.5	119.5
47.5°	9749.8	8332.1	1493.7	387.0	286.5	188.7	137.1	114.0	101.8	97.8	96.4
50°	10688.1	8742.2	1076.8	338.2	234.9	149.3	111.3	95.0	86.9	81.5	81.5
52.5°	11470.2	8871.2	793.0	285.1	190.1	119.5	92.3	81.5	73.3	69.2	69.2
55°	12158.7	8818.2	589.3	234.9	153.4	97.8	78.7	69.2	62.5	58.4	58.4
57.5°	12818.7	8647.2	440.0	191.4	123.5	78.7	66.5	58.4	51.6	48.9	48.9
60°	13357.7	8362.0	327.3	154.8	99.1	63.8	55.7	47.5	42.1	38.0	38.0
62.5°	13795.0	8047.0	240.3	127.6	78.7	50.2	43.4	39.4	31.2	27.2	27.2
65°	13797.7	7524.2	180.6	105.9	61.1	39.4	32.6	31.2	20.4	16.3	14.9
67.5°	12799.7	6486.7	138.5	91.0	47.5	29.9	24.4	25.8	10.9	6.8	5.4
68°	12437.1	6223.3	130.3	89.6	44.8	28.5	23.1	25.8	9.5	5.4	4.1
70°	10485.8	4950.9	104.5	86.9	39.4	21.7	19.0	25.8	8.1	4.1	2.7
72.5°	6706.7	2873.4	77.4	69.2	29.9	16.3	12.2	23.1	8.1	2.7	1.4
75°	2854.4	890.7	52.9	48.9	17.6	12.2	8.1	14.9	5.4	1.4	0.0
77.5°	601.6	200.9	31.2	29.9	12.2	8.1	5.4	4.1	1.4	0.0	0.0
80°	154.8	58.4	16.3	14.9	6.8	4.1	2.7	0.0	0.0	0.0	0.0
82.5°	48.9	23.1	9.5	6.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.4	13.6	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.6	4.1	1.4	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)