

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: P383510

Luminaire Tested: **GLEON-SA8A-735-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383510  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA8A-735-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24751.2 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G4

Input Watts (W): 257  
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

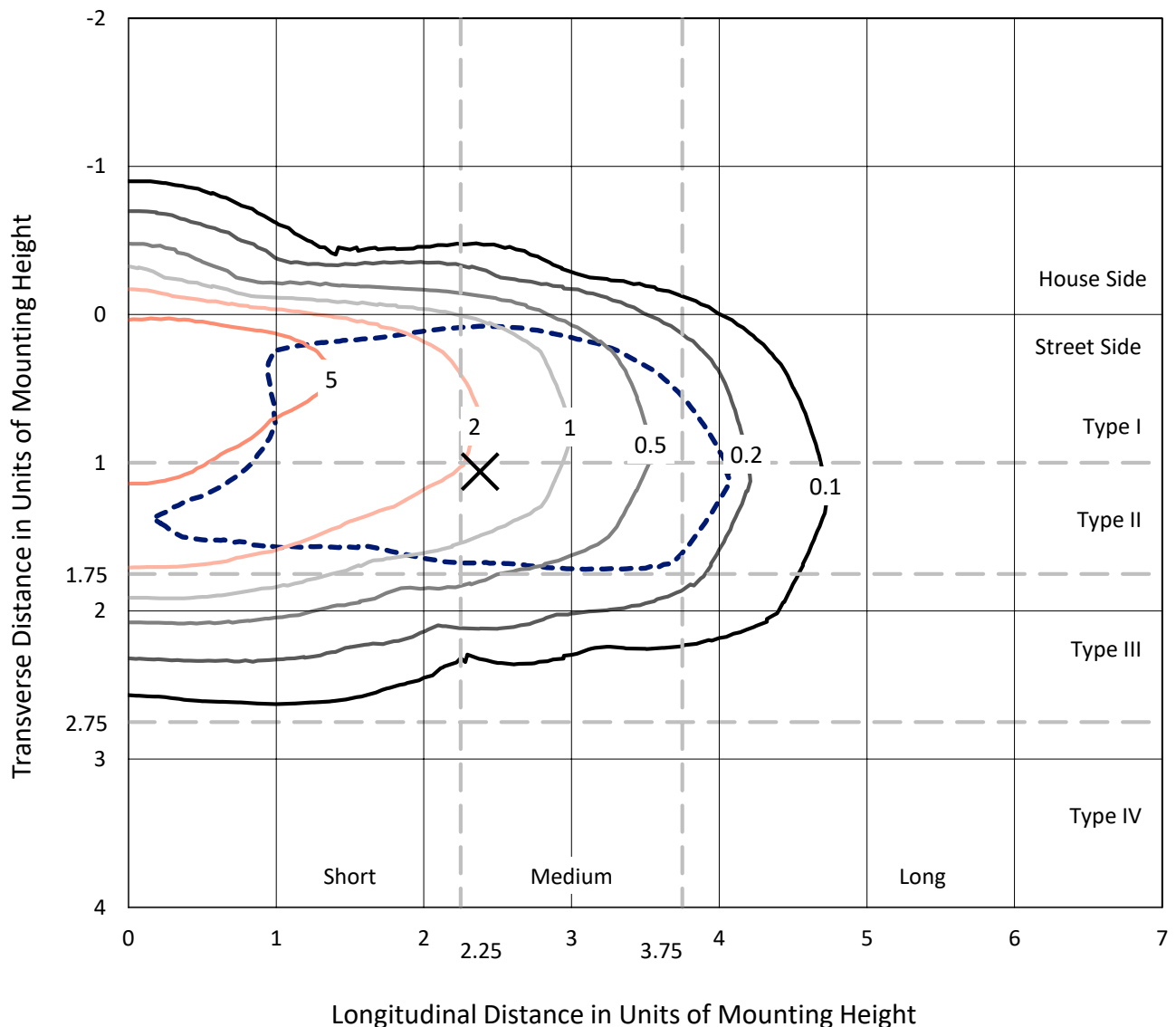




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### Iso-Footcandle Lines of Horizontal Illumination

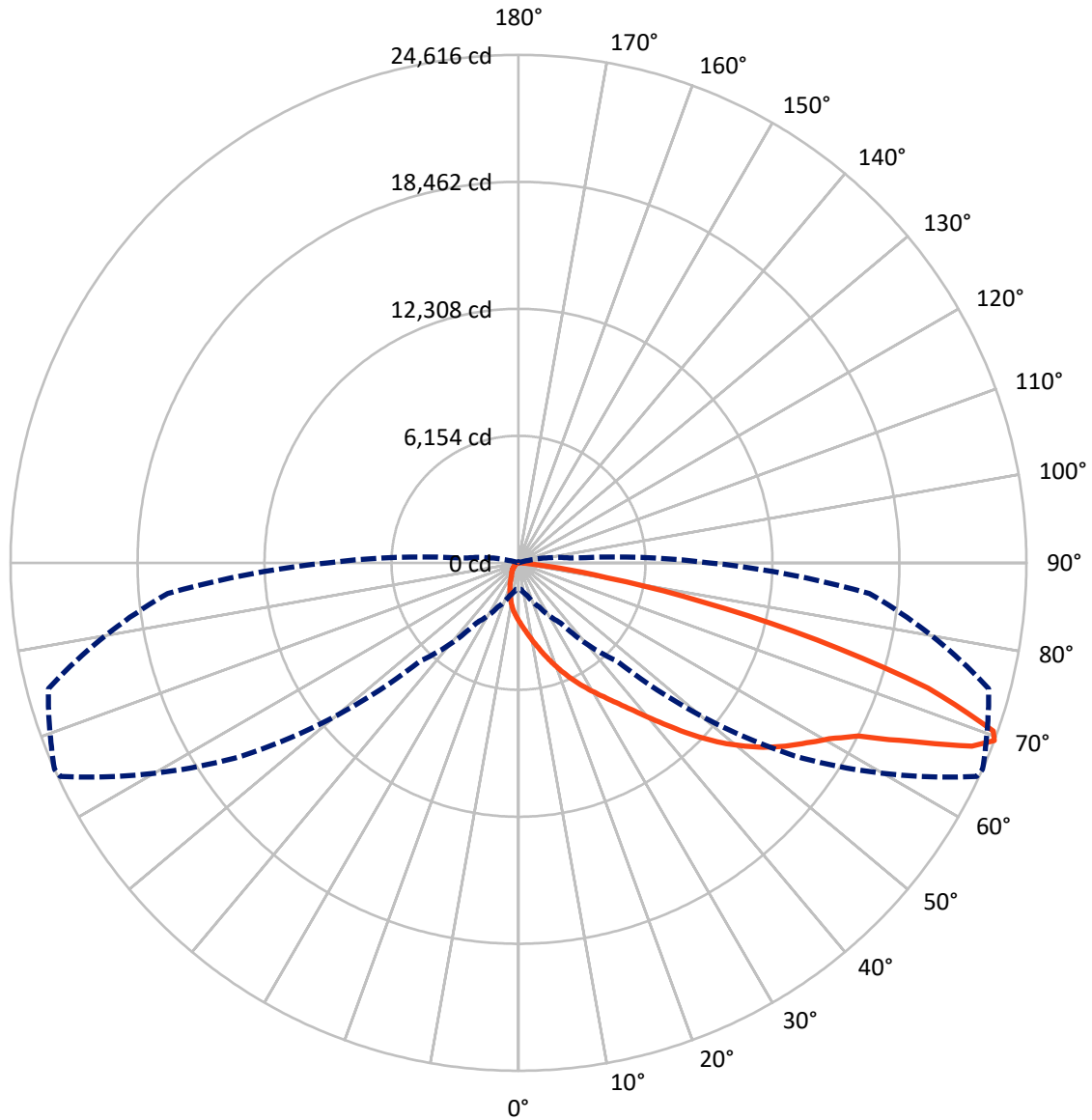
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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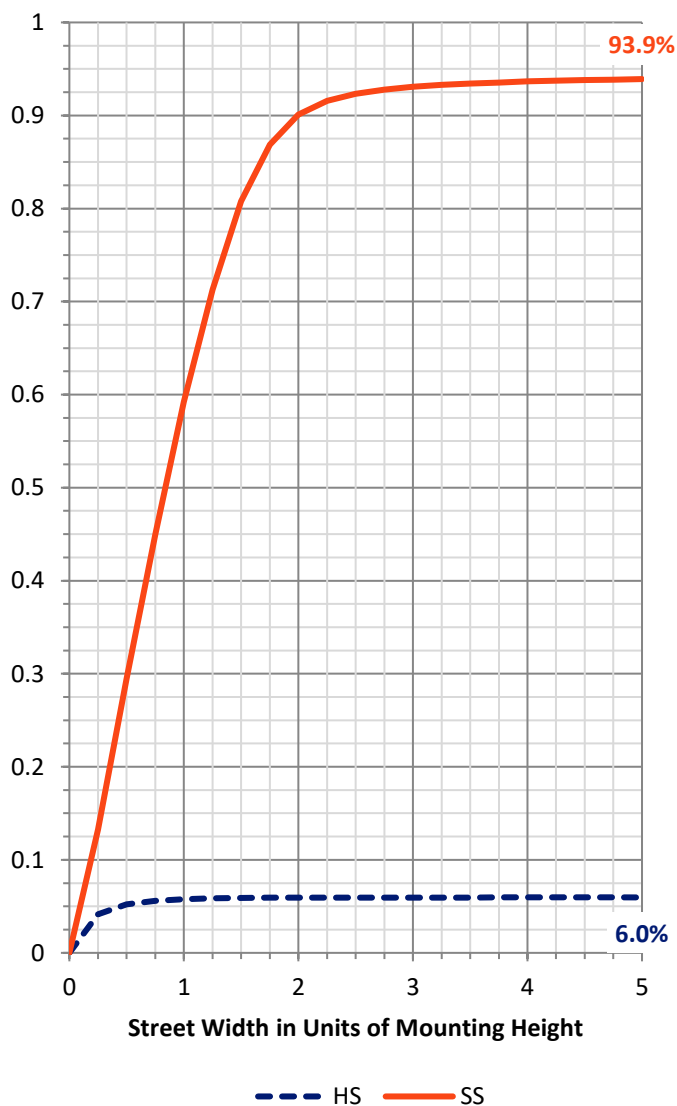
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1484.7	0.0	1484.7
	% Fixture	6.0	0.0	6.0
<b>Street Side</b>	Lumens	23266.5	0.0	23266.5
	% Fixture	94.0	0.0	94.0
<b>Total</b>	Lumens	24751.2	0.0	24751.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	272.3	1.1
10°-20°	810.4	3.3
20°-30°	1411.1	5.7
30°-40°	2475.8	10.0
40°-50°	4144.1	16.7
50°-60°	6091.4	24.6
60°-70°	6254.4	25.3
70°-80°	3087.6	12.5
80°-90°	204.1	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°	24751.2	100.0
0°-180°	24751.2	100.0

**Coefficient of Utilization**

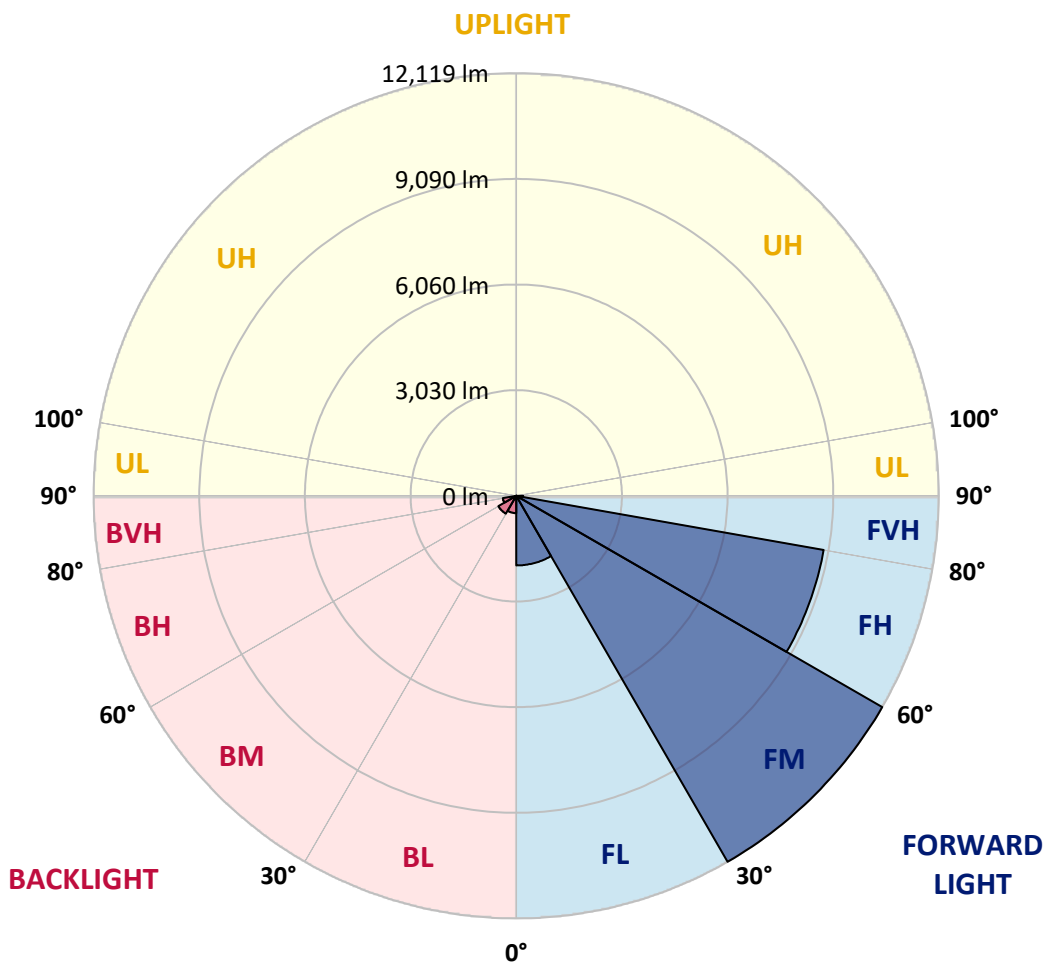


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1997.2	8.1			
FM (30°-60°)	12119.4	49.0			
FH (60°-80°)	8950.7	36.2			G4/12000
FVH (80°-90°)	199.2	0.8			G2/225
BL (0°-30°)	496.6	2.0	B1/500		
BM (30°-60°)	592.0	2.4	B1/1000		
BH (60°-80°)	391.3	1.6	B1/500		G1/500
BVH (80°-90°)	4.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G4**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2816.8	2816.8	2816.8	2816.8	2816.8	2816.8	2816.8	2816.8	2816.8	2816.8	2816.8
2.5°	3315.2	3301.1	3295.3	3269.4	3224.7	3190.6	3124.8	3048.4	3034.2	2960.2	2869.6
5°	3745.5	3733.7	3725.5	3689.1	3643.2	3557.4	3437.5	3295.3	3268.2	3127.1	2946.1
7.5°	4045.2	4066.5	4066.5	4042.9	3985.3	3920.7	3773.7	3579.8	3545.7	3329.4	3048.4
10°	4220.5	4246.3	4266.3	4286.3	4278.0	4252.2	4113.4	3894.8	3853.6	3566.8	3167.1
12.5°	4236.9	4262.8	4319.2	4402.7	4483.8	4542.6	4455.6	4243.9	4196.9	3841.9	3308.2
15°	4145.2	4172.2	4259.2	4421.5	4617.8	4789.5	4817.7	4630.7	4582.6	4169.9	3484.5
17.5°	3985.3	4003.0	4127.6	4352.1	4660.2	4975.2	5145.7	5045.7	5001.0	4544.9	3680.8
20°	3866.6	3879.5	3988.9	4229.9	4634.3	5091.6	5456.0	5486.6	5439.6	4947.0	3893.6
22.5°	4069.9	4093.5	4097.0	4211.1	4563.7	5149.2	5728.7	5920.4	5885.1	5373.7	4102.9
25°	4626.1	4653.1	4563.7	4493.2	4623.6	5175.0	5962.7	6364.8	6336.6	5833.4	4313.3
27.5°	5360.8	5389.0	5273.8	5063.3	4937.6	5272.7	6170.8	6816.2	6815.0	6320.1	4540.2
30°	6082.6	6110.9	5993.3	5782.9	5493.6	5548.9	6350.6	7288.8	7295.9	6822.1	4781.3
32.5°	6839.7	6875.0	6753.9	6483.5	6181.4	6026.2	6603.5	7763.7	7803.8	7404.0	5052.8
35°	7700.3	7704.9	7534.5	7251.2	6903.2	6664.6	7009.0	8296.3	8391.6	8124.7	5397.2
37.5°	8544.3	8578.4	8438.5	7991.8	7672.0	7401.7	7612.0	8961.7	9096.9	9005.2	5847.5
40°	9169.8	9241.5	9221.5	8739.5	8436.2	8243.4	8360.9	9752.8	9924.5	10030.3	6415.3
42.5°	9562.4	9616.6	9708.2	9417.9	9142.8	9174.4	9245.1	10674.6	10886.2	11198.9	7067.7
45°	10012.7	10038.5	10114.9	9986.8	9801.1	10120.9	10183.1	11712.6	11934.8	12455.6	7791.9
47.5°	10562.9	10624.0	10645.2	10527.6	10442.9	10957.9	11087.2	12656.7	12968.2	13801.7	8558.5
50°	11263.5	11280.0	11316.4	11240.1	11155.4	11677.3	11898.4	13647.7	13931.0	15152.5	9314.4
52.5°	11949.0	12007.7	12134.7	12086.5	12052.4	12289.8	12621.4	14541.2	14857.4	16278.7	10069.1
55°	12146.4	12196.9	12635.5	12935.3	13212.7	13044.6	13312.7	15341.8	15683.8	17285.1	10795.6
57.5°	11357.6	11459.9	12219.3	12999.9	14150.9	14217.8	14262.6	16163.5	16470.3	18056.3	11551.6
60°	9363.7	9383.8	10629.9	11968.9	13995.7	15241.8	15649.7	17046.4	17303.9	18774.5	12456.7
62.5°	5955.7	6159.0	7526.3	9416.6	12354.6	15093.7	17327.3	18381.9	18475.9	19636.3	13754.7
65°	2836.7	2968.4	3953.6	5818.1	8948.7	13197.4	18485.4	20797.7	20840.1	21344.5	15488.7
67.5°	1570.6	1634.1	2103.2	3131.9	5231.5	9333.2	18017.4	23659.2	23699.2	23089.1	17010.0
69°	1228.5	1282.6	1651.7	2360.6	3546.9	6708.1	16304.6	24497.4	24616.1	23588.6	17064.0
70°	1042.8	1095.7	1422.5	1993.9	2852.0	5183.3	14513.0	24289.4	24415.1	23541.6	16660.8
72.5°	638.4	668.9	947.6	1403.7	1911.5	2607.5	8949.9	20541.5	20754.2	21594.9	14319.0
75°	430.3	446.8	592.5	968.7	1367.2	1342.5	4649.5	14478.9	14939.7	16798.3	10575.8
77.5°	308.0	323.2	397.4	626.6	958.1	886.4	2105.5	8998.1	9096.9	10075.0	5767.6
80°	175.1	189.3	281.0	372.7	650.1	591.3	837.0	4298.1	4347.4	4320.3	1925.7
82.5°	91.7	103.5	154.0	245.7	417.3	386.8	348.0	1439.0	1446.0	1202.6	422.1
85°	17.6	21.1	76.4	168.1	215.1	168.1	142.2	337.4	344.5	304.5	104.6
87.5°	0.0	1.2	30.6	37.6	42.3	43.5	45.8	65.9	70.5	95.2	28.2
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°	2816.8	2816.8	2816.8	2816.8	2816.8	2816.8	2816.8	2816.8	2816.8	2816.8	2816.8
2.5°	2829.7	2787.4	2706.2	2612.2	2539.3	2467.6	2411.2	2352.4	2331.2	2320.7	2319.5
5°	2857.9	2768.6	2597.0	2420.6	2276.0	2139.6	2042.0	1949.2	1905.7	1885.6	1877.4
7.5°	2904.9	2761.5	2485.3	2216.1	2008.0	1837.5	1702.3	1601.1	1550.7	1529.5	1521.2
10°	2960.2	2752.1	2354.8	1999.8	1734.0	1557.6	1423.7	1323.7	1268.5	1245.0	1233.2
12.5°	3024.8	2735.7	2204.2	1781.0	1500.1	1323.7	1161.5	1038.0	974.6	947.6	934.6
15°	3104.8	2719.2	2046.7	1575.3	1294.4	1079.2	901.7	818.3	805.3	800.6	801.8
17.5°	3183.6	2693.3	1875.1	1372.0	1078.1	843.0	752.4	747.7	750.1	750.1	750.1
20°	3254.1	2634.5	1688.2	1198.0	872.3	711.2	692.4	684.2	678.4	673.6	667.7
22.5°	3309.3	2555.8	1508.3	1025.2	712.4	651.2	621.9	596.0	574.9	560.8	553.7
25°	3347.0	2451.2	1343.8	859.4	640.7	592.5	539.6	496.1	463.2	443.2	434.9
27.5°	3375.2	2338.3	1196.8	719.4	591.3	524.4	455.0	403.3	369.2	351.5	344.5
30°	3395.2	2210.2	1067.5	632.5	536.1	452.6	378.6	328.0	303.3	293.9	289.2
32.5°	3413.9	2067.9	945.1	591.3	484.3	386.8	317.4	278.6	263.3	251.6	248.1
35°	3461.0	1936.2	828.8	547.8	431.5	330.3	272.8	244.5	229.3	222.2	219.8
37.5°	3572.7	1838.7	717.1	503.1	378.6	285.7	238.7	218.6	204.6	197.5	195.2
40°	3752.6	1789.3	623.1	455.0	326.8	251.6	216.3	197.5	182.2	171.7	169.3
42.5°	4017.1	1796.3	557.3	406.8	285.7	224.5	195.2	172.8	156.3	146.9	144.6
45°	4338.0	1848.1	511.4	359.8	251.6	203.4	171.7	148.1	132.8	124.6	122.2
47.5°	4686.0	1931.6	473.8	317.4	224.5	183.4	148.1	123.4	110.5	103.5	102.3
50°	5052.8	2012.6	434.9	276.3	201.0	163.4	124.6	102.3	91.7	85.8	83.5
52.5°	5424.3	2106.7	399.7	238.7	181.0	139.9	103.5	83.5	75.3	70.5	68.2
55°	5823.9	2177.2	365.6	209.2	161.1	118.8	85.8	69.4	62.3	56.5	55.2
57.5°	6294.2	2286.6	330.3	181.0	137.6	98.7	70.5	55.2	49.4	43.5	42.3
60°	6929.0	2414.7	292.7	159.9	112.9	81.1	57.6	44.7	37.6	32.9	31.8
62.5°	7766.1	2556.9	245.7	139.9	91.7	65.9	45.8	35.3	27.0	21.1	21.1
65°	8827.7	2788.6	201.0	117.6	75.3	54.1	35.3	25.9	15.3	9.4	9.4
67.5°	9447.2	2828.6	162.3	96.4	61.1	45.8	29.3	17.6	4.7	1.2	0.0
69°	9248.6	2597.0	137.6	82.3	52.9	43.5	27.0	12.9	2.3	0.0	0.0
70°	8874.7	2374.7	121.1	72.8	48.2	41.2	25.9	9.4	2.3	0.0	0.0
72.5°	7333.5	1690.6	91.7	54.1	35.3	36.4	23.5	5.9	2.3	0.0	0.0
75°	5342.0	1027.5	65.9	37.6	22.4	27.0	16.5	2.3	1.2	0.0	0.0
77.5°	2971.9	484.3	41.2	21.1	14.1	16.5	8.2	0.0	0.0	0.0	0.0
80°	965.2	131.6	18.8	11.7	8.2	9.4	3.5	0.0	0.0	0.0	0.0
82.5°	178.7	37.6	10.6	5.9	2.3	2.3	0.0	0.0	0.0	0.0	0.0
85°	38.8	15.3	5.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.9	4.7	1.2	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)