

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: P647049

Luminaire Tested: **GALN-SA7C-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647049  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-835-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22379.7 lumens  
Efficiency: N/A  
Efficacy: 59.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

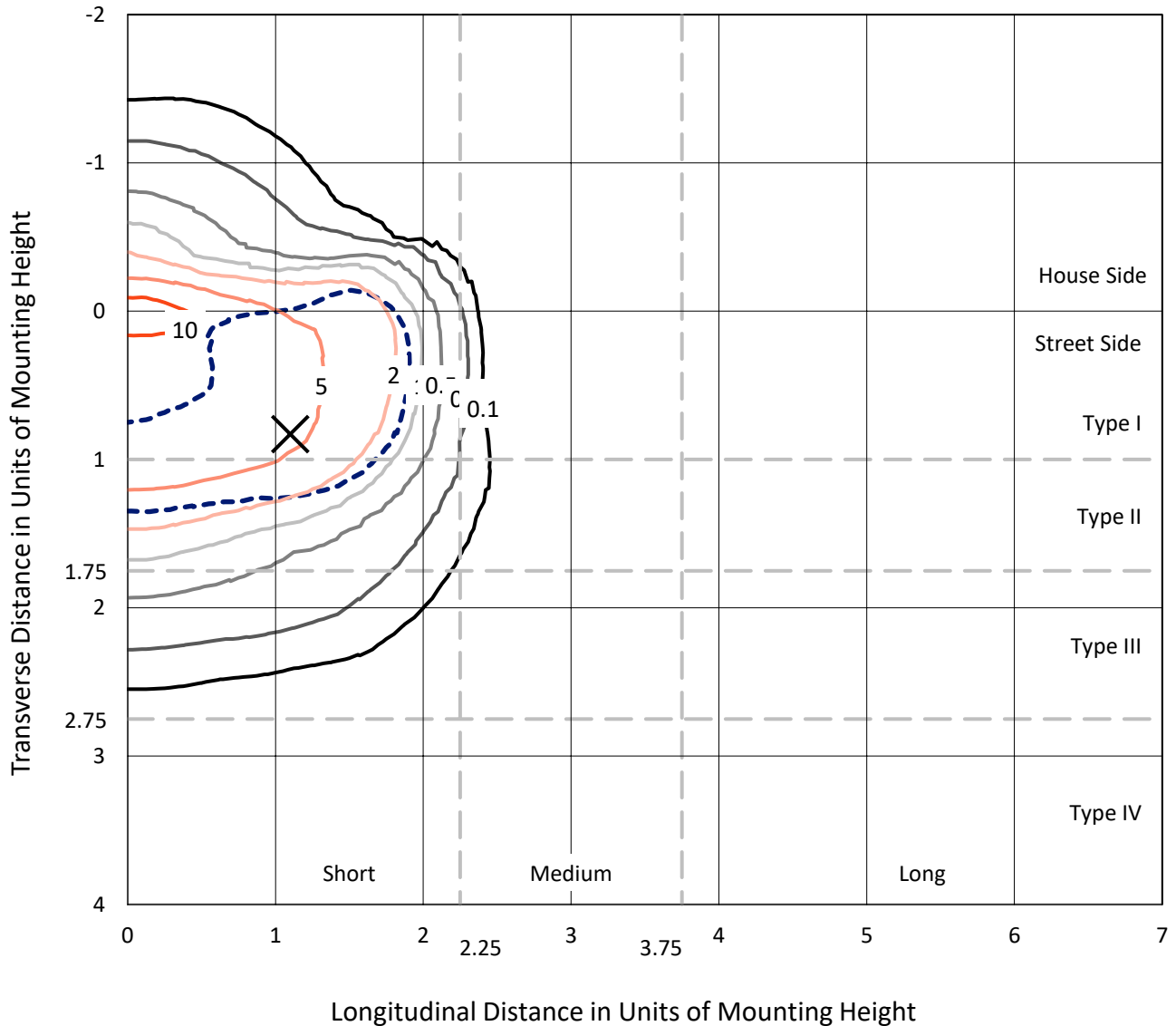
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

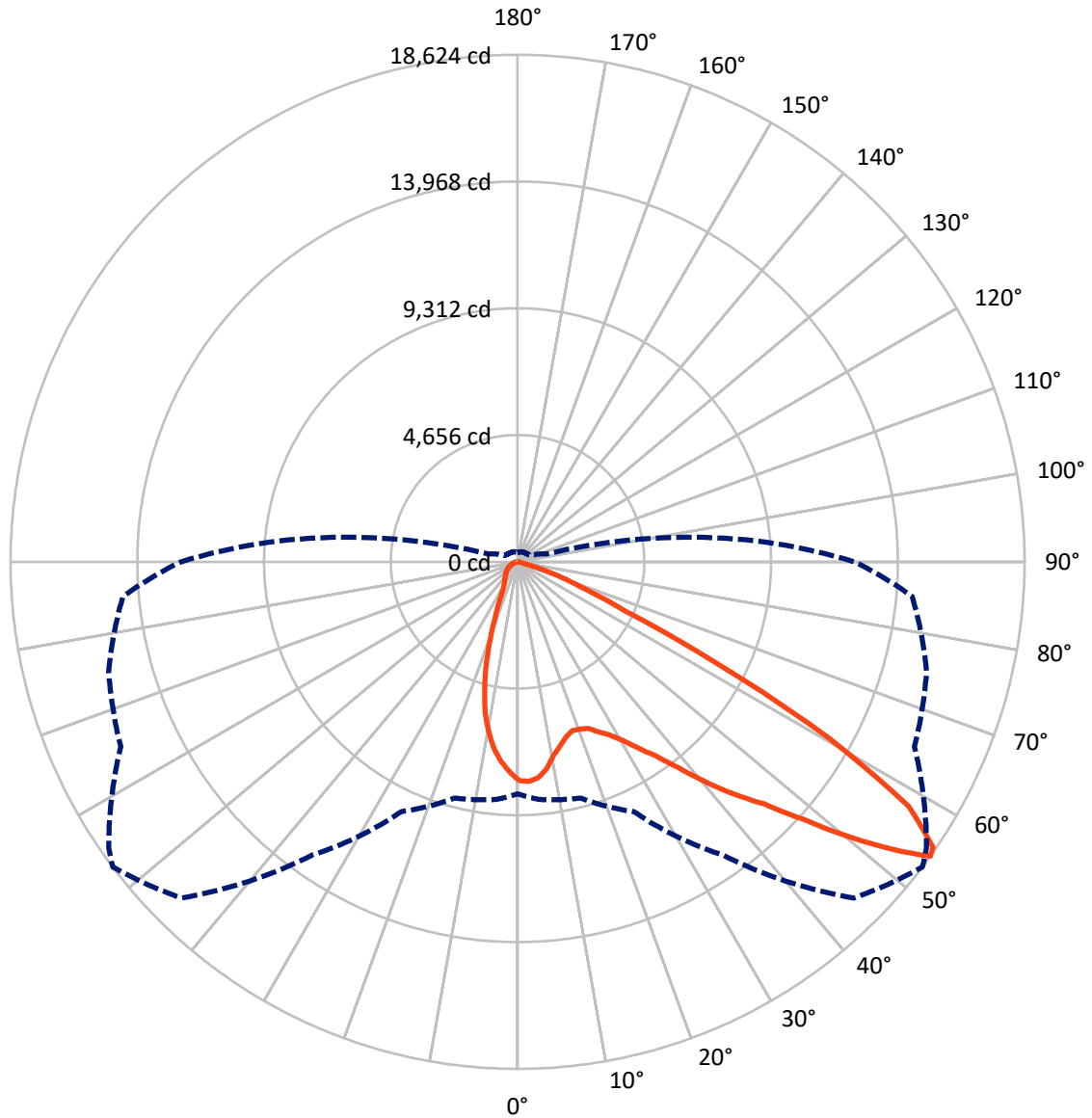
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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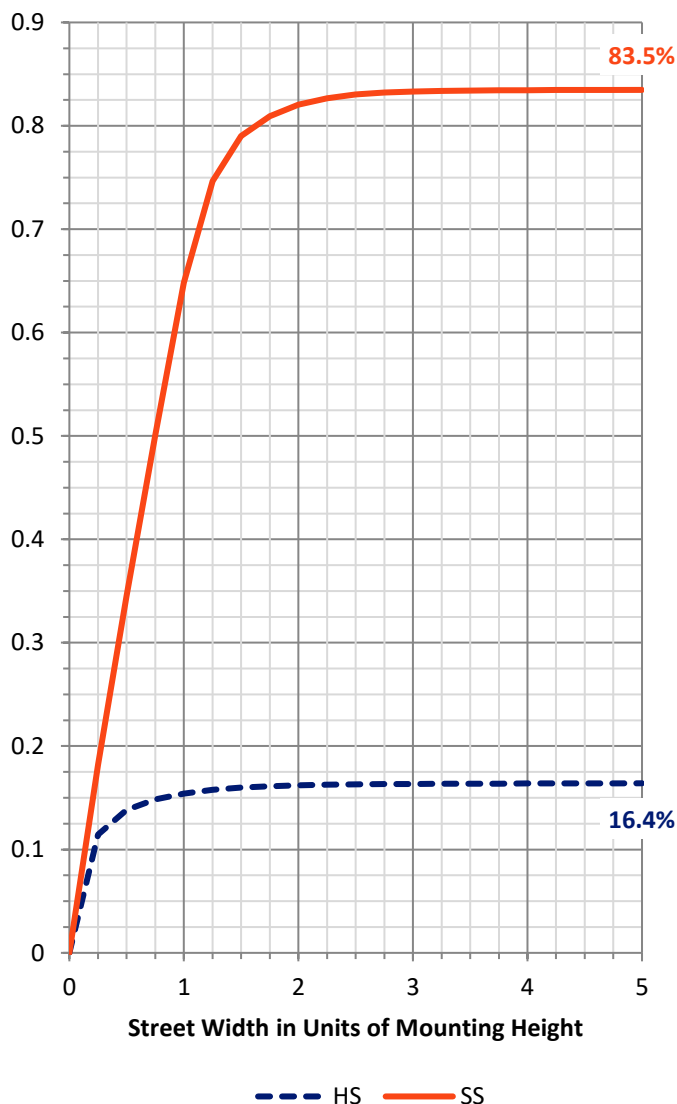
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3702.8	0.0	3702.8
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	18676.9	0.0	18676.9
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	22379.7	0.0	22379.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	689.7	3.1
10°-20°	1581.2	7.1
20°-30°	2247.2	10.0
30°-40°	3468.1	15.5
40°-50°	5437.6	24.3
50°-60°	6316.6	28.2
60°-70°	2386.8	10.7
70°-80°	227.0	1.0
80°-90°	25.5	0.1
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°	22379.7	100.0
0°-180°	22379.7	100.0

**Coefficient of Utilization**



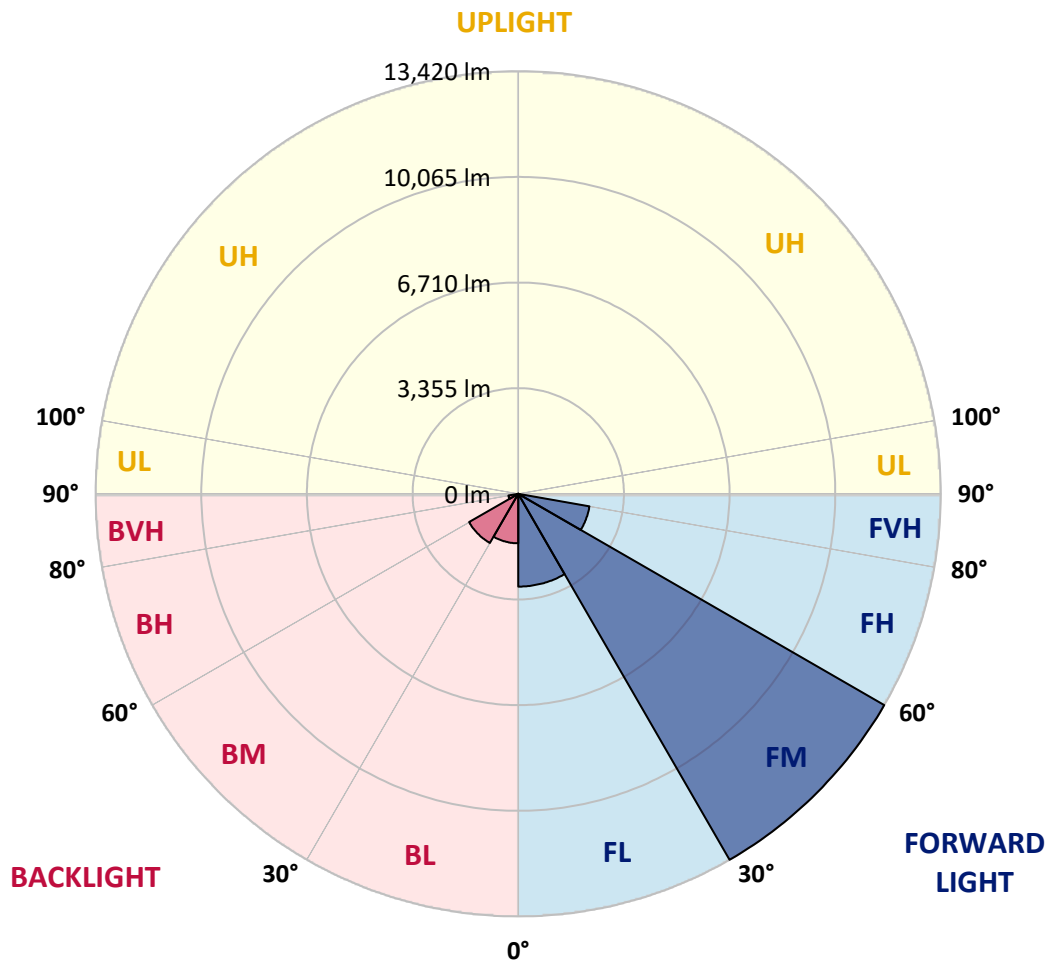
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2946.8	13.2			
FM (30°-60°)	13420.4	60.0			
FH (60°-80°)	2296.5	10.3			G2/5000
FVH (80°-90°)	13.2	0.1			G1/100
BL (0°-30°)	1571.3	7.0	B3/2500		
BM (30°-60°)	1801.9	8.1	B2/2500		
BH (60°-80°)	317.2	1.4	B1/500		G1/500
BVH (80°-90°)	12.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	8038.4	8038.4	8038.4	8038.4	8038.4	8038.4	8038.4	8038.4	8038.4	8038.4	8038.4
2.5°	7996.7	7925.8	7996.7	8005.1	8055.1	8100.9	8071.8	8138.5	8100.9	8059.3	8046.7
5°	7350.5	7446.4	7450.6	7600.7	7567.3	7842.4	7963.3	7930.0	8134.3	8121.8	8092.6
7.5°	6770.9	6733.4	6783.4	6958.6	7179.6	7496.4	7671.5	7667.4	7959.2	8167.6	8146.8
10°	6233.1	6228.9	6333.1	6470.8	6658.4	6992.0	7233.7	7354.6	7809.1	8126.0	8171.9
12.5°	5870.4	5853.7	5966.3	6078.8	6374.9	6633.3	6941.9	7000.3	7521.4	7980.0	8055.1
15°	5632.7	5670.3	5678.6	5895.4	6083.0	6424.9	6666.7	6787.6	7388.0	7863.3	8151.0
17.5°	5591.0	5641.0	5645.2	5824.5	6024.6	6312.3	6525.0	6687.5	7275.4	7921.7	8155.2
20°	5674.4	5645.2	5670.3	5782.8	5978.8	6254.0	6562.5	6616.7	7237.9	7950.9	8201.0
22.5°	5912.0	5903.7	5841.2	5932.9	6070.5	6358.2	6650.0	6733.4	7346.3	8100.9	8238.6
25°	6174.7	6220.6	6162.2	6149.7	6245.6	6529.1	6916.9	7025.3	7709.0	8372.0	8355.3
27.5°	6666.7	6620.8	6620.8	6562.5	6537.5	6675.1	7204.5	7383.8	8113.4	8722.2	8488.7
30°	7137.8	7187.9	7150.4	7171.2	7004.4	6992.0	7613.1	7834.1	8830.6	9255.8	8772.2
32.5°	7884.2	7817.5	7880.0	7825.8	7604.8	7379.7	8167.6	8397.0	9697.8	9868.8	9197.5
35°	8505.3	8476.2	8743.1	8734.7	8376.1	8155.2	8755.5	9097.4	10302.3	10602.5	9697.8
37.5°	9389.3	9335.1	9639.4	9785.4	9464.3	9134.9	9597.7	9993.8	10865.2	11190.4	10210.6
40°	10298.2	10435.7	10844.3	11086.2	10744.3	10306.6	10627.6	10748.5	11240.4	11574.0	10560.9
42.5°	11448.9	11649.0	12066.0	12274.4	12245.3	11769.9	11674.1	11669.9	11511.4	11465.5	10819.3
45°	12553.8	12478.7	13120.8	13575.3	13942.2	13804.5	12683.0	12557.9	11940.9	11628.2	10886.0
47.5°	13037.4	13012.4	13450.1	14259.0	15509.8	15680.7	14150.6	13667.0	12666.4	12312.0	11248.8
50°	12412.0	12541.2	12974.9	13871.2	15789.1	17094.1	15951.7	15301.3	13512.7	13145.8	12107.7
52.5°	10369.0	10456.6	10869.4	12007.6	14838.6	17928.0	17677.9	17302.6	15067.8	14459.1	13604.5
54°	8526.2	8759.7	8984.8	10127.2	13145.8	17465.2	18624.3	18336.6	16081.0	15551.5	14546.7
55°	7425.5	7563.1	7725.7	8864.0	11974.3	16681.3	18515.8	18540.9	16760.6	15893.4	15180.4
57.5°	5424.2	5520.2	5353.4	5857.9	8221.9	13546.1	16935.7	17611.2	17677.9	16406.2	15568.2
60°	4144.3	4186.0	3998.4	4077.6	5111.6	9297.6	13100.0	13913.0	15947.6	14338.2	13187.5
62.5°	3214.5	3222.9	3218.7	3356.3	3523.0	5470.1	8192.7	8914.0	10994.4	10181.4	8955.6
65°	2368.2	2330.7	2397.3	2814.3	3006.1	3439.6	4315.2	4840.6	5974.6	5044.9	3606.4
67.5°	1534.3	1546.8	1613.5	2093.0	2576.6	2639.2	2655.9	2614.1	2618.4	1442.6	904.8
70°	921.4	942.3	921.4	1184.1	1842.9	1892.8	1730.3	1688.5	1317.5	341.9	337.7
72.5°	546.1	517.0	462.8	508.6	767.2	917.3	825.5	821.4	517.0	200.1	200.1
75°	229.3	208.4	170.9	154.3	204.3	196.0	196.0	175.1	137.6	133.4	125.0
77.5°	45.9	45.9	33.4	37.5	50.0	58.3	70.9	70.9	83.4	83.4	79.2
80°	0.0	4.1	12.5	25.0	37.5	54.2	62.6	62.6	70.9	70.9	58.3
82.5°	0.0	4.1	12.5	25.0	33.4	50.0	62.6	62.6	70.9	75.0	62.6
85°	0.0	4.1	12.5	20.8	33.4	41.7	41.7	37.5	29.2	25.0	16.7
87.5°	0.0	0.0	4.1	8.3	4.1	8.3	8.3	8.3	8.3	8.3	8.3
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°	8038.4	8038.4	8038.4	8038.4	8038.4	8038.4	8038.4	8038.4	8038.4	8038.4	8038.4
2.5°	8075.9	8071.8	7971.7	7809.1	7771.6	7634.0	7617.3	7533.9	7579.8	7425.5	7408.8
5°	8009.2	7959.2	7838.3	7734.1	7429.7	7212.9	7042.0	6833.5	6712.6	6733.4	6654.2
7.5°	8105.1	7975.9	7763.2	7400.5	7029.5	6650.0	6445.7	6020.5	5866.2	5636.9	5603.5
10°	8005.1	7909.2	7579.8	6979.4	6466.6	5920.4	5440.9	4969.8	4611.2	4457.0	4423.6
12.5°	7996.7	7829.9	7279.6	6612.5	5870.4	5086.5	4390.3	3802.4	3448.0	3247.9	3202.0
15°	7867.5	7667.4	6941.9	6045.5	5019.8	4044.2	3285.4	2718.4	2447.3	2330.7	2364.0
17.5°	7880.0	7579.8	6604.1	5445.1	4181.8	2968.5	2243.1	1951.2	1880.4	1909.5	1909.5
20°	7867.5	7383.8	6195.6	4753.0	3202.0	2059.6	1646.9	1542.7	1588.5	1680.2	1659.4
22.5°	7800.8	7292.1	5820.4	4023.4	2355.7	1526.0	1321.7	1325.9	1396.7	1509.3	1534.3
25°	7850.8	7087.8	5345.1	3285.4	1717.7	1217.4	1146.5	1175.8	1250.8	1334.2	1350.8
27.5°	7813.2	6941.9	4848.9	2551.6	1255.0	1046.5	1042.3	1075.7	1109.0	1171.6	1171.6
30°	7855.0	6808.5	4361.1	1897.1	1034.0	958.9	942.3	967.2	1000.6	1013.1	1009.0
32.5°	8009.2	6708.4	3798.3	1417.5	913.1	875.6	875.6	875.6	871.4	888.1	892.2
35°	8346.9	6725.1	3302.1	1096.5	833.9	804.7	792.2	775.5	767.2	775.5	779.6
37.5°	8713.9	6716.7	2789.3	934.0	775.5	750.5	721.3	696.2	692.1	700.5	687.9
40°	8876.5	6796.0	2314.0	838.0	721.3	692.1	646.2	625.4	629.5	637.9	629.5
42.5°	9097.4	6820.9	2005.4	763.0	671.3	625.4	596.2	571.2	567.0	579.5	575.3
45°	9093.2	6679.2	1680.2	721.3	625.4	575.3	537.8	517.0	517.0	525.3	529.5
47.5°	9360.1	6658.4	1442.6	683.8	592.0	542.0	496.1	479.4	475.3	475.3	467.0
50°	9981.3	6950.2	1259.1	642.1	550.4	504.5	467.0	446.2	429.5	421.1	416.9
52.5°	11194.6	7859.1	1117.3	592.0	504.5	467.0	433.6	416.9	396.1	375.2	371.1
54°	12370.3	8797.2	1109.0	550.4	467.0	441.9	412.8	404.4	379.4	350.2	341.9
55°	12899.8	9343.4	1138.2	517.0	441.9	425.2	400.3	391.9	366.9	333.6	329.4
57.5°	13337.6	9556.0	1121.6	429.5	400.3	396.1	375.2	362.8	333.6	287.7	279.4
60°	10735.9	7225.4	804.7	379.4	366.9	358.5	341.9	333.6	296.1	246.0	241.8
62.5°	6783.4	4156.8	512.8	333.6	321.0	308.5	287.7	279.4	246.0	196.0	183.5
65°	2889.3	1721.9	346.1	296.1	275.1	254.3	237.6	225.1	196.0	146.0	141.7
67.5°	750.5	612.9	287.7	258.5	229.3	200.1	187.6	166.8	133.4	100.1	95.9
70°	337.7	308.5	241.8	216.8	183.5	154.3	137.6	116.7	87.5	66.7	62.6
72.5°	200.1	196.0	183.5	162.6	137.6	116.7	100.1	79.2	58.3	37.5	37.5
75°	125.0	120.9	125.0	112.6	95.9	87.5	75.0	54.2	33.4	16.7	16.7
77.5°	75.0	75.0	75.0	70.9	66.7	66.7	54.2	33.4	16.7	4.1	4.1
80°	58.3	58.3	62.6	58.3	58.3	58.3	45.9	25.0	8.3	0.0	0.0
82.5°	58.3	62.6	70.9	66.7	58.3	50.0	41.7	25.0	8.3	0.0	0.0
85°	16.7	12.5	20.8	29.2	41.7	37.5	29.2	20.8	8.3	0.0	0.0
87.5°	8.3	8.3	8.3	8.3	4.1	4.1	4.1	4.1	4.1	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)