

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: P651303

Luminaire Tested: **GALN-SA3D-840-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651303  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-840-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11456.9 lumens  
Efficiency: N/A  
Efficacy: 62.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

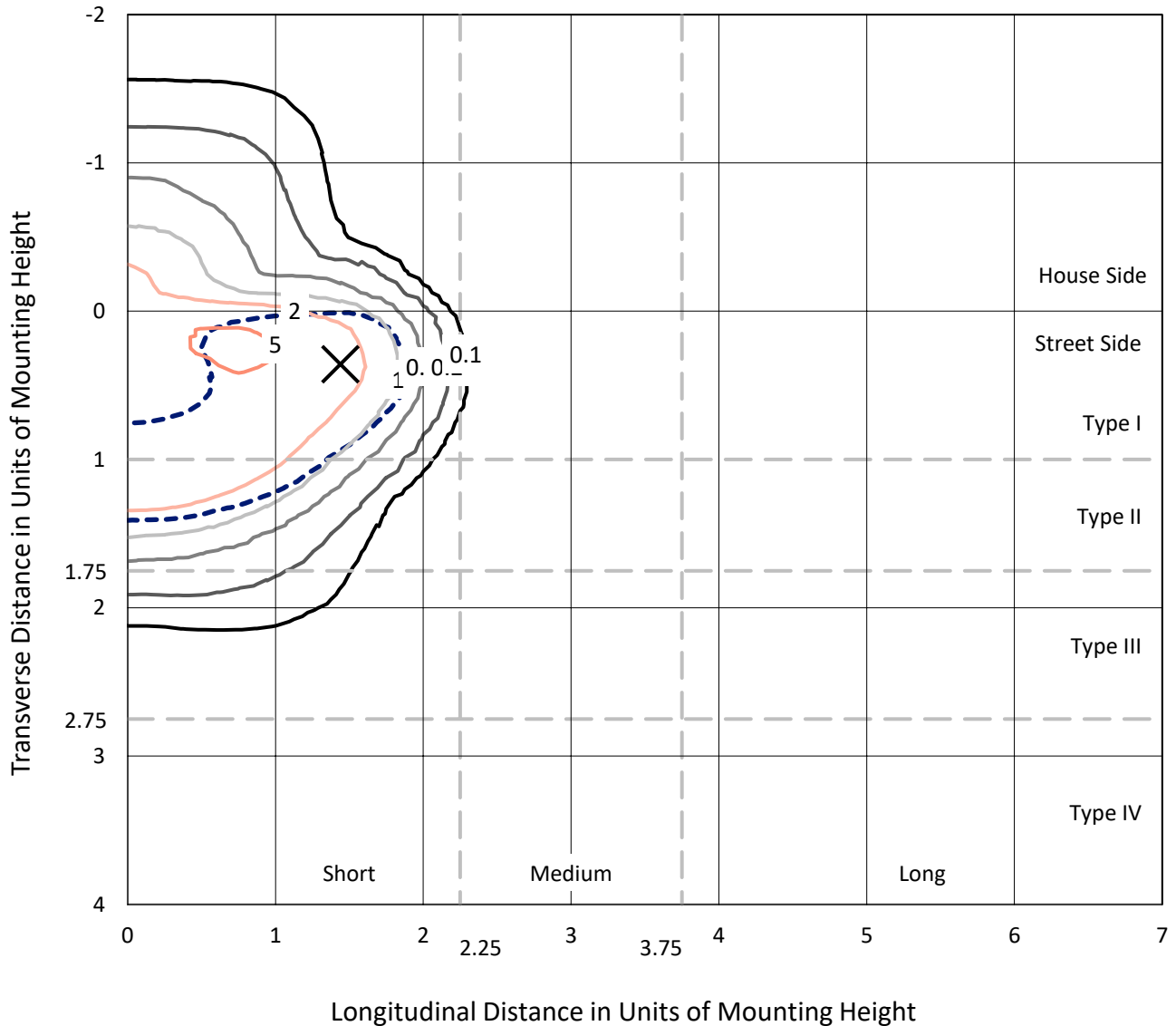
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P651303  
 CATALOG NUMBER: GALN-SA3D-840-U-T2-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

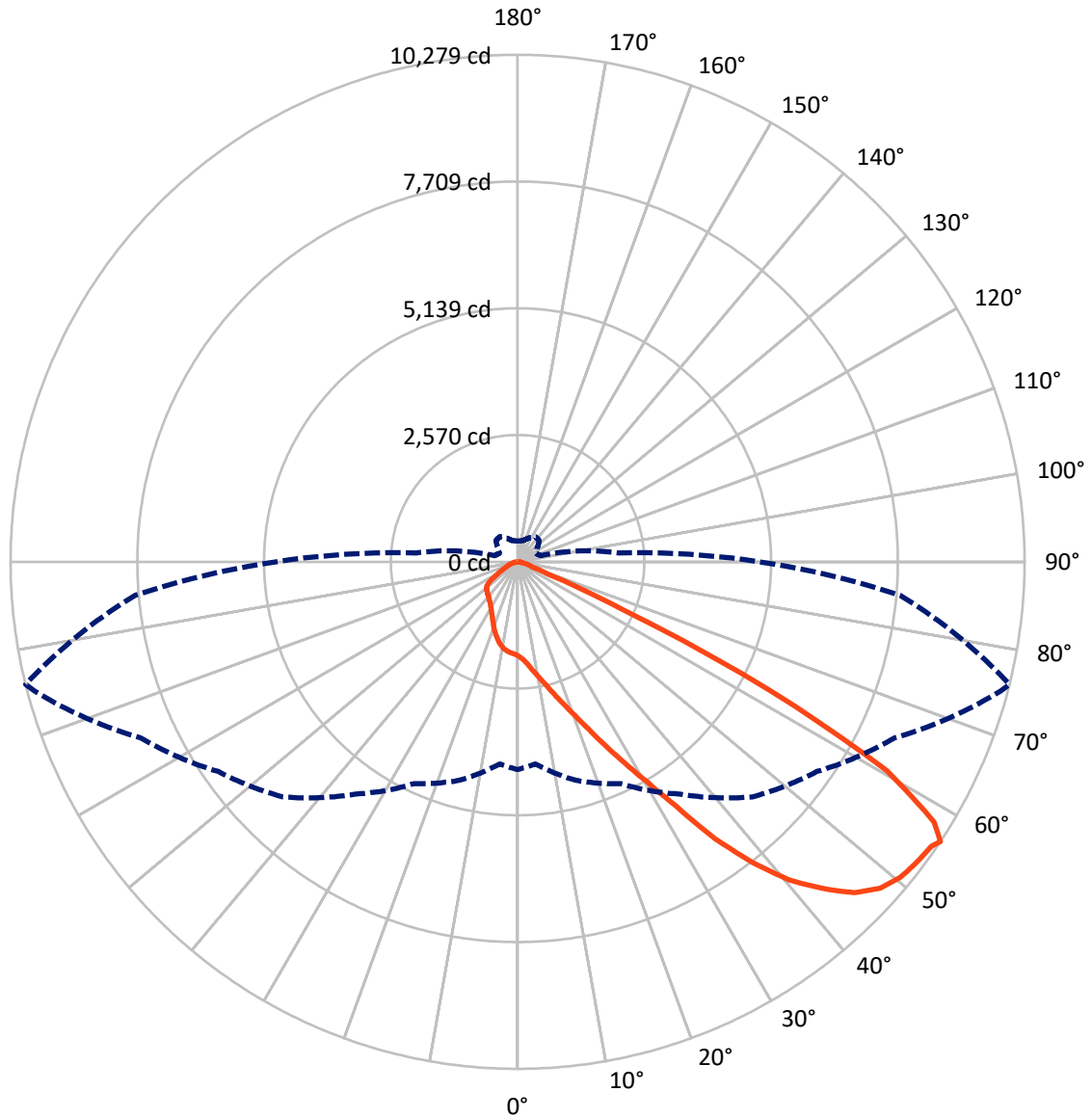
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type II - Short - N/A

REPORT NUMBER: P651303  
CATALOG NUMBER: GALN-SA3D-840-U-T2-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P651303  
 CATALOG NUMBER: GALN-SA3D-840-U-T2-GRSBK

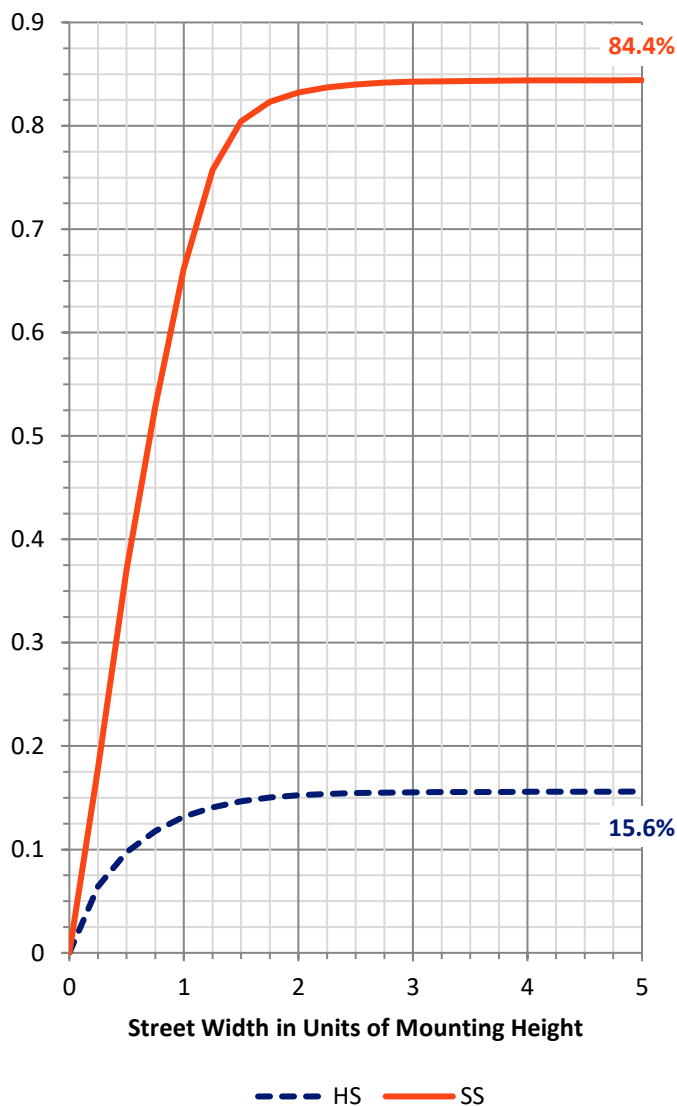
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1799.8	0.0	1799.8
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	9657.1	0.0	9657.1
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	11456.9	0.0	11456.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.1	1.7
10°-20°	617.2	5.4
20°-30°	1119.1	9.8
30°-40°	1929.9	16.8
40°-50°	3135.2	27.4
50°-60°	3304.6	28.8
60°-70°	1009.7	8.8
70°-80°	129.4	1.1
80°-90°	19.7	0.2
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°	11456.9	100.0
0°-180°	11456.9	100.0

**Coefficient of Utilization**



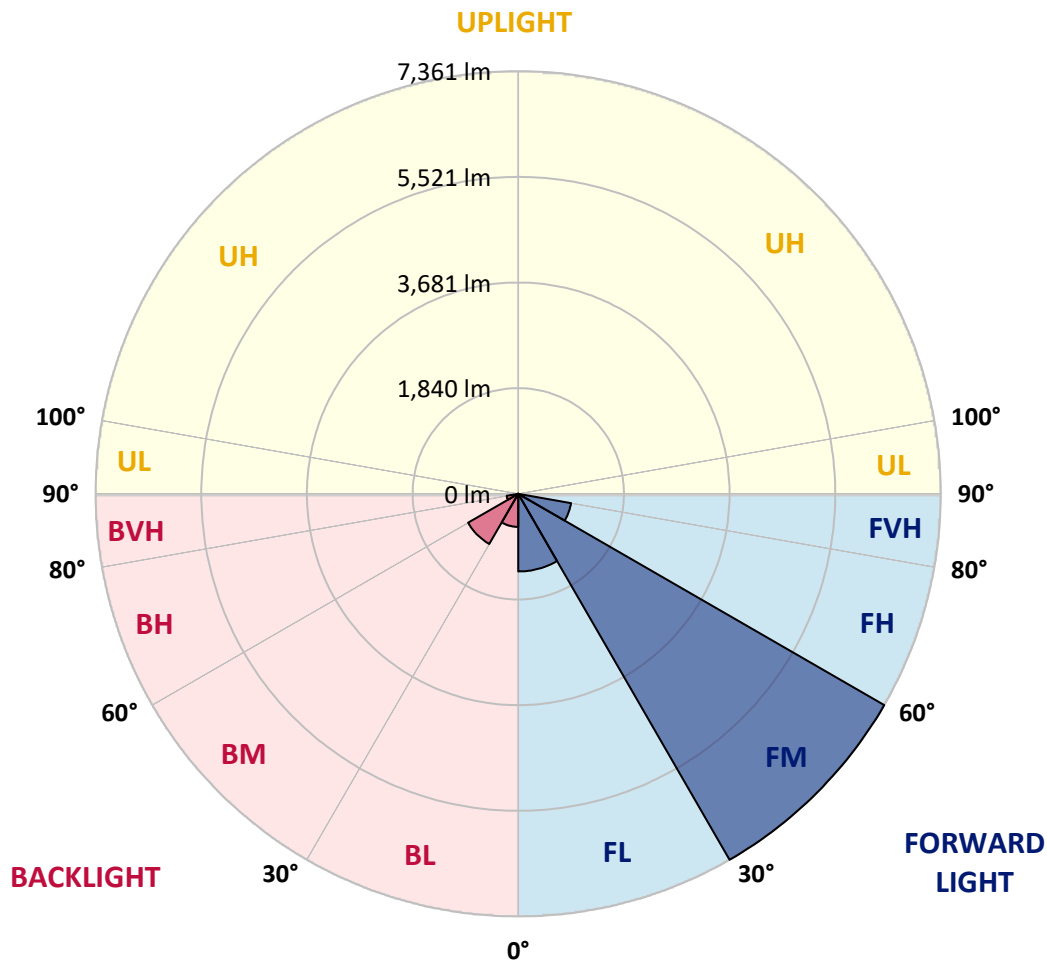
REPORT NUMBER: P651303  
 CATALOG NUMBER: GALN-SA3D-840-U-T2-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1352.6	11.8			
FM (30°-60°)	7361.1	64.3			
FH (60°-80°)	933.8	8.2			G1/1800
FVH (80°-90°)	9.6	0.1			G0/10
BL (0°-30°)	575.8	5.0	B2/1000		
BM (30°-60°)	1008.7	8.8	B2/2500		
BH (60°-80°)	205.3	1.8	B1/500		G1/500
BVH (80°-90°)	10.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





REPORT NUMBER: P651303

CATALOG NUMBER: GALN-SA3D-840-U-T2-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1907.1	1907.1	1907.1	1907.1	1907.1	1907.1	1907.1	1907.1	1907.1	1907.1	1907.1
2.5°	2196.4	2145.6	2147.7	2143.5	2137.2	2114.0	2044.3	2033.7	1987.3	1974.6	1932.4
5°	2460.3	2416.0	2441.3	2403.3	2367.4	2346.3	2232.3	2179.5	2105.5	2078.1	2019.0
7.5°	2625.1	2603.9	2595.5	2597.6	2563.8	2511.1	2460.3	2344.2	2245.0	2223.8	2099.2
10°	2705.3	2692.6	2705.3	2699.0	2713.7	2720.1	2631.4	2561.7	2416.0	2380.1	2185.8
12.5°	2724.3	2749.6	2760.2	2787.7	2823.6	2884.8	2878.5	2783.5	2589.2	2565.9	2318.8
15°	2770.8	2791.9	2781.4	2825.7	2893.3	2996.7	3051.7	3036.9	2827.8	2785.6	2473.0
17.5°	2813.1	2775.0	2810.9	2899.6	2967.2	3125.6	3258.6	3319.8	3087.6	3039.0	2614.5
20°	2870.1	2859.5	2853.2	2897.5	3017.8	3229.0	3493.0	3604.9	3379.0	3328.3	2817.3
22.5°	3043.2	3045.3	3041.1	2975.6	3062.2	3300.8	3697.9	3974.6	3727.5	3685.3	3047.4
25°	3271.3	3243.8	3222.7	3169.9	3159.4	3366.4	3904.8	4426.5	4145.6	4116.0	3296.6
27.5°	3512.0	3512.0	3448.7	3400.2	3332.5	3528.9	4094.9	4865.8	4650.4	4610.2	3514.2
30°	3773.9	3788.7	3780.3	3676.8	3634.5	3706.4	4289.2	5427.6	5229.0	5178.3	3873.1
32.5°	4160.4	4128.7	4164.6	4078.0	3953.5	4016.8	4595.5	5930.1	5980.9	5909.0	4344.1
35°	4671.5	4652.5	4629.2	4487.7	4339.9	4390.6	5028.3	6549.0	6924.9	6889.0	4819.3
37.5°	5129.8	5119.2	5100.2	5003.0	4832.0	4893.2	5520.4	7193.1	7845.6	7727.4	5490.9
40°	5611.2	5668.3	5607.0	5520.4	5364.2	5499.3	6099.1	7575.3	8620.7	8477.1	6004.1
42.5°	6263.9	6219.4	6246.9	6088.5	6004.1	6151.9	6679.9	7957.5	9222.6	9051.5	6549.0
45°	6958.6	6960.8	6886.9	6836.2	6616.5	6777.0	7036.8	8168.7	9701.9	9568.9	6960.8
47.5°	7404.2	7402.1	7482.4	7562.6	7336.6	7178.3	7279.6	8369.4	9949.0	9887.8	7110.7
50°	7334.5	7355.6	7459.2	7759.1	7877.3	7664.0	7507.7	8310.3	10061.0	10054.7	7239.5
52.5°	6380.0	6449.7	6622.9	7055.8	7651.3	7915.3	7746.4	8420.1	10115.9	10126.5	7431.7
55°	4857.3	4895.3	5224.8	5750.7	6409.5	7313.4	7651.3	8506.6	10158.1	10177.1	7664.0
56°	4213.2	4111.8	4587.0	4960.8	5748.6	6736.9	7410.6	8439.1	10132.8	10278.5	7780.2
57.5°	3180.5	3112.9	3497.3	3964.0	4722.1	5765.4	6663.0	8120.2	9961.7	9959.6	7613.3
60°	1934.5	1866.9	2162.5	2437.1	2861.6	3550.0	4502.5	6466.5	8422.2	8599.6	6164.5
62.5°	1151.0	1193.2	1484.6	1651.5	1788.7	1860.5	2329.4	3843.6	5619.7	5746.4	3824.6
65°	766.6	781.4	1001.0	1275.5	1336.9	1064.4	948.2	1556.4	2437.1	2359.0	1577.5
67.5°	473.1	506.9	671.5	958.8	1062.3	777.2	449.9	580.8	671.5	671.5	456.2
70°	287.2	304.1	447.7	652.5	728.6	500.5	327.3	327.3	323.1	316.8	272.4
72.5°	137.3	147.8	228.1	335.8	342.1	264.0	253.4	276.7	270.3	268.2	226.0
75°	59.1	63.3	80.2	105.6	120.3	111.9	154.2	198.5	204.9	198.5	162.6
77.5°	19.0	21.1	29.6	38.0	40.1	48.6	65.4	82.3	95.0	88.7	80.2
80°	2.1	4.2	8.4	19.0	29.6	38.0	48.6	54.9	61.2	61.2	57.0
82.5°	2.1	2.1	8.4	16.9	27.4	35.9	46.4	52.8	61.2	63.3	59.1
85°	0.0	2.1	6.3	14.8	23.2	23.2	21.1	21.1	14.8	14.8	14.8
87.5°	0.0	0.0	2.1	2.1	2.1	4.2	4.2	4.2	4.2	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P651303

CATALOG NUMBER: GALN-SA3D-840-U-T2-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1907.1	1907.1	1907.1	1907.1	1907.1	1907.1	1907.1	1907.1	1907.1	1907.1	1907.1
2.5°	1924.0	1919.7	1862.6	1826.7	1807.7	1769.7	1746.5	1729.6	1717.0	1702.2	1704.3
5°	1949.3	1934.5	1839.4	1774.0	1695.9	1653.6	1617.7	1588.1	1569.1	1564.9	1556.4
7.5°	2021.1	1943.0	1799.3	1681.1	1581.8	1539.5	1507.9	1488.9	1497.3	1478.3	1493.1
10°	2076.0	1959.8	1750.7	1579.7	1480.4	1448.7	1431.9	1446.6	1467.7	1459.3	1448.7
12.5°	2143.5	1976.7	1672.6	1482.5	1389.6	1366.4	1396.0	1423.4	1465.6	1482.5	1461.4
15°	2219.6	1995.7	1573.3	1370.6	1311.5	1330.5	1381.2	1429.7	1472.0	1493.1	1505.8
17.5°	2312.5	1989.4	1476.2	1281.9	1237.5	1292.4	1353.7	1398.1	1461.4	1493.1	1484.6
20°	2399.1	1968.3	1368.5	1193.2	1195.3	1246.0	1296.7	1368.5	1402.3	1444.5	1429.7
22.5°	2481.5	1930.3	1256.5	1132.0	1132.0	1210.1	1235.4	1281.9	1311.5	1332.6	1330.5
25°	2597.6	1858.4	1163.6	1072.9	1098.2	1148.9	1170.0	1184.8	1172.1	1189.0	1191.1
27.5°	2679.9	1784.5	1087.6	1020.0	1066.5	1104.5	1098.2	1089.8	1060.2	1037.0	1051.8
30°	2768.7	1698.0	1022.2	984.1	1009.5	1043.3	1017.9	992.5	946.1	908.1	910.2
32.5°	2895.4	1657.9	965.1	941.9	975.7	979.9	952.4	914.4	868.0	832.1	830.0
35°	3131.9	1632.5	916.5	914.4	920.8	922.9	895.4	849.0	830.0	800.4	811.0
37.5°	3368.5	1619.9	882.8	874.3	872.2	874.3	842.6	798.3	834.2	832.1	836.3
40°	3670.5	1676.9	834.2	823.6	825.8	825.8	785.6	773.0	836.3	842.6	844.8
42.5°	3976.7	1748.6	802.5	768.8	777.2	777.2	756.1	741.3	785.6	743.4	737.1
45°	4242.8	1854.2	768.8	713.8	734.9	745.5	739.2	713.8	686.3	614.5	614.5
47.5°	4329.4	1947.2	728.6	661.0	677.9	724.4	705.3	652.5	604.0	544.9	540.7
50°	4481.4	2048.5	696.9	599.8	635.7	692.7	673.7	620.9	566.0	523.8	525.9
52.5°	4637.7	2164.6	637.8	528.0	572.3	667.3	667.3	608.2	523.8	494.2	490.0
55°	4872.1	2160.4	532.2	432.9	511.1	629.3	639.9	544.9	468.9	445.6	445.6
56°	4905.9	2063.3	479.4	405.4	483.7	618.8	620.9	528.0	447.7	422.4	422.4
57.5°	4652.5	1862.6	420.2	371.7	449.9	599.8	601.9	513.2	430.8	394.9	390.7
60°	3579.6	1260.8	350.6	331.6	407.6	540.7	551.2	466.8	378.0	350.6	348.4
62.5°	2021.1	699.0	308.3	299.9	350.6	460.4	492.1	407.6	321.0	306.2	310.4
65°	922.9	384.3	259.8	242.9	283.0	354.8	397.0	335.8	264.0	247.1	247.1
67.5°	337.9	261.9	221.8	192.2	198.5	230.2	257.7	217.5	175.3	150.0	156.3
70°	240.8	219.7	194.3	166.9	154.2	150.0	147.8	122.4	86.6	67.6	71.8
72.5°	194.3	181.7	162.6	141.5	120.3	101.3	86.6	63.3	40.1	27.4	25.3
75°	139.4	133.0	118.2	101.3	84.4	71.8	59.1	40.1	21.1	10.6	10.6
77.5°	71.8	71.8	69.7	63.3	52.8	42.2	33.8	23.2	12.7	4.2	4.2
80°	54.9	59.1	61.2	54.9	48.6	38.0	27.4	16.9	8.4	2.1	2.1
82.5°	52.8	61.2	65.4	57.0	48.6	35.9	27.4	16.9	8.4	2.1	2.1
85°	12.7	12.7	19.0	21.1	27.4	29.6	23.2	14.8	6.3	2.1	2.1
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	2.1	2.1	2.1	2.1	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)