

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: P647022

Luminaire Tested: **GALN-SA6C-835-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647022  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-835-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27830.9 lumens  
Efficiency: N/A  
Efficacy: 86.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

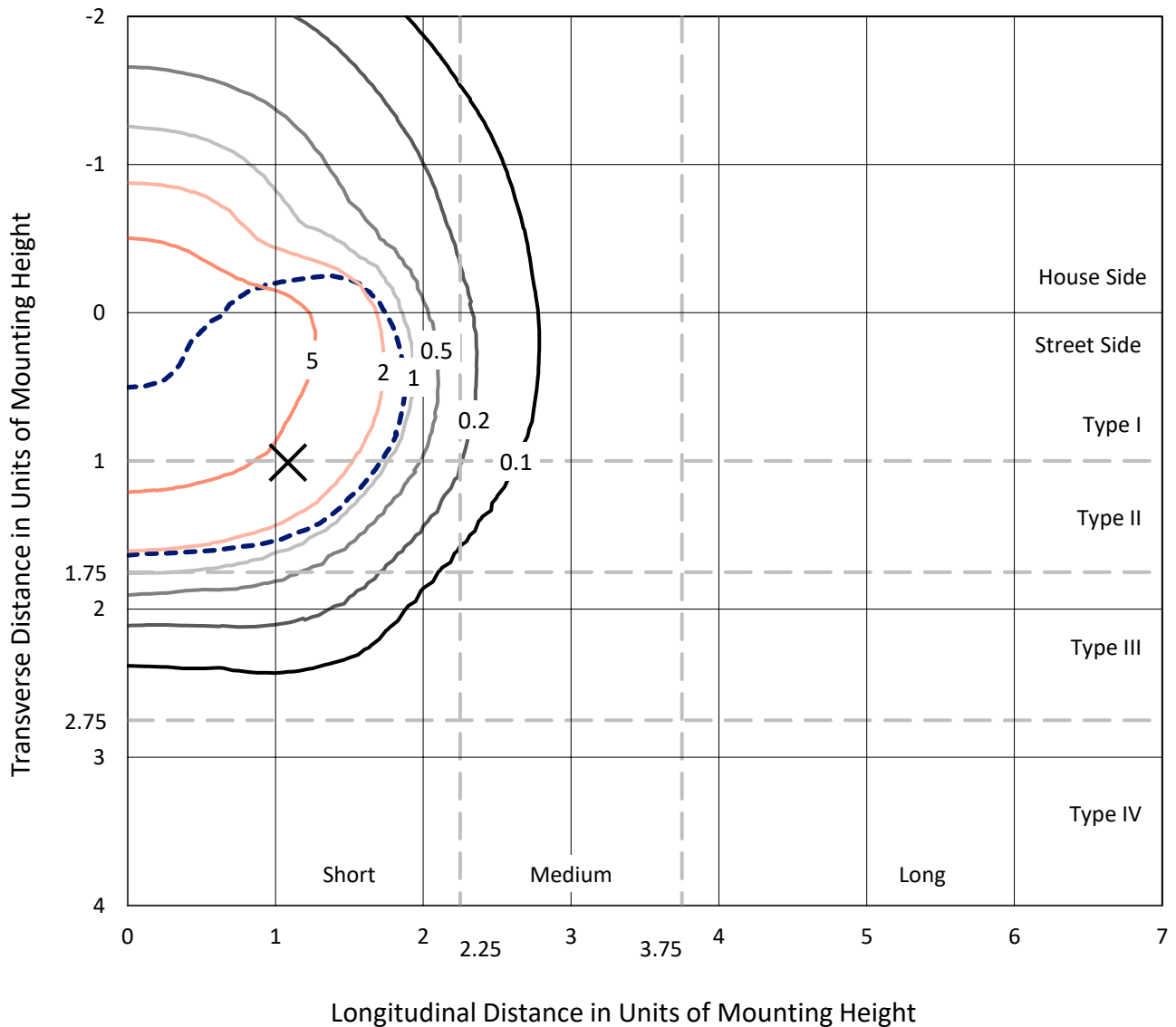
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

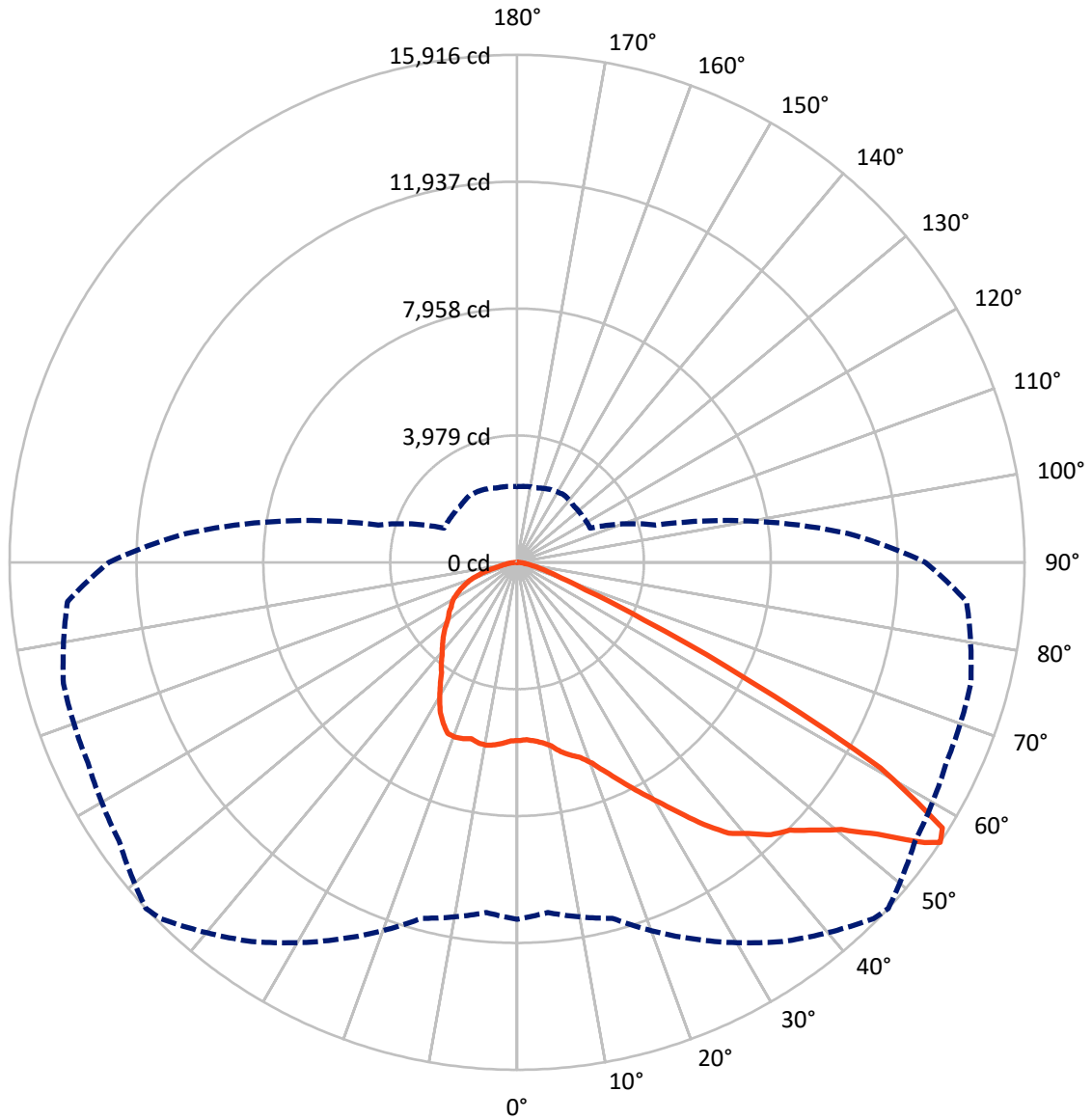
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical



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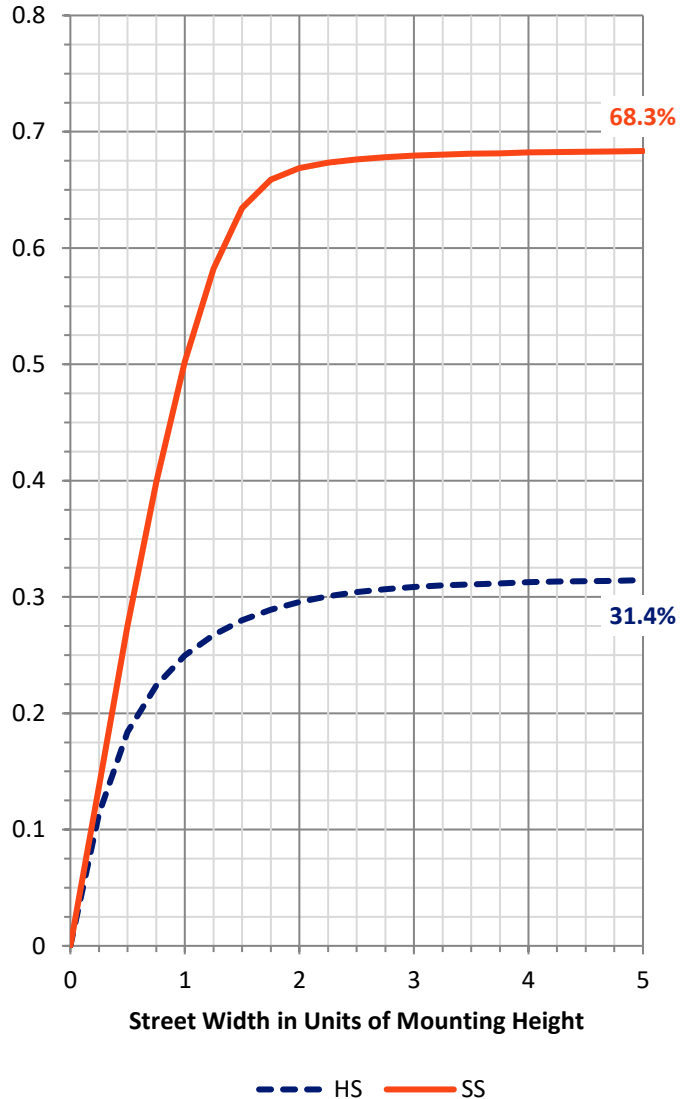
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8819.3	0.0	8819.3
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	19011.7	0.0	19011.7
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	27830.9	0.0	27830.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	544.7	2.0
10°-20°	1718.3	6.2
20°-30°	3037.5	10.9
30°-40°	4562.2	16.4
40°-50°	6261.2	22.5
50°-60°	7459.4	26.8
60°-70°	3192.2	11.5
70°-80°	903.4	3.2
80°-90°	152.0	0.5
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°	27830.9	100.0
0°-180°	27830.9	100.0

**Coefficient of Utilization**

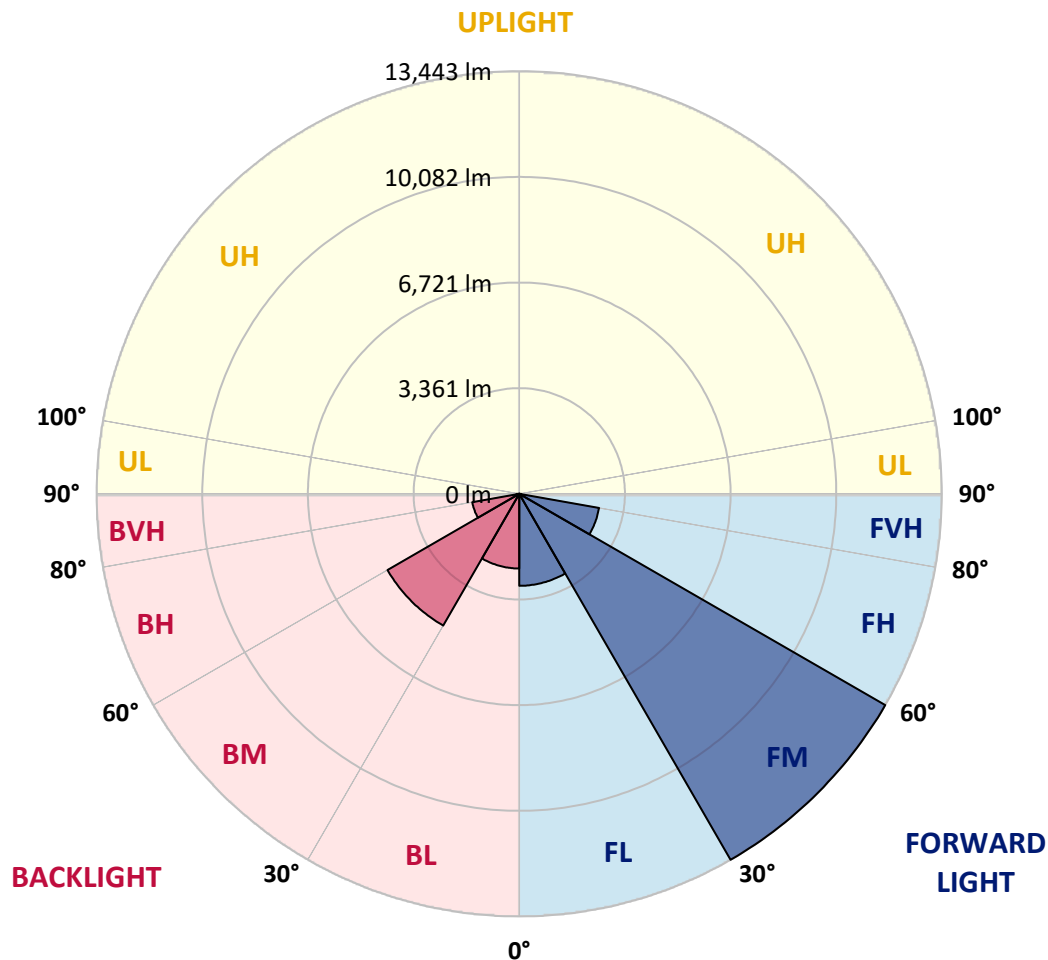


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2926.0	10.5			
FM (30°-60°)	13443.0	48.3			
FH (60°-80°)	2578.2	9.3			G2/5000
FVH (80°-90°)	64.5	0.2			G1/100
BL (0°-30°)	2374.5	8.5	B3/2500		
BM (30°-60°)	4839.9	17.4	B3/5000		
BH (60°-80°)	1517.4	5.5	B3/2500		G3/2500
BVH (80°-90°)	87.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	5590.4	5590.4	5590.4	5590.4	5590.4	5590.4	5590.4	5590.4	5590.4	5590.4	5590.4
2.5°	5569.1	5558.4	5551.3	5608.2	5586.9	5590.4	5569.1	5590.4	5604.6	5572.6	5618.8
5°	5558.4	5590.4	5562.0	5579.7	5625.9	5611.7	5625.9	5668.5	5657.8	5647.2	5633.0
7.5°	5657.8	5661.4	5682.7	5689.7	5704.0	5689.7	5711.0	5750.1	5739.5	5679.1	5686.2
10°	5799.8	5806.9	5810.5	5849.5	5874.4	5877.9	5853.1	5817.5	5814.0	5895.7	5838.8
12.5°	5963.1	5945.3	5987.9	6002.2	6030.5	6062.5	6094.4	6019.9	6066.1	6069.6	6002.2
15°	6200.9	6218.7	6168.9	6168.9	6179.6	6183.1	6271.9	6236.4	6229.3	6190.2	6218.7
17.5°	6555.8	6435.2	6431.6	6381.9	6374.8	6403.2	6435.2	6463.6	6559.4	6481.3	6328.7
20°	6814.9	6843.3	6740.4	6680.1	6690.7	6754.6	6722.7	6850.5	6917.9	6790.1	6641.0
22.5°	7272.8	7177.0	7201.9	7067.0	7077.6	7145.0	7141.5	7272.8	7311.9	7109.6	6893.1
25°	7581.6	7556.8	7578.1	7471.6	7485.8	7539.0	7624.2	7840.7	7776.8	7553.2	7052.8
27.5°	8032.4	7982.8	7965.0	7925.9	7911.7	8053.7	8153.1	8383.8	8337.7	8011.1	7336.7
30°	8493.8	8461.9	8479.7	8319.9	8376.7	8678.4	8706.8	9022.7	9001.4	8426.4	7652.7
32.5°	8813.3	8831.1	8863.0	8774.2	9026.3	9267.7	9363.4	9722.0	9739.7	9139.9	8263.2
35°	9328.0	9267.7	9285.4	9388.3	9505.5	9945.6	10101.7	10339.6	10488.7	9888.8	8848.8
37.5°	9650.9	9714.8	9640.3	9803.6	10108.8	10637.7	10779.7	11024.6	11180.8	10627.0	9647.4
40°	10155.0	10052.1	10105.3	10222.5	10534.8	11223.4	11184.4	11436.3	11486.1	11255.3	10392.8
42.5°	10698.1	10648.3	10573.9	10840.0	11102.7	11603.2	11681.3	11564.1	11816.2	11869.4	11457.6
45°	11347.6	11407.9	11418.6	11425.7	11656.4	12093.0	11986.5	11883.6	12174.6	12561.5	12117.9
47.5°	11951.0	11759.3	11897.8	12089.4	12416.0	12419.6	12543.7	12298.9	12607.6	12952.0	12714.1
50°	12153.3	12061.0	12245.7	12607.6	13111.7	13164.9	13179.1	12831.3	12991.0	13264.3	12920.0
52.5°	12075.3	12043.3	12515.4	13076.2	13814.5	14084.2	14155.2	13725.8	13814.5	13690.3	13374.3
55°	11702.6	11798.4	12274.0	13416.9	14549.2	15383.4	15518.2	14975.2	14410.8	14506.6	14158.8
56°	11191.4	11024.6	11557.0	13030.1	14517.3	15805.7	15915.7	15237.8	14854.4	14730.3	14151.7
57.5°	9494.8	9278.3	9977.5	11723.9	13711.6	15646.0	15727.7	15347.8	14779.9	14527.9	13118.8
60°	5558.4	5664.9	6552.3	8085.6	10577.4	12827.7	13101.1	13377.9	12998.1	11869.4	9764.6
62.5°	2683.4	2615.9	3251.3	4635.6	6445.8	8188.6	8106.9	8884.3	9310.2	8433.5	6165.4
65°	1405.6	1398.5	1774.7	2530.7	3542.4	4302.0	4376.5	4795.3	5381.0	4344.6	3130.6
67.5°	1032.9	1061.3	1249.4	1778.3	2278.8	2324.9	2314.2	2523.7	2580.5	2182.9	1923.8
70°	809.3	823.5	961.9	1352.3	1696.6	1519.2	1487.2	1512.1	1678.9	1749.8	1664.7
72.5°	585.7	599.9	717.0	912.2	1061.3	1036.5	1057.8	1196.2	1402.0	1476.6	1387.9
75°	390.4	401.1	464.9	557.3	628.3	677.9	717.0	876.7	1068.4	1111.0	1068.4
77.5°	269.7	280.4	323.0	394.0	401.1	433.0	447.2	521.8	638.9	692.2	663.7
80°	152.6	152.6	173.9	202.3	248.4	291.0	298.2	358.5	411.7	447.2	454.3
82.5°	71.0	74.5	92.3	124.3	163.3	202.3	209.5	248.4	287.5	323.0	333.6
85°	35.5	39.1	53.2	74.5	99.4	120.7	117.1	120.7	127.8	120.7	124.3
87.5°	10.6	10.6	14.2	17.8	14.2	17.8	17.8	21.3	24.8	28.4	31.9
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°	5590.4	5590.4	5590.4	5590.4	5590.4	5590.4	5590.4	5590.4	5590.4	5590.4	5590.4
2.5°	5622.3	5633.0	5562.0	5629.5	5604.6	5601.0	5650.8	5643.6	5661.4	5654.3	5611.7
5°	5625.9	5601.0	5675.6	5608.2	5640.1	5707.5	5661.4	5767.9	5714.6	5750.1	5672.1
7.5°	5735.9	5743.0	5728.8	5757.2	5743.0	5774.9	5750.1	5774.9	5732.3	5735.9	5806.9
10°	5831.8	5810.5	5835.3	5799.8	5824.7	5814.0	5757.2	5739.5	5753.6	5735.9	5782.1
12.5°	6009.2	5970.2	5952.4	5909.8	5881.4	5774.9	5686.2	5636.5	5704.0	5714.6	5693.3
15°	6190.2	6193.8	6112.2	6016.3	5838.8	5679.1	5700.4	5718.2	5718.2	5746.6	5693.3
17.5°	6303.9	6303.9	6229.3	6037.6	5856.6	5764.3	5743.0	5686.2	5636.5	5629.5	5625.9
20°	6502.6	6442.3	6271.9	6034.1	5849.5	5806.9	5647.2	5512.3	5409.4	5373.9	5370.4
22.5°	6729.8	6577.1	6339.3	6041.2	5838.8	5778.5	5480.4	5278.0	5093.5	5015.3	5026.0
25°	6939.2	6694.3	6378.4	6009.2	5799.8	5508.7	5175.1	4894.7	4703.0	4639.1	4607.2
27.5°	7084.7	6818.5	6378.4	6037.6	5654.3	5207.0	4866.3	4507.8	4341.0	4298.4	4305.5
30°	7279.9	6974.7	6488.4	5977.3	5363.2	4816.6	4408.4	4174.2	4074.8	4039.3	4064.2
32.5°	7737.8	7382.8	6641.0	5831.8	5019.0	4426.1	4096.1	3964.7	3819.2	3748.2	3723.4
35°	8234.7	7769.8	6790.1	5586.9	4632.1	4071.2	3865.4	3744.7	3570.7	3492.6	3506.9
37.5°	8937.6	8266.7	6800.7	5182.2	4213.2	3872.5	3684.3	3496.3	3354.2	3233.6	3198.1
40°	9885.2	8944.6	6775.9	4756.3	3876.0	3638.2	3499.8	3265.5	3105.8	3020.6	3038.4
42.5°	10719.3	9739.7	6673.0	4273.5	3570.7	3478.5	3322.3	3091.6	2935.4	2846.7	2839.5
45°	11422.2	10325.3	6477.8	3861.8	3315.2	3301.0	3119.9	2942.5	2818.3	2736.7	2772.1
47.5°	12071.7	10797.4	6183.1	3450.1	3080.9	3109.3	2935.4	2825.4	2747.3	2672.8	2669.2
50°	12305.9	10790.4	5924.0	3109.3	2892.8	2878.6	2871.5	2754.4	2672.8	2608.9	2637.2
52.5°	12696.4	10911.0	5643.6	2875.1	2722.4	2726.0	2750.8	2665.6	2573.3	2534.3	2569.8
55°	13257.2	10928.8	5026.0	2601.8	2580.5	2605.3	2605.3	2548.5	2470.4	2438.5	2420.7
56°	12799.3	10399.9	4507.8	2530.7	2509.4	2509.4	2576.9	2513.0	2417.2	2392.3	2371.0
57.5°	11805.5	9111.5	3773.0	2445.5	2413.6	2463.3	2498.8	2431.4	2342.7	2307.1	2328.4
60°	8142.4	6165.4	2836.0	2261.0	2261.0	2342.7	2371.0	2271.6	2232.6	2229.0	2200.7
62.5°	4752.7	3592.0	2218.4	2094.2	2101.3	2168.8	2190.1	2133.2	2083.6	2143.9	2172.3
65°	2520.1	2143.9	1902.5	1916.7	1920.2	1973.5	2065.8	2062.3	2058.7	2076.4	2080.0
67.5°	1824.4	1781.8	1728.6	1714.4	1721.5	1760.5	1852.8	1923.8	1920.2	1877.6	1845.7
70°	1625.7	1565.3	1533.3	1537.0	1508.5	1554.6	1629.2	1675.3	1593.7	1544.0	1522.7
72.5°	1352.3	1334.6	1313.3	1316.8	1260.1	1249.4	1164.2	1164.2	1142.9	1128.7	1153.6
75°	1032.9	1025.8	1036.5	1018.7	958.4	894.5	844.8	798.7	727.6	699.2	685.0
77.5°	653.1	674.4	699.2	660.2	635.3	589.2	539.5	493.4	436.6	404.7	404.7
80°	443.6	461.4	479.2	472.1	443.6	401.1	362.1	312.3	273.3	248.4	244.9
82.5°	337.2	351.4	376.2	347.8	319.5	284.0	252.0	216.5	181.0	152.6	152.6
85°	120.7	138.4	152.6	166.9	177.5	181.0	156.2	127.8	103.0	81.7	78.1
87.5°	31.9	35.5	39.1	35.5	35.5	35.5	39.1	35.5	31.9	24.8	24.8
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)