

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: P647351

Luminaire Tested: **GALN-SA3D-835-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647351  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-835-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10798.4 lumens  
Efficiency: N/A  
Efficacy: 58.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

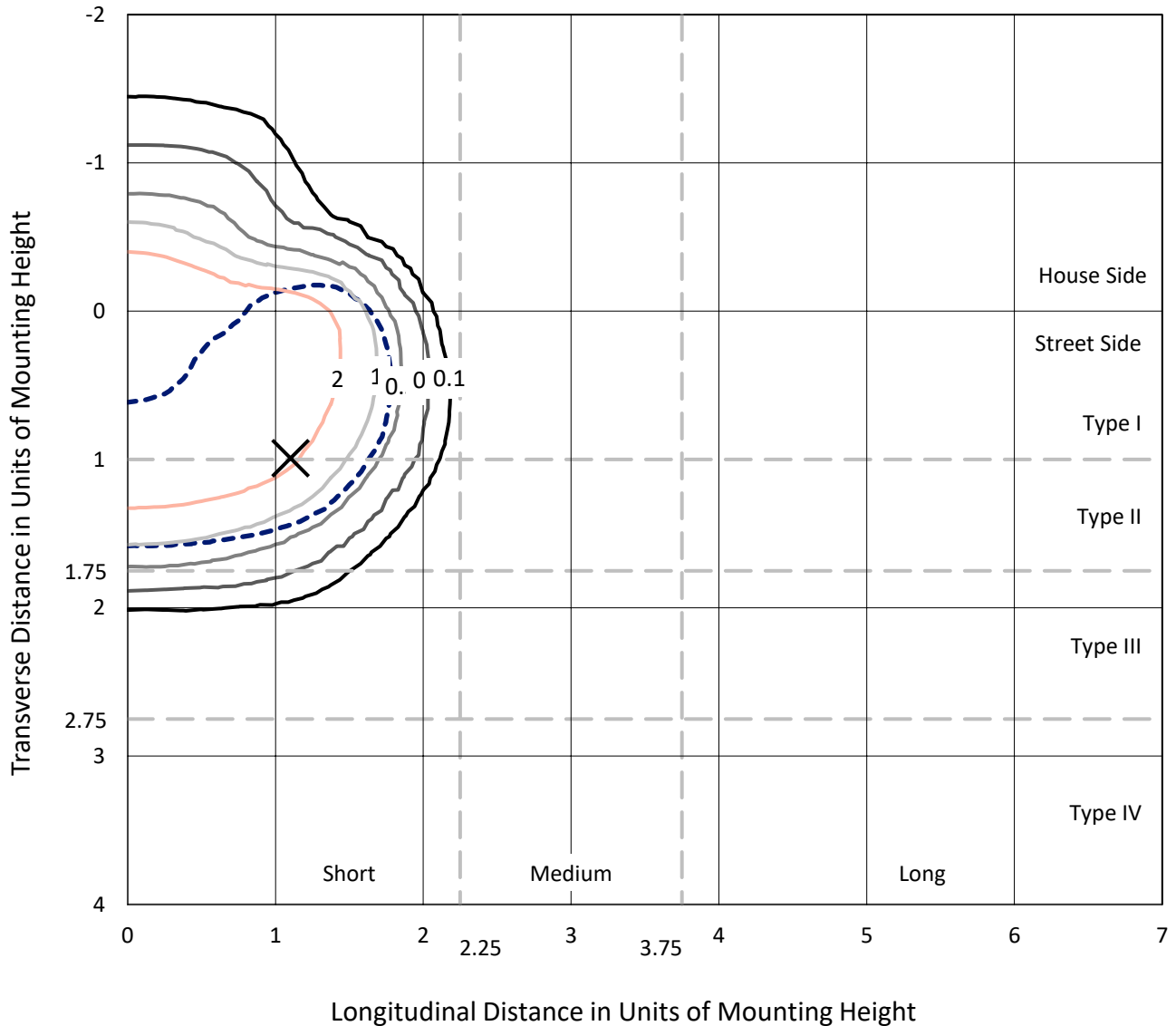
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P647351  
 CATALOG NUMBER: GALN-SA3D-835-U-T3-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

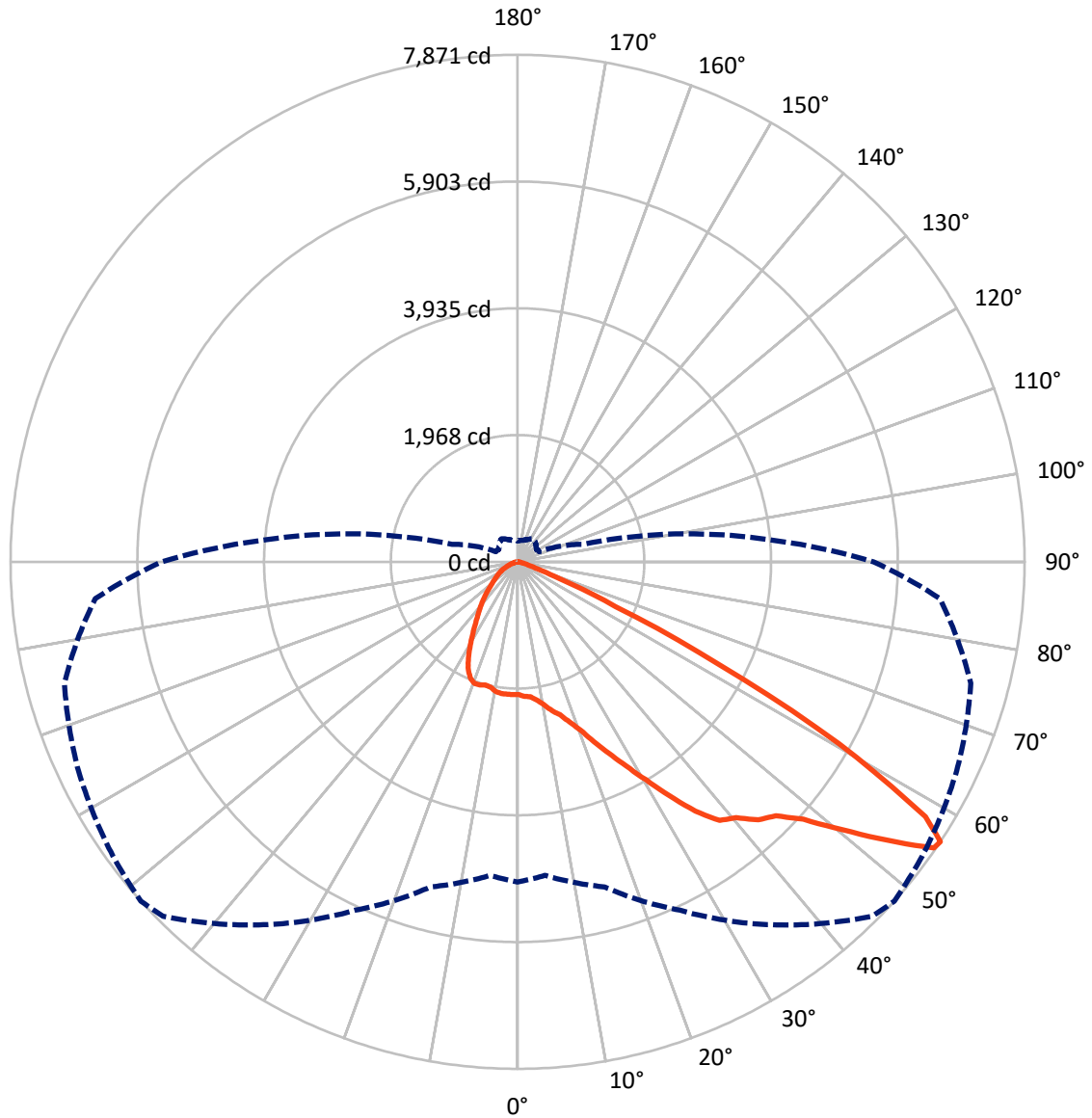
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P647351  
CATALOG NUMBER: GALN-SA3D-835-U-T3-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P647351  
 CATALOG NUMBER: GALN-SA3D-835-U-T3-GRSBK

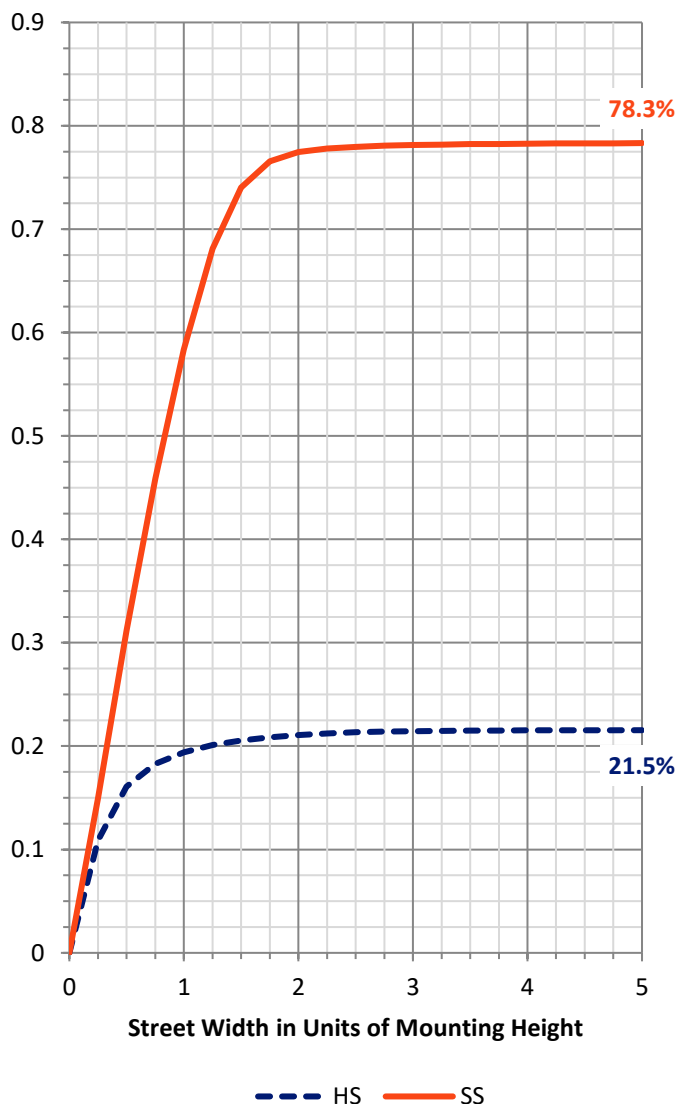
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2348.4	0.0	2348.4
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	8449.9	0.0	8449.9
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	10798.4	0.0	10798.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.9	1.9
10°-20°	642.1	5.9
20°-30°	1164.6	10.8
30°-40°	1829.3	16.9
40°-50°	2668.7	24.7
50°-60°	3215.2	29.8
60°-70°	941.4	8.7
70°-80°	119.4	1.1
80°-90°	16.8	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°	10798.4	100.0
0°-180°	10798.4	100.0

**Coefficient of Utilization**

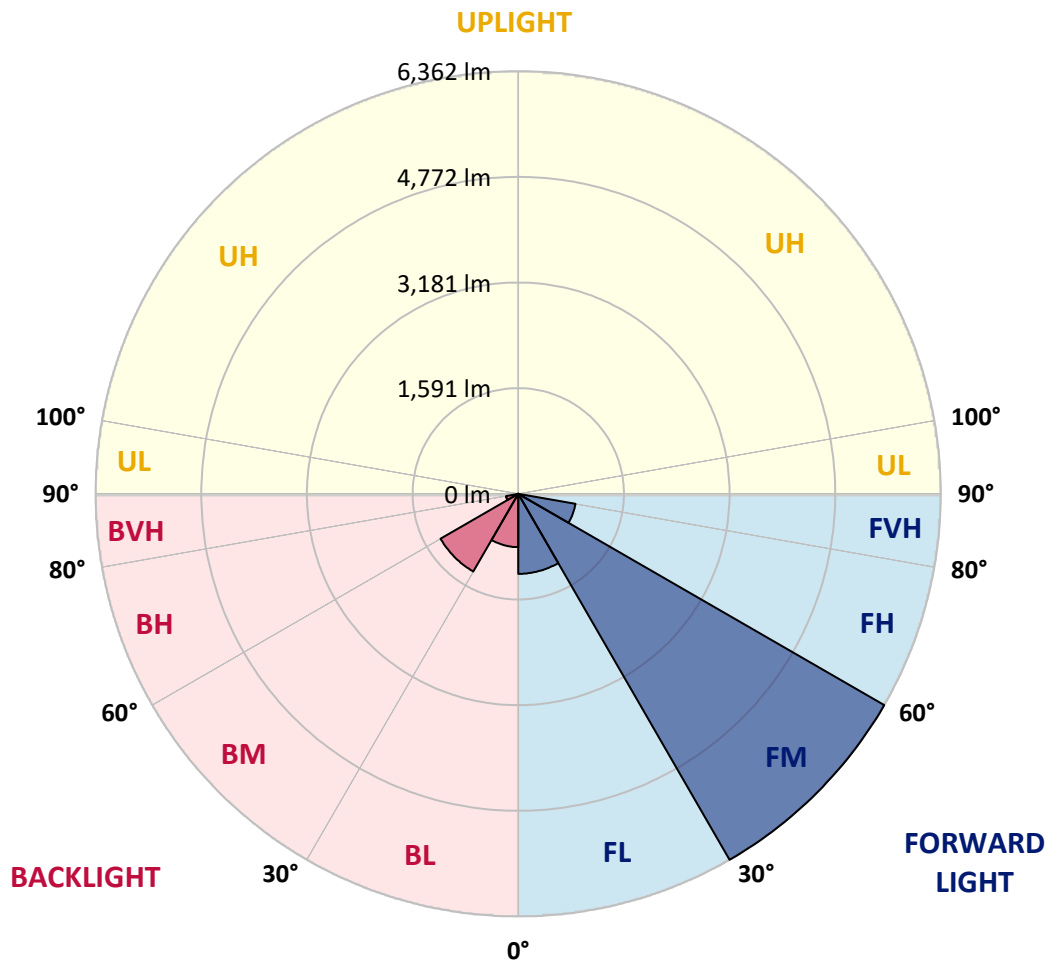


REPORT NUMBER: P647351  
 CATALOG NUMBER: GALN-SA3D-835-U-T3-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1204.9	11.2			
FM (30°-60°)	6362.4	58.9			
FH (60°-80°)	874.2	8.1			G1/1800
FVH (80°-90°)	8.4	0.1			G0/10
BL (0°-30°)	802.7	7.4	B2/1000		
BM (30°-60°)	1350.8	12.5	B2/2500		
BH (60°-80°)	186.6	1.7	B1/500		G1/500
BVH (80°-90°)	8.3	0.1			G0/10
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: P647351

CATALOG NUMBER: GALN-SA3D-835-U-T3-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2062.5	2062.5	2062.5	2062.5	2062.5	2062.5	2062.5	2062.5	2062.5	2062.5	2062.5
2.5°	2099.8	2090.0	2090.0	2074.3	2092.0	2084.1	2090.0	2070.3	2090.0	2060.5	2084.1
5°	2109.7	2111.7	2103.8	2113.6	2113.6	2125.4	2105.7	2123.4	2133.3	2111.7	2101.8
7.5°	2160.8	2164.8	2162.8	2154.9	2170.6	2168.7	2166.7	2152.9	2156.9	2149.0	2137.2
10°	2261.1	2259.1	2268.9	2249.2	2237.5	2251.2	2255.2	2233.5	2217.8	2211.9	2174.5
12.5°	2406.6	2383.0	2369.2	2349.5	2355.4	2335.8	2371.2	2333.8	2326.0	2290.6	2253.2
15°	2524.5	2520.6	2522.6	2491.1	2455.7	2463.6	2463.6	2443.9	2432.2	2388.9	2335.8
17.5°	2766.3	2683.8	2701.5	2662.2	2632.7	2630.7	2613.0	2616.9	2585.5	2495.0	2414.5
20°	2955.1	2919.7	2892.2	2825.4	2780.1	2793.9	2786.1	2766.3	2756.6	2638.6	2524.5
22.5°	3124.2	3136.0	3090.8	3073.1	3010.2	3016.0	3031.8	3014.1	2939.4	2817.5	2648.4
25°	3362.1	3348.3	3287.4	3265.7	3206.8	3228.4	3289.4	3275.6	3228.4	3008.2	2744.7
27.5°	3643.3	3596.1	3607.9	3509.6	3452.6	3513.5	3586.2	3655.0	3521.4	3232.4	2858.8
30°	3841.9	3792.7	3788.8	3784.9	3771.1	3841.9	3926.4	3989.3	3881.2	3456.5	3047.5
32.5°	3940.1	3952.0	3985.4	3973.6	4093.5	4239.0	4327.5	4417.9	4282.3	3822.2	3297.2
35°	4201.7	4127.0	4201.7	4209.5	4333.4	4642.1	4754.1	4970.4	4937.0	4339.3	3602.0
37.5°	4355.0	4349.1	4359.0	4433.7	4553.6	4935.0	5094.3	5261.4	5198.5	4649.9	3981.5
40°	4608.7	4624.4	4622.4	4679.4	4811.1	5155.3	5220.1	5355.8	5361.7	5080.5	4539.8
42.5°	5015.7	4952.7	4911.4	4970.4	5155.3	5345.9	5475.8	5448.2	5642.8	5603.5	5257.5
45°	5381.3	5418.7	5357.8	5456.1	5522.9	5625.2	5621.2	5680.2	5927.9	6114.8	5798.2
47.5°	5723.5	5747.1	5776.6	5843.4	5988.9	6004.6	5971.2	5945.6	6287.7	6480.4	6216.9
50°	5927.9	5949.5	6087.2	6207.2	6478.5	6513.9	6533.5	6468.6	6700.6	6722.3	6612.1
52.5°	5872.9	5896.5	6089.2	6484.3	6916.9	7241.3	7182.4	7072.2	7058.5	7143.0	6977.9
55°	5385.3	5363.6	5629.1	6244.5	7054.5	7833.1	7841.0	7725.0	7502.9	7445.8	6922.8
56°	4970.4	4885.8	5224.0	5967.2	6877.6	7782.0	7870.5	7746.6	7538.2	7282.6	6582.7
57.5°	4071.9	4152.5	4488.7	5104.1	6266.1	7414.4	7465.4	7436.0	7278.7	6850.1	5792.2
60°	2245.3	2386.9	2683.8	3436.8	4461.2	5690.1	5731.3	5971.2	6000.7	5245.7	3985.4
62.5°	953.6	937.9	1246.5	1801.0	2540.3	3434.9	3511.5	3757.3	3802.6	3023.9	1999.5
65°	387.4	409.0	564.3	906.4	1342.8	1565.1	1673.2	1753.8	1903.2	1248.5	737.3
67.5°	255.6	253.6	332.3	517.1	723.6	698.0	698.0	737.3	682.2	509.3	318.5
70°	182.8	188.8	237.9	357.8	450.2	334.3	320.5	306.7	348.0	336.2	257.5
72.5°	120.0	127.8	159.3	214.3	234.0	182.8	182.8	220.2	287.0	271.3	210.4
75°	78.6	80.6	98.3	123.9	116.0	94.4	104.2	147.4	208.4	200.5	149.4
77.5°	53.1	55.0	66.9	80.6	64.9	53.1	57.0	74.7	102.3	102.3	78.6
80°	19.7	21.6	27.6	25.5	29.5	37.3	41.3	51.1	60.9	60.9	53.1
82.5°	0.0	2.0	5.9	13.8	21.6	29.5	33.4	39.3	45.3	51.1	49.2
85°	0.0	2.0	5.9	9.9	15.7	17.7	19.7	13.8	11.8	11.8	9.9
87.5°	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	3.9	2.0	2.0
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: P647351

CATALOG NUMBER: GALN-SA3D-835-U-T3-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2062.5	2062.5	2062.5	2062.5	2062.5	2062.5	2062.5	2062.5	2062.5	2062.5	2062.5
2.5°	2062.5	2060.5	2060.5	2054.6	2066.4	2060.5	2064.5	2062.5	2036.9	2056.6	2042.8
5°	2084.1	2097.9	2076.3	2072.3	2056.6	2062.5	2062.5	2042.8	2060.5	2058.6	2054.6
7.5°	2139.2	2115.6	2092.0	2068.4	2064.5	2058.6	2036.9	2029.1	2042.8	2027.1	2050.7
10°	2162.8	2166.7	2131.3	2099.8	2070.3	2029.1	1999.5	1981.9	1960.2	1983.8	1997.6
12.5°	2270.9	2231.6	2170.6	2121.5	2021.2	1979.9	1950.5	1942.5	1979.9	1987.8	1974.0
15°	2308.3	2302.3	2223.7	2113.6	2009.4	1960.2	1966.1	1950.5	1954.4	1934.7	1938.6
17.5°	2384.9	2318.1	2225.7	2088.0	2007.5	1995.6	1960.2	1897.4	1862.0	1846.2	1859.9
20°	2469.5	2404.6	2270.9	2097.9	2025.2	1993.7	1877.6	1801.0	1728.2	1688.9	1690.9
22.5°	2544.2	2463.6	2251.2	2101.8	2040.9	1911.1	1771.5	1620.1	1529.7	1468.8	1470.7
25°	2634.6	2520.6	2259.1	2109.7	1999.5	1779.4	1578.8	1431.3	1323.2	1281.9	1295.7
27.5°	2685.8	2556.0	2302.3	2127.4	1891.4	1592.5	1376.3	1238.7	1175.8	1156.1	1154.1
30°	2839.2	2634.6	2355.4	2092.0	1710.5	1392.0	1191.5	1106.9	1046.0	1028.3	1032.2
32.5°	3067.2	2778.2	2424.2	1999.5	1525.8	1213.1	1071.5	1008.7	951.6	918.2	914.2
35°	3257.9	3023.9	2497.0	1856.0	1311.4	1075.5	987.0	908.4	821.8	784.5	774.7
37.5°	3621.6	3301.1	2481.2	1639.8	1106.9	973.3	896.5	800.2	725.5	674.4	668.5
40°	4105.3	3625.6	2404.6	1376.3	955.6	882.8	800.2	707.8	615.4	572.1	568.2
42.5°	4693.2	4022.7	2265.0	1108.9	804.1	792.4	717.6	611.4	528.9	497.4	499.4
45°	5171.0	4362.9	2123.4	890.7	692.1	703.9	639.0	538.7	481.7	456.2	456.2
47.5°	5595.6	4592.9	1970.1	735.3	587.9	615.4	558.4	499.4	450.2	430.6	426.7
50°	6004.6	4826.9	1816.7	595.7	501.4	528.9	523.0	475.8	436.5	412.9	414.8
52.5°	6260.2	4864.2	1622.1	487.6	438.5	469.9	489.6	446.3	403.1	389.3	385.4
55°	5947.6	4382.5	1258.4	401.1	371.6	412.9	450.2	401.1	367.7	344.1	342.1
56°	5526.8	3918.5	1051.9	369.7	352.0	397.1	436.5	383.4	346.0	332.3	322.4
57.5°	4679.4	3206.8	776.7	328.3	326.4	369.7	414.8	365.7	322.4	310.6	310.6
60°	2917.8	1804.9	469.9	275.2	283.1	328.3	373.6	326.4	287.0	287.0	292.9
62.5°	1329.1	751.1	285.1	234.0	243.8	283.1	332.3	295.0	273.3	295.0	298.9
65°	452.2	324.4	206.5	186.7	192.7	234.0	285.1	298.9	296.9	310.6	318.5
67.5°	253.6	208.4	173.0	155.3	151.4	173.0	234.0	298.9	287.0	281.2	285.1
70°	214.3	177.0	153.4	137.7	131.7	139.6	180.9	226.1	202.5	196.6	192.7
72.5°	173.0	147.4	133.7	123.9	106.2	90.4	82.6	86.5	96.3	102.3	112.0
75°	121.9	112.0	112.0	100.3	76.7	57.0	45.3	37.3	25.5	17.7	19.7
77.5°	68.8	68.8	70.8	60.9	49.2	37.3	27.6	19.7	9.9	3.9	2.0
80°	47.2	51.1	55.0	49.2	41.3	33.4	23.6	13.8	5.9	0.0	0.0
82.5°	47.2	53.1	57.0	49.2	41.3	31.5	23.6	13.8	5.9	2.0	0.0
85°	9.9	11.8	13.8	15.7	23.6	23.6	17.7	11.8	5.9	2.0	0.0
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	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)