

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: P647570

Luminaire Tested: **GALN-SA7D-835-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647570  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7D-835-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42430 lumens  
Efficiency: N/A  
Efficacy: 98.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5

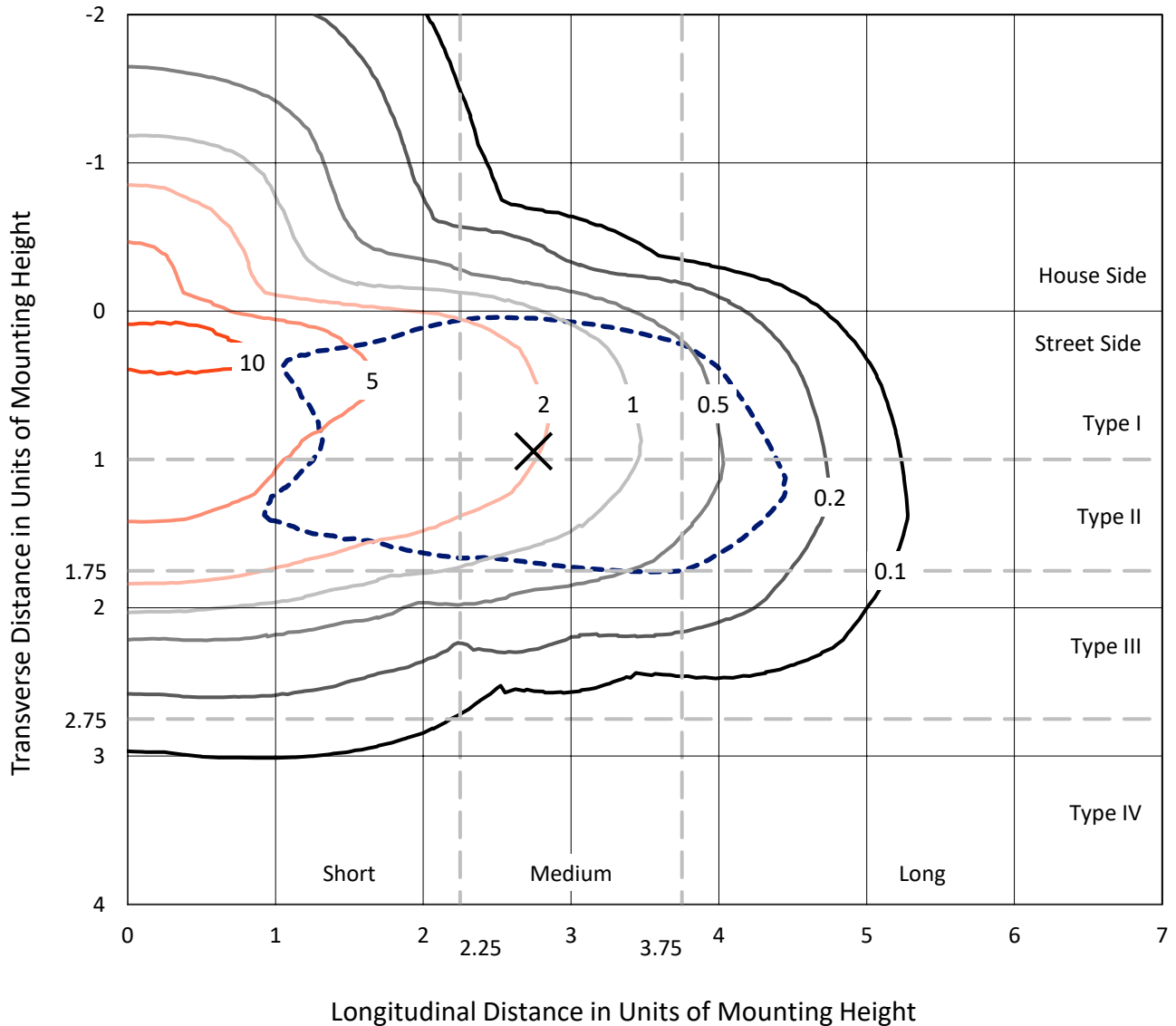
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

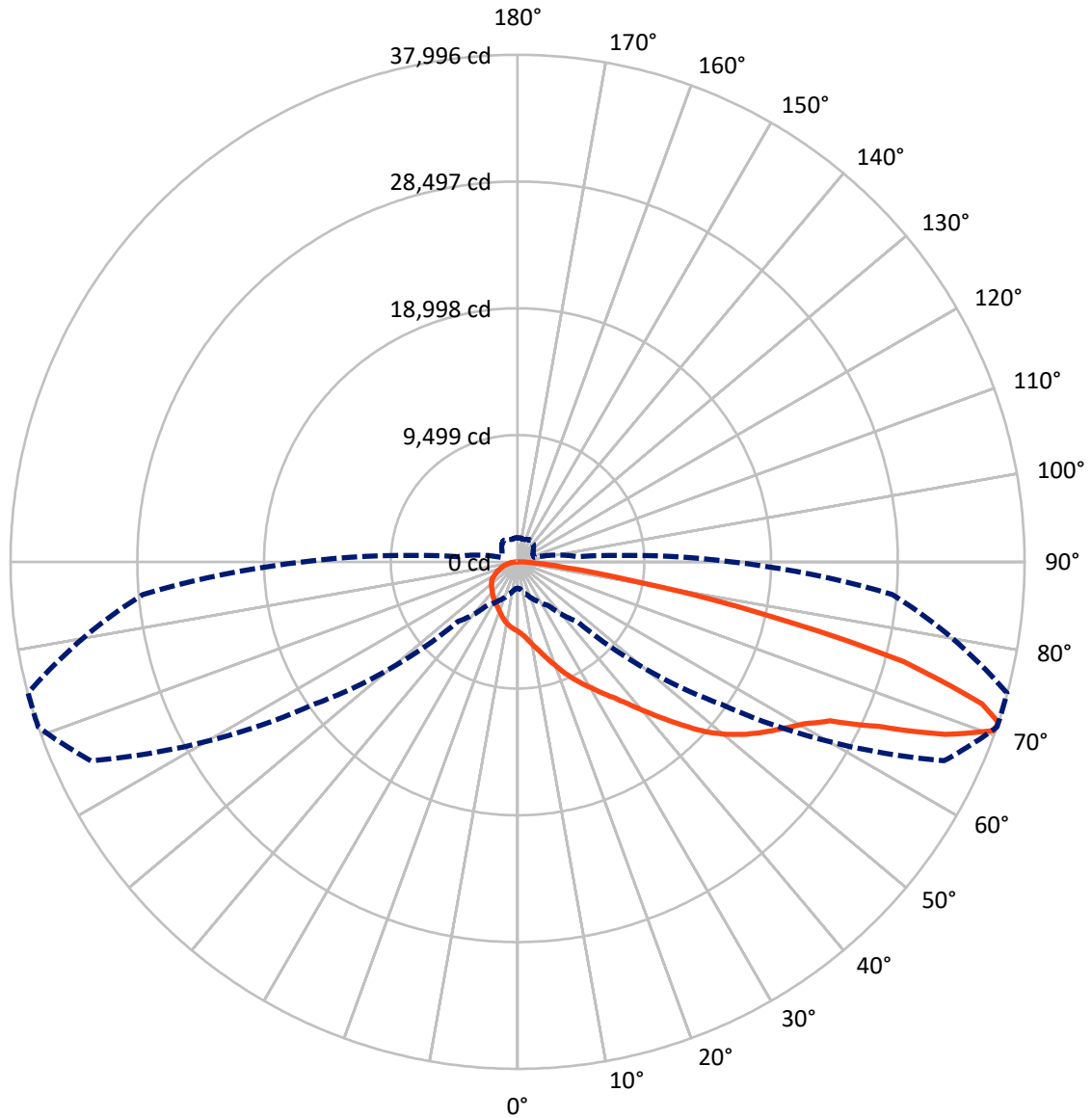
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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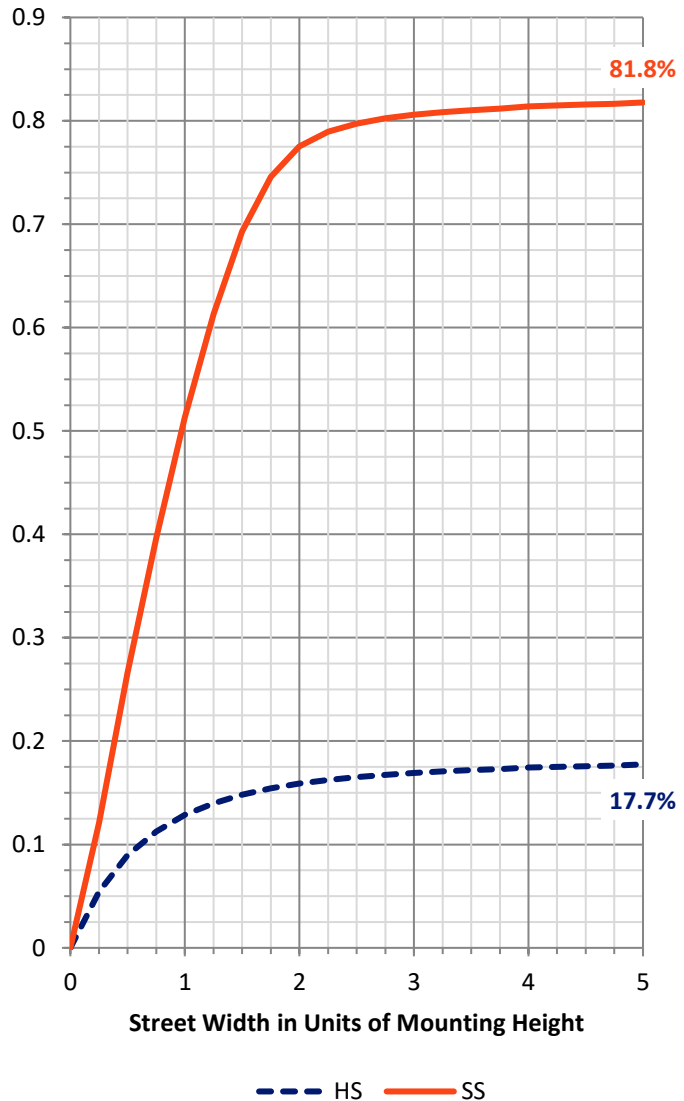
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7630.9	0.0	7630.9
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	34799.1	0.0	34799.1
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	42430.0	0.0	42430.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	522.9	1.2
10°-20°	1698.7	4.0
20°-30°	2968.7	7.0
30°-40°	4415.5	10.4
40°-50°	6505.7	15.3
50°-60°	9108.1	21.5
60°-70°	10187.1	24.0
70°-80°	6222.7	14.7
80°-90°	800.5	1.9
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°	42430.0	100.0
0°-180°	42430.0	100.0

**Coefficient of Utilization**

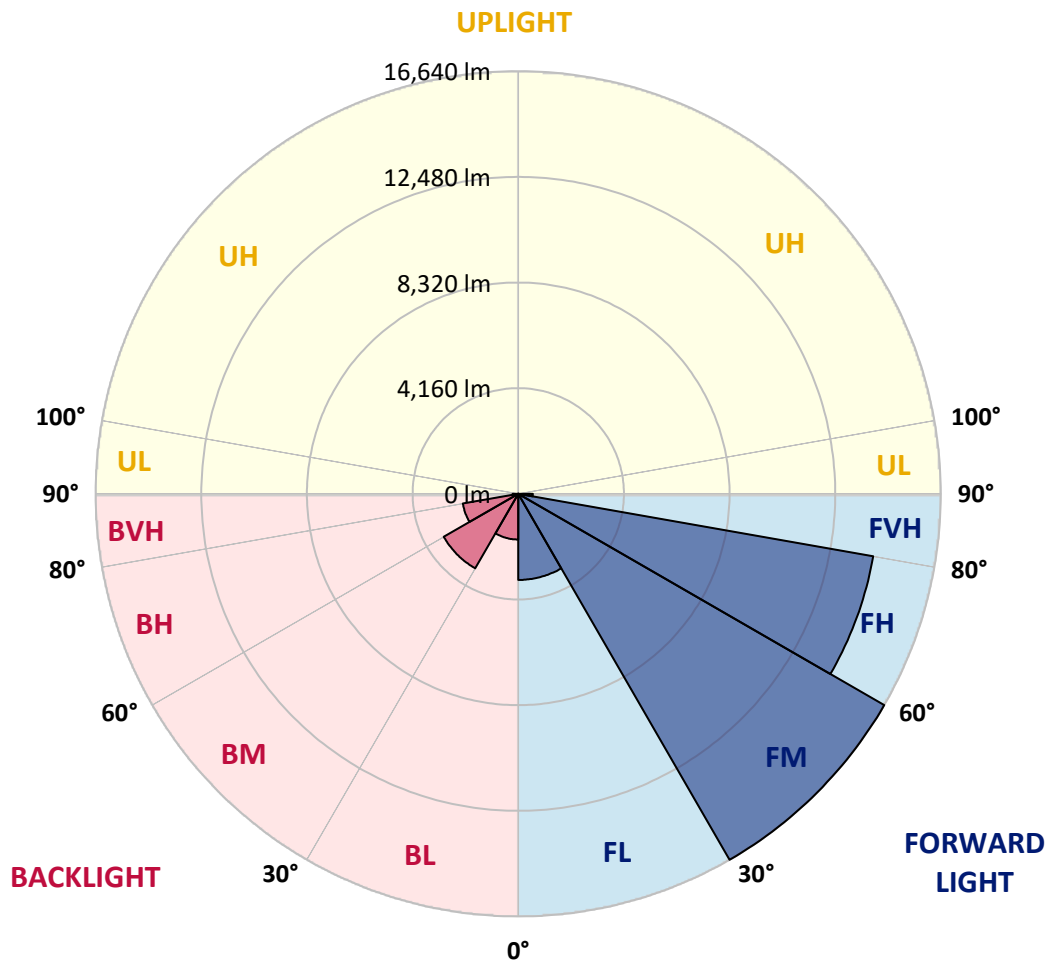


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3390.2	8.0			
FM (30°-60°)	16640.2	39.2			
FH (60°-80°)	14192.7	33.4			G5
FVH (80°-90°)	576.0	1.4			G4/750
BL (0°-30°)	1800.1	4.2	B3/2500		
BM (30°-60°)	3389.2	8.0	B3/5000		
BH (60°-80°)	2217.1	5.2	B3/2500		G3/2500
BVH (80°-90°)	224.5	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	5207.4	5207.4	5207.4	5207.4	5207.4	5207.4	5207.4	5207.4	5207.4	5207.4	5207.4
2.5°	5781.1	5753.2	5755.4	5715.8	5664.5	5608.6	5529.2	5459.3	5403.3	5370.7	5275.1
5°	6406.1	6378.2	6343.2	6256.9	6219.5	6082.0	5907.0	5748.5	5627.2	5559.6	5368.3
7.5°	6912.2	6905.2	6895.8	6846.9	6751.3	6560.1	6410.8	6135.6	5956.0	5827.8	5501.3
10°	7224.7	7236.3	7243.3	7252.6	7213.0	7112.7	6907.5	6560.1	6331.5	6168.2	5673.9
12.5°	7383.2	7394.9	7434.5	7520.8	7574.4	7562.8	7394.9	7054.4	6739.6	6525.1	5858.1
15°	7481.2	7499.8	7569.8	7684.0	7863.7	7977.9	7896.3	7581.5	7236.3	6982.1	6077.3
17.5°	7588.4	7609.4	7686.4	7849.7	8085.2	8332.4	8421.0	8150.5	7775.0	7471.9	6322.2
20°	7649.1	7677.1	7786.7	8001.2	8276.4	8635.6	8929.4	8787.1	8376.7	8040.9	6604.4
22.5°	7747.0	7770.3	7863.7	8092.1	8421.0	8871.1	9437.7	9407.4	9046.0	8612.2	6914.5
25°	8012.9	8050.2	8096.8	8234.4	8551.6	9111.3	9859.8	10069.8	9694.3	9209.3	7199.0
27.5°	8514.3	8544.6	8542.3	8560.9	8740.5	9318.8	10226.0	10725.1	10337.9	9813.3	7474.2
30°	9085.6	9097.3	9106.6	9064.6	9104.3	9531.1	10561.8	11373.4	10986.3	10433.6	7714.4
32.5°	9780.6	9803.9	9724.6	9617.4	9584.7	9845.8	10839.3	12021.6	11753.5	11063.2	7952.2
35°	10601.4	10662.1	10501.2	10312.3	10179.3	10298.3	11212.5	12684.0	12539.4	11867.8	8267.1
37.5°	11538.9	11613.5	11464.3	11093.5	10904.6	10937.3	11699.8	13502.5	13532.8	12784.3	8735.9
40°	12306.2	12404.1	12408.7	11884.1	11597.2	11634.5	12317.8	14384.0	14731.5	13917.6	9288.5
42.5°	12812.2	12907.8	13008.1	12700.3	12399.4	12611.7	13038.4	15340.1	16079.4	15293.5	10060.5
45°	13367.2	13453.5	13509.5	13369.6	13201.7	13752.1	13908.3	16356.9	17515.9	16830.4	10904.6
47.5°	14010.9	14106.5	14160.2	14027.2	13964.3	14752.5	14845.8	17306.1	19050.5	18322.8	11837.4
50°	14869.1	14941.4	14913.4	14829.5	14815.5	15519.7	15745.9	18194.6	20316.7	19929.6	12805.3
52.5°	15937.2	16023.5	16053.8	15934.8	15881.2	16067.8	16471.2	19003.8	21468.8	21310.2	13838.4
55°	16583.2	16720.7	17182.5	17369.1	17497.3	16776.7	17252.5	19897.0	22501.9	22765.3	14948.4
57.5°	15755.3	15932.5	16965.6	17898.4	19104.1	18549.0	18360.2	20829.8	23534.9	24176.2	16277.6
60°	13735.7	13775.3	15107.0	16825.7	19251.0	20827.4	20671.2	22312.9	24654.3	25598.8	18029.0
62.5°	9528.7	9612.7	11186.8	13929.3	17436.6	21648.3	24603.0	24873.6	26258.8	27728.0	20596.6
65°	4913.6	4804.0	6238.2	8754.5	13145.7	19698.7	27788.6	29581.9	29738.2	31058.1	24211.2
67.5°	3024.7	3073.7	3745.2	5111.8	7772.7	14316.4	27455.1	35335.1	34511.8	35146.1	27567.0
70°	2271.4	2332.0	2793.8	3498.1	4738.7	8185.5	22079.7	36729.6	37879.3	37716.1	28588.5
71°	1975.3	2038.2	2518.6	3183.2	3980.8	6317.5	18602.7	35269.8	37995.9	37967.9	28203.7
72.5°	1683.8	1723.4	2098.8	2695.9	3355.8	4428.6	13975.9	31631.8	36375.1	37305.6	26830.1
75°	1322.3	1352.6	1520.5	2056.9	2642.2	2719.1	7499.8	23714.5	29875.8	31648.1	22336.2
77.5°	1077.4	1098.4	1184.7	1527.5	2038.2	1926.3	3934.2	15435.7	18716.9	20501.0	13157.4
80°	855.9	879.2	930.5	1035.4	1527.5	1373.5	1877.3	7821.6	9041.3	9022.7	5251.7
82.5°	664.6	671.7	732.3	760.2	1044.8	974.8	1016.8	3311.5	3668.3	3789.6	1896.0
85°	419.8	440.8	648.3	583.0	625.0	571.4	501.4	1315.3	1620.7	1597.5	757.9
87.5°	128.3	135.2	219.2	247.2	277.5	249.5	184.2	387.1	473.4	513.0	188.9
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°	5207.4	5207.4	5207.4	5207.4	5207.4	5207.4	5207.4	5207.4	5207.4	5207.4	5207.4
2.5°	5237.7	5212.1	5121.1	5046.5	4976.6	4899.6	4834.3	4815.7	4799.3	4792.4	4790.0
5°	5286.7	5209.8	5030.2	4883.3	4766.7	4659.4	4591.7	4561.4	4531.1	4531.1	4540.5
7.5°	5356.7	5216.7	4939.2	4720.1	4573.1	4472.9	4423.9	4419.3	4426.2	4433.2	4435.5
10°	5433.6	5212.1	4806.4	4533.5	4402.9	4356.2	4358.6	4398.2	4435.5	4463.5	4468.2
12.5°	5508.2	5184.1	4650.1	4358.6	4274.6	4283.9	4349.3	4437.9	4510.2	4549.8	4552.1
15°	5592.3	5139.8	4461.2	4193.0	4165.0	4237.3	4358.6	4493.9	4603.4	4668.7	4675.8
17.5°	5662.2	5065.2	4263.0	4032.1	4067.1	4200.0	4367.9	4542.8	4675.8	4757.4	4771.4
20°	5741.5	4969.5	4057.7	3878.2	3978.4	4158.0	4349.3	4538.1	4675.8	4755.0	4773.7
22.5°	5804.5	4834.3	3861.8	3752.2	3899.2	4106.8	4286.3	4437.9	4549.8	4591.7	4619.8
25°	5830.1	4664.1	3677.6	3649.6	3836.2	4022.7	4144.0	4230.3	4265.3	4260.6	4272.3
27.5°	5816.1	4468.2	3519.0	3568.1	3756.9	3892.1	3952.8	3945.8	3882.8	3824.6	3852.5
30°	5757.8	4235.0	3386.1	3484.0	3654.3	3729.0	3719.6	3628.7	3509.7	3400.1	3407.1
32.5°	5652.9	3983.1	3262.5	3388.4	3509.7	3542.4	3479.4	3360.5	3190.3	3048.0	3027.0
35°	5564.2	3742.9	3152.9	3278.8	3365.1	3348.8	3288.2	3134.3	2980.3	2854.4	2833.4
37.5°	5550.2	3537.7	3048.0	3155.3	3204.2	3180.9	3106.2	2975.7	2919.7	2824.1	2812.5
40°	5624.9	3393.1	2940.7	3024.7	3048.0	3029.3	2947.7	2873.1	2924.3	2901.1	2901.1
42.5°	5827.8	3316.2	2845.1	2894.0	2912.7	2926.7	2868.4	2805.4	2868.4	2761.2	2726.2
45°	6149.6	3318.5	2758.8	2765.8	2821.8	2870.7	2831.1	2737.8	2705.2	2490.6	2448.7
47.5°	6623.0	3397.8	2688.8	2644.5	2744.8	2826.4	2770.5	2635.2	2490.6	2348.4	2322.7
50°	7175.6	3540.0	2625.9	2518.6	2642.2	2770.5	2728.5	2569.9	2420.6	2334.4	2318.1
52.5°	7789.0	3719.6	2548.9	2378.7	2516.2	2744.8	2737.8	2560.6	2355.3	2297.1	2283.1
55°	8546.9	3896.8	2453.3	2215.4	2404.4	2723.8	2712.2	2483.6	2341.4	2299.4	2294.7
57.5°	9428.4	4153.3	2315.7	2049.9	2276.1	2637.5	2611.9	2437.0	2294.7	2264.4	2262.1
60°	10848.6	4552.1	2119.8	1898.3	2145.5	2485.9	2518.6	2357.7	2220.1	2213.1	2210.8
62.5°	12716.6	5111.8	1916.9	1742.0	1993.9	2290.0	2383.4	2250.4	2140.8	2175.8	2180.4
65°	15295.8	5582.9	1707.0	1609.1	1826.0	2101.2	2255.1	2150.1	2052.2	2119.8	2119.8
67.5°	16977.2	5592.3	1515.8	1471.5	1655.7	1942.6	2119.8	2031.2	1937.9	2052.2	2056.9
70°	16627.5	4899.6	1357.3	1327.0	1490.2	1772.3	1970.6	1900.6	1793.3	1896.0	1858.6
71°	16063.1	4514.9	1294.3	1271.0	1424.9	1690.7	1900.6	1842.3	1735.0	1802.7	1781.7
72.5°	15163.0	3920.2	1191.6	1196.3	1327.0	1588.1	1802.7	1742.0	1634.7	1672.1	1665.0
75°	12816.9	3423.4	1019.1	1040.1	1140.4	1413.2	1606.8	1560.1	1450.5	1450.5	1443.5
77.5°	8012.9	2392.7	846.5	858.2	967.8	1210.4	1380.6	1340.9	1236.0	1201.0	1191.6
80°	2989.7	1236.0	662.3	676.3	743.9	953.8	1142.7	1105.4	998.1	958.5	921.1
82.5°	1131.0	620.3	487.4	475.8	548.0	727.6	895.5	851.2	767.3	671.7	643.6
85°	426.7	307.8	298.5	289.2	321.8	431.4	555.0	545.7	457.1	389.5	382.4
87.5°	112.0	100.3	116.6	86.3	91.0	81.6	83.9	35.0	16.3	7.0	4.7
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)