

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: P652307

Luminaire Tested: **GALN-SA3B-840-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652307  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3B-840-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14619.1 lumens  
Efficiency: N/A  
Efficacy: 120.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 121  
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

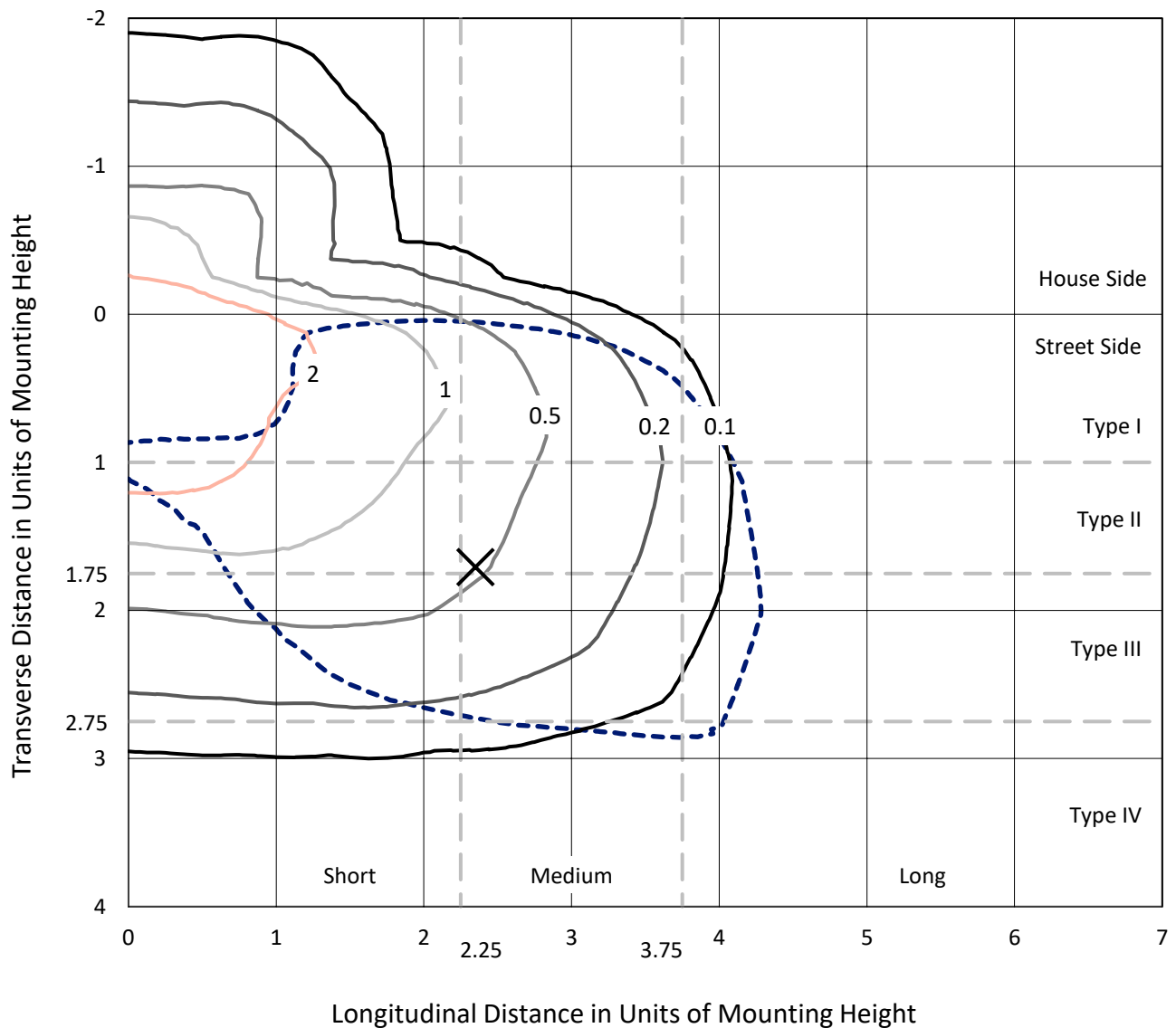




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### Iso-Footcandle Lines of Horizontal Illumination

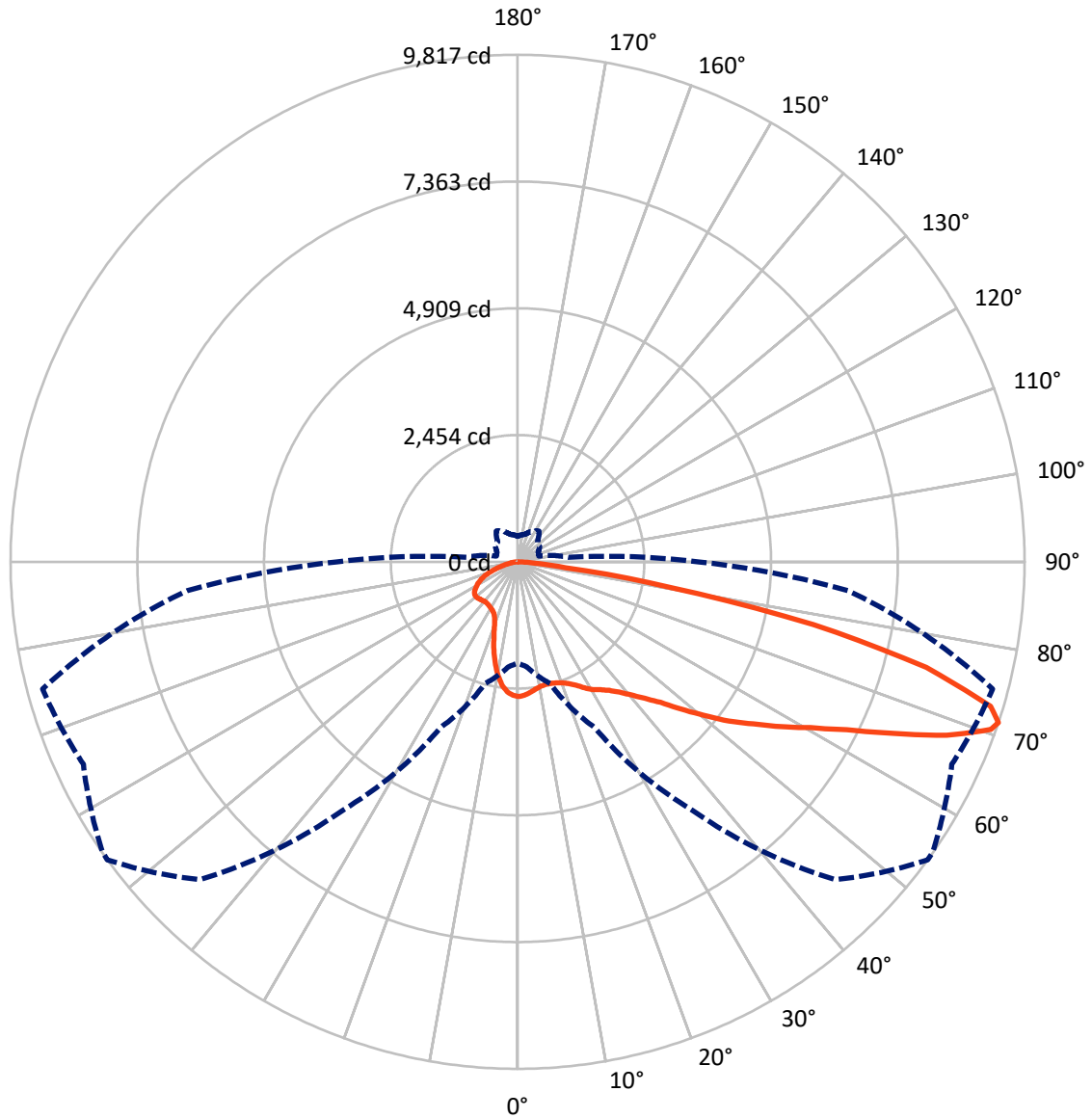
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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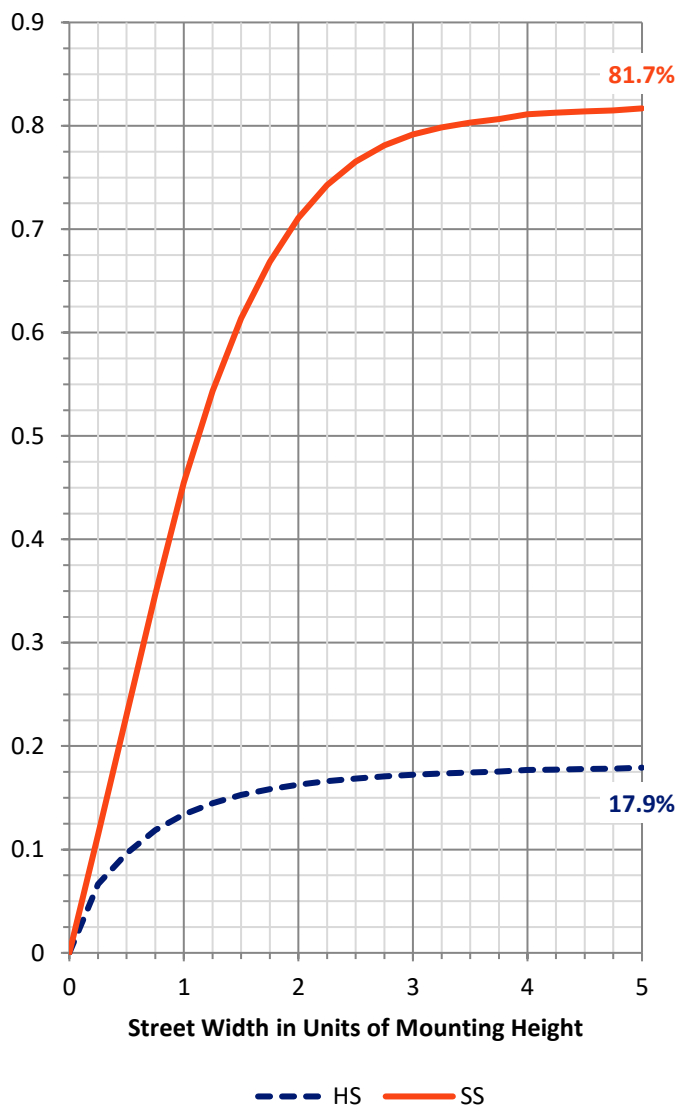
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2639.4	0.0	2639.4
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	11979.7	0.0	11979.7
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	14619.1	0.0	14619.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	232.4	1.6
10°-20°	613.7	4.2
20°-30°	1021.9	7.0
30°-40°	1511.1	10.3
40°-50°	2128.4	14.6
50°-60°	2850.0	19.5
60°-70°	3592.2	24.6
70°-80°	2453.5	16.8
80°-90°	215.8	1.5
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°	14619.1	100.0
0°-180°	14619.1	100.0

**Coefficient of Utilization**

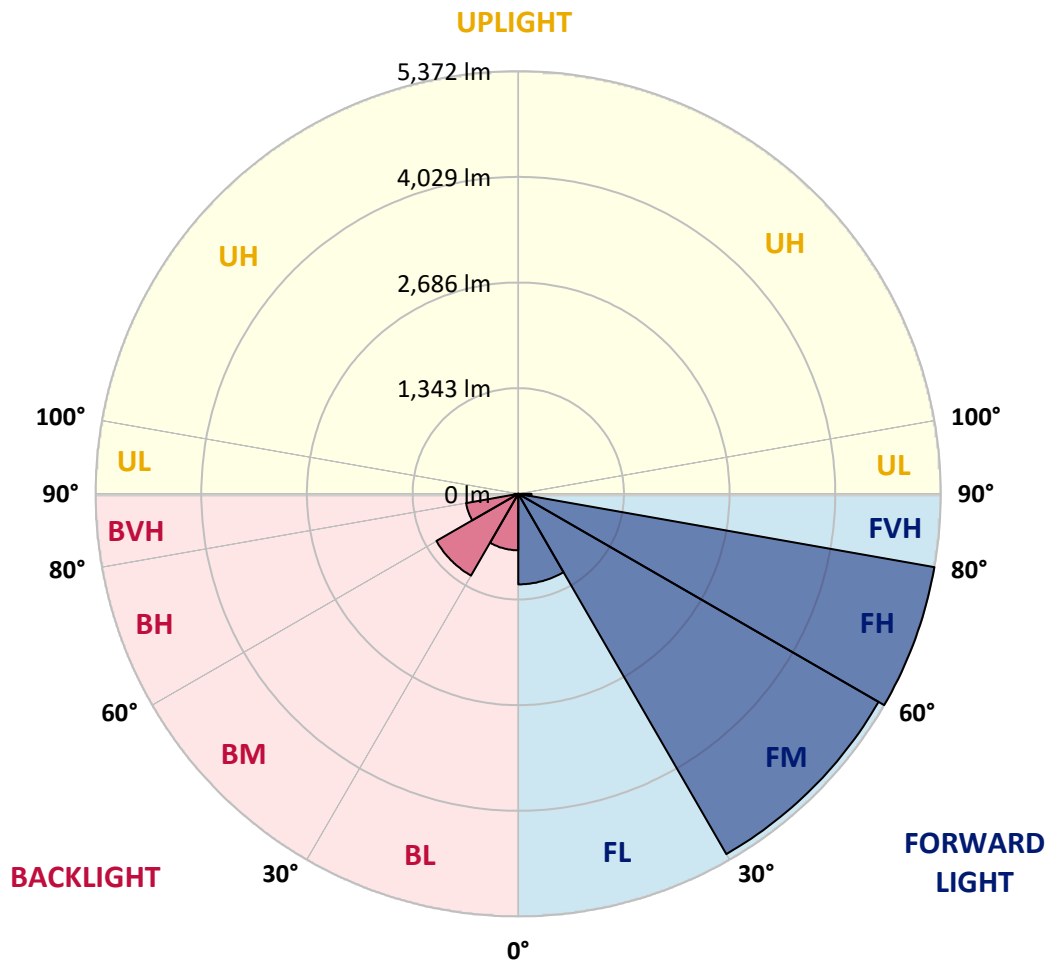


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1150.8	7.9			
FM (30°-60°)	5288.7	36.2			
FH (60°-80°)	5371.6	36.7			G3/7500
FVH (80°-90°)	168.7	1.2			G2/225
BL (0°-30°)	717.3	4.9	B2/1000		
BM (30°-60°)	1200.8	8.2	B2/2500		
BH (60°-80°)	674.1	4.6	B2/1000		G2/1000
BVH (80°-90°)	47.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2608.3	2608.3	2608.3	2608.3	2608.3	2608.3	2608.3	2608.3	2608.3	2608.3	2608.3
2.5°	2519.8	2531.7	2534.9	2542.8	2559.3	2572.7	2586.2	2584.6	2603.6	2611.4	2618.5
5°	2407.7	2410.8	2422.7	2438.5	2467.7	2504.8	2541.2	2541.9	2588.5	2625.6	2643.8
7.5°	2325.5	2335.8	2343.7	2360.4	2391.1	2431.4	2489.0	2493.7	2576.7	2650.1	2688.8
10°	2271.9	2283.7	2292.4	2312.9	2343.7	2388.8	2451.1	2459.8	2568.0	2688.8	2756.7
12.5°	2222.9	2234.8	2242.6	2269.5	2309.8	2365.1	2435.4	2445.6	2571.2	2733.8	2831.0
15°	2253.0	2262.4	2259.3	2267.2	2294.0	2357.2	2441.7	2451.9	2583.0	2777.2	2904.4
17.5°	2386.3	2394.2	2368.2	2338.2	2325.5	2372.1	2461.4	2472.5	2606.7	2822.2	2979.4
20°	2583.0	2604.3	2547.5	2480.4	2419.6	2425.9	2502.5	2514.3	2639.8	2867.3	3056.0
22.5°	2838.9	2854.6	2785.1	2674.6	2562.4	2504.8	2564.0	2571.2	2689.6	2925.7	3139.7
25°	3139.7	3149.2	3052.8	2910.7	2748.8	2639.8	2648.6	2661.2	2771.7	2992.0	3214.0
27.5°	3431.9	3461.9	3350.5	3176.8	2963.6	2782.0	2764.6	2772.5	2861.0	3029.2	3265.3
30°	3778.5	3776.2	3658.5	3457.2	3183.9	2936.8	2874.4	2872.8	2909.1	3047.3	3302.4
32.5°	4055.0	4087.3	3972.0	3752.5	3435.8	3097.1	2950.2	2947.0	2946.3	3078.9	3357.7
35°	4369.2	4374.0	4268.2	4047.1	3708.3	3298.4	3056.0	3040.2	3022.0	3146.9	3432.7
37.5°	4650.3	4672.4	4575.3	4327.4	3976.0	3507.7	3201.3	3191.0	3135.8	3264.5	3552.7
40°	4869.9	4886.5	4828.0	4591.9	4239.7	3733.5	3386.1	3367.1	3300.0	3457.2	3713.0
42.5°	4941.7	4975.7	4998.6	4882.5	4542.9	4001.2	3613.5	3589.8	3538.5	3749.3	3897.8
45°	4947.3	5000.9	5121.8	5127.3	4847.8	4321.8	3878.9	3862.3	3858.3	4123.6	4157.6
47.5°	4905.4	4959.9	5162.8	5272.6	5119.4	4645.6	4261.9	4235.8	4238.1	4586.4	4449.0
50°	4804.3	4869.1	5115.5	5365.7	5331.9	4982.0	4666.1	4657.5	4706.4	5114.6	4751.4
52.5°	4614.0	4692.2	5066.5	5424.2	5489.7	5271.8	5125.7	5101.3	5225.2	5687.9	5082.2
55°	4087.3	4205.0	4887.2	5456.6	5639.8	5549.0	5539.5	5583.7	5748.0	6313.4	5446.3
57.5°	3812.5	3901.0	4497.9	5462.1	5829.3	5871.2	6022.7	6033.8	6321.3	6977.4	5857.7
60°	3662.5	3740.7	4284.7	5425.8	6093.9	6269.9	6517.1	6556.6	6881.1	7696.8	6284.1
62.5°	3531.4	3598.5	4156.8	5300.2	6392.4	6861.4	7157.5	7176.5	7516.9	8491.2	6705.0
65°	3222.6	3299.2	3899.4	5174.7	6649.8	7600.5	8007.2	7985.1	8193.5	9176.7	6968.8
67.5°	2806.5	2903.6	3418.5	4741.1	6776.9	8408.3	8964.3	8936.6	8861.6	9626.0	7044.6
70°	2275.0	2327.1	2803.3	3991.7	6269.2	8832.4	9720.0	9690.8	9275.4	9685.2	6686.1
71°	1957.6	2038.9	2440.8	3545.6	5846.7	8702.9	9817.1	9809.3	9276.2	9521.8	6416.0
72.5°	1528.0	1577.7	1933.1	2747.2	4969.4	7967.0	9577.1	9607.1	9074.8	9067.7	5859.3
75°	966.6	988.7	1212.9	1617.2	2726.7	5642.2	8175.4	8256.8	8057.7	7422.1	4357.4
77.5°	561.5	589.9	726.5	953.1	1178.2	3062.3	5849.8	5938.3	5598.7	4086.5	1783.8
80°	326.9	358.5	478.5	553.5	540.9	1136.4	2978.7	3129.4	2424.3	1032.1	500.6
82.5°	181.7	202.9	336.4	337.2	288.2	371.1	937.3	980.8	691.7	416.1	204.5
85°	131.9	149.3	217.1	196.6	138.2	159.5	326.1	342.0	279.5	175.3	66.4
87.5°	46.6	66.4	119.3	94.8	37.9	33.1	93.9	76.6	71.1	48.9	15.0
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°	2608.3	2608.3	2608.3	2608.3	2608.3	2608.3	2608.3	2608.3	2608.3	2608.3	2608.3
2.5°	2622.5	2624.1	2616.2	2602.0	2587.8	2569.6	2549.1	2533.3	2526.1	2525.4	2524.6
5°	2650.9	2654.9	2624.8	2580.6	2531.7	2471.6	2420.3	2361.9	2346.9	2323.2	2330.3
7.5°	2696.7	2694.3	2635.1	2541.2	2426.6	2299.5	2192.2	2129.7	2065.0	2046.8	2047.6
10°	2762.3	2747.2	2635.1	2460.6	2269.5	2080.8	1930.8	1836.0	1784.6	1742.0	1726.2
12.5°	2831.7	2793.8	2609.9	2347.7	2067.3	1836.0	1674.9	1546.9	1513.8	1479.1	1479.8
15°	2898.1	2834.9	2560.1	2189.0	1849.4	1574.6	1418.3	1341.6	1331.4	1335.3	1334.5
17.5°	2958.0	2864.1	2484.3	2012.1	1595.1	1350.3	1267.4	1272.9	1300.6	1320.3	1322.7
20°	3018.9	2881.5	2371.4	1775.2	1355.1	1214.5	1217.7	1261.1	1303.0	1329.8	1333.7
22.5°	3076.5	2889.4	2238.7	1546.2	1181.4	1156.9	1203.5	1250.1	1291.1	1317.2	1321.1
25°	3114.5	2871.3	2050.8	1306.9	1096.1	1136.4	1185.3	1224.7	1259.5	1286.4	1292.7
27.5°	3124.7	2812.8	1817.8	1113.4	1056.5	1116.6	1161.6	1190.9	1217.7	1242.9	1247.7
30°	3119.2	2726.7	1562.0	999.7	1033.7	1093.7	1128.5	1149.7	1182.1	1201.9	1205.8
32.5°	3110.5	2626.4	1295.1	938.9	1014.8	1072.4	1092.9	1111.9	1111.0	1103.1	1108.7
35°	3113.6	2506.4	1078.7	902.6	998.1	1056.5	1074.0	1050.2	982.4	979.2	976.1
37.5°	3130.2	2387.9	921.6	877.3	989.4	1054.2	1063.7	954.7	894.7	867.1	859.9
40°	3172.8	2249.8	818.1	858.3	988.7	1072.4	1017.1	906.5	791.2	737.6	733.6
42.5°	3229.7	2113.9	754.9	846.6	998.1	1100.0	998.1	838.6	713.1	681.5	676.8
45°	3314.2	1958.4	720.1	841.0	1012.3	1110.3	991.8	788.9	681.5	656.2	656.2
47.5°	3409.8	1809.9	701.2	837.0	1030.5	1103.1	935.8	773.0	666.5	669.6	684.7
50°	3504.5	1681.2	687.0	828.4	1046.3	1099.2	912.8	772.3	670.4	710.7	737.6
52.5°	3614.3	1590.4	669.6	814.2	1046.3	1074.0	905.8	788.1	681.5	693.3	705.2
55°	3747.0	1562.0	647.5	783.3	1027.4	1010.8	901.8	811.0	689.4	661.7	666.5
57.5°	3922.3	1607.7	626.2	744.6	983.9	945.2	900.2	817.3	671.2	648.3	643.6
60°	4126.0	1698.6	619.9	705.2	924.7	889.2	890.7	799.1	646.0	622.3	626.2
62.5°	4268.9	1753.1	615.9	675.2	859.9	827.5	867.8	777.0	634.9	614.4	618.3
65°	4268.9	1686.7	579.6	629.4	776.2	753.4	840.2	749.4	620.7	597.0	593.1
67.5°	4107.0	1493.3	524.4	560.7	683.8	668.8	801.5	716.2	599.4	581.2	571.7
70°	3685.3	1132.4	454.8	480.1	567.0	580.4	751.8	671.2	563.8	541.7	527.5
71°	3499.8	986.3	425.6	439.1	522.0	541.7	728.1	652.3	548.0	516.5	491.1
72.5°	3142.1	830.7	381.4	386.9	446.2	481.7	678.4	615.9	518.1	473.0	444.6
75°	2387.2	606.4	307.2	304.0	330.1	382.2	574.1	548.8	454.1	393.3	376.7
77.5°	1031.3	330.1	229.8	232.2	224.3	289.8	451.7	471.5	389.3	319.8	304.8
80°	312.7	190.3	157.2	160.3	150.0	194.3	318.2	369.5	312.7	248.8	228.2
82.5°	160.3	113.7	107.4	105.8	95.5	109.8	192.7	252.7	223.5	155.6	137.4
85°	69.5	60.8	52.9	51.3	45.0	39.4	68.7	126.3	118.4	86.9	82.9
87.5°	17.4	15.8	10.3	9.5	5.6	0.8	0.0	0.0	0.0	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)