

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: P651262

Luminaire Tested: **GALN-SA2D-840-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651262  
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-SA2D-840-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13388.7 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G2

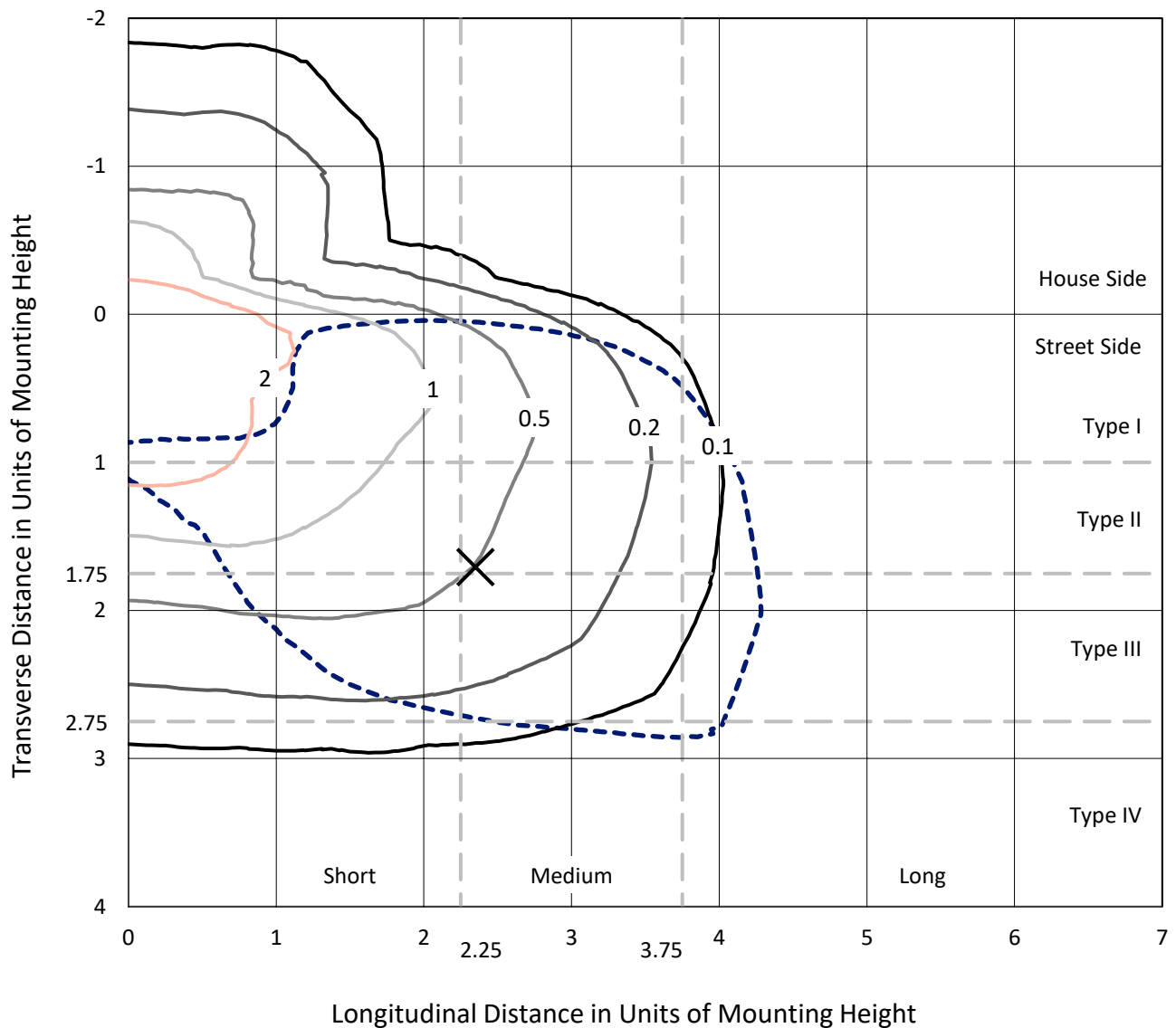
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

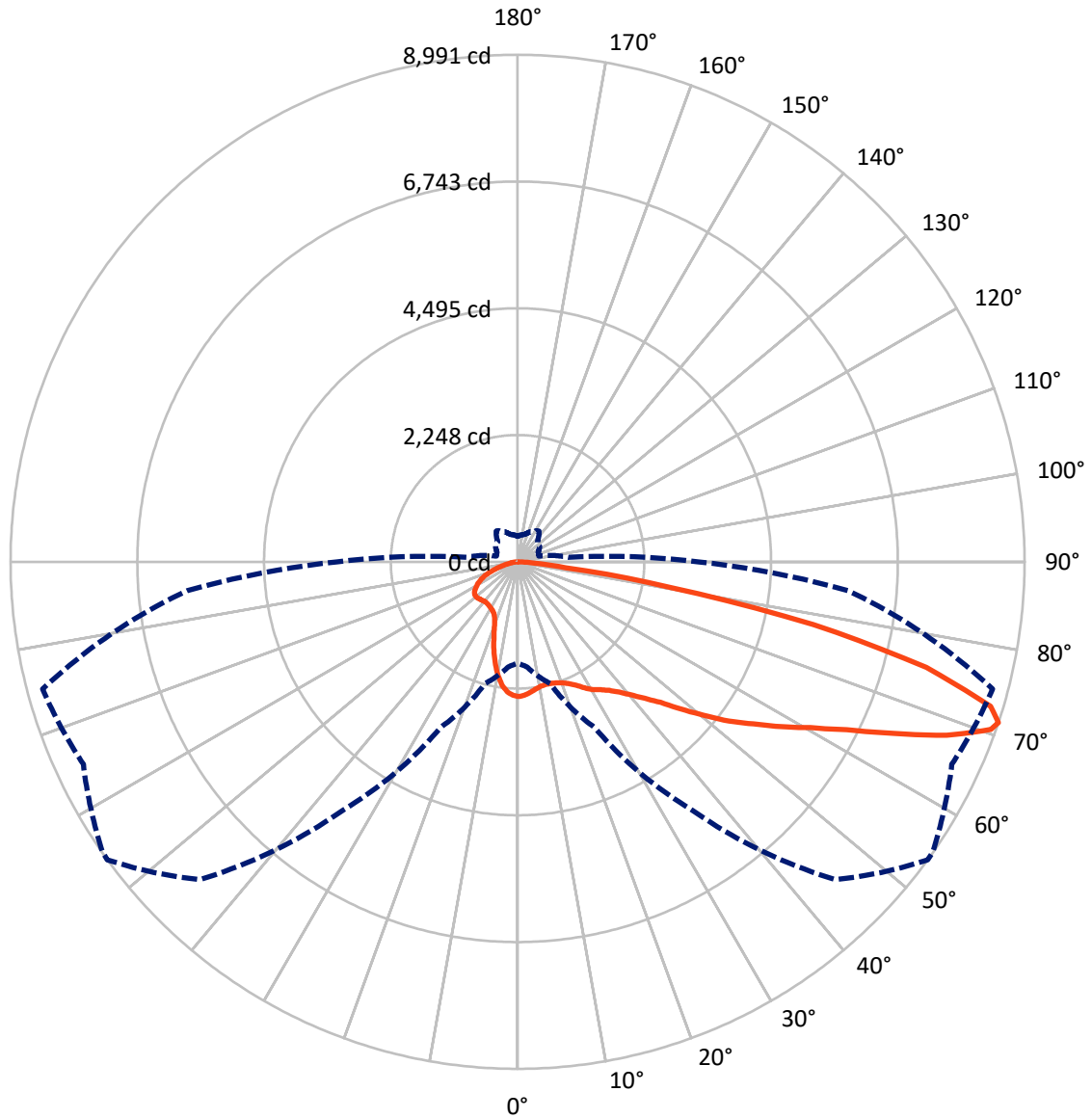
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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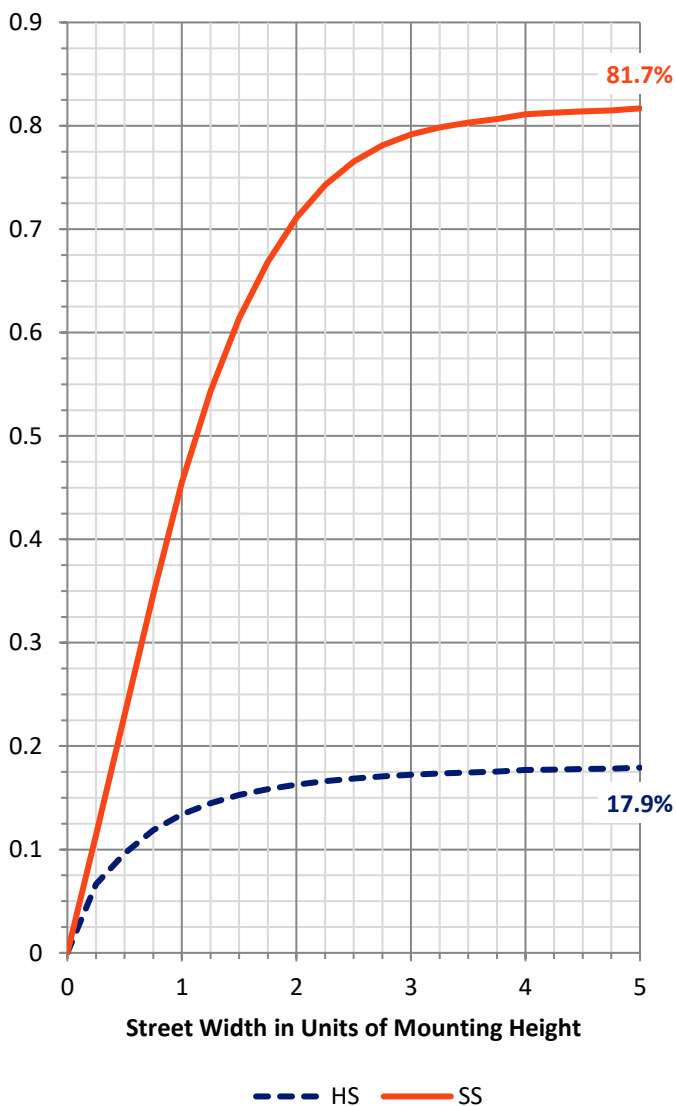
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2417.2	0.0	2417.2
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	10971.5	0.0	10971.5
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	13388.7	0.0	13388.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.9	1.6
10°-20°	562.1	4.2
20°-30°	935.9	7.0
30°-40°	1383.9	10.3
40°-50°	1949.3	14.6
50°-60°	2610.2	19.5
60°-70°	3289.9	24.6
70°-80°	2247.0	16.8
80°-90°	197.6	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°	13388.7	100.0
0°-180°	13388.7	100.0

**Coefficient of Utilization**

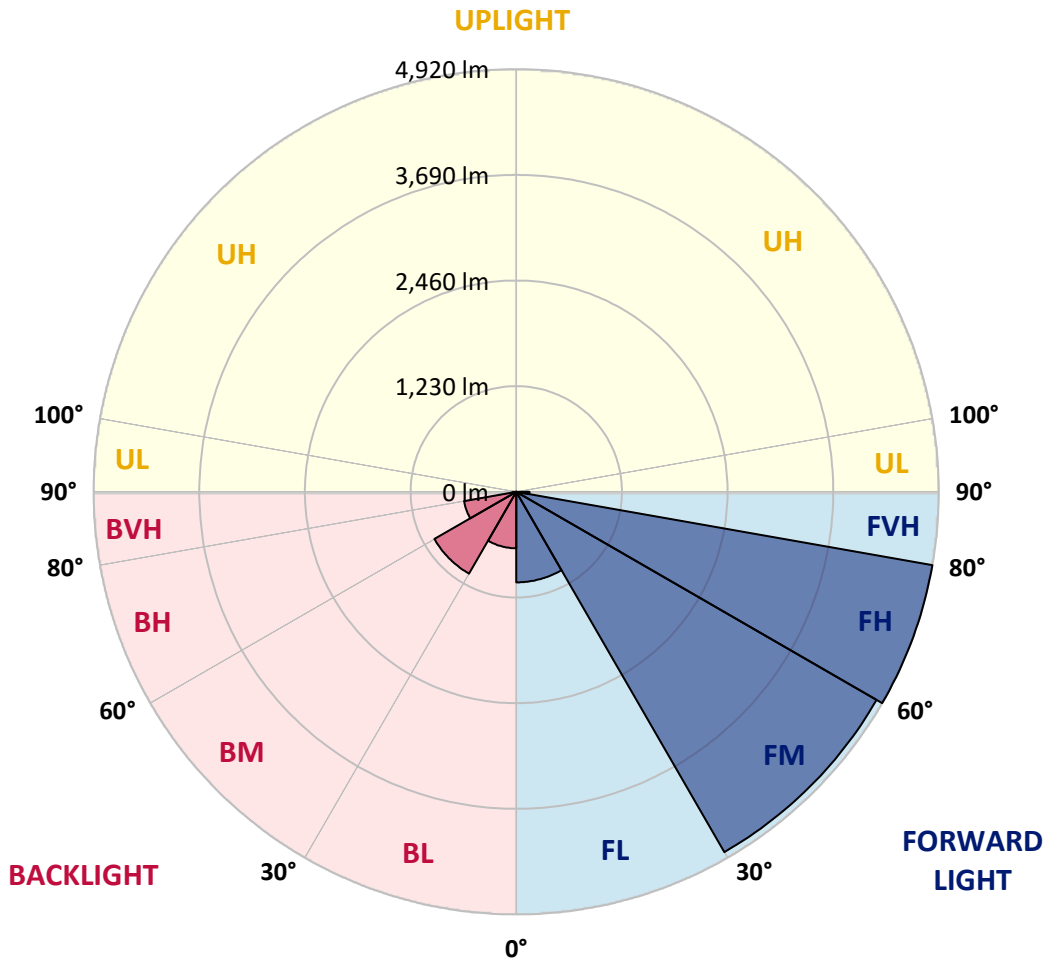


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1053.9	7.9			
FM (30°-60°)	4843.6	36.2			
FH (60°-80°)	4919.5	36.7			G2/5000
FVH (80°-90°)	154.5	1.2			G2/225
BL (0°-30°)	657.0	4.9	B2/1000		
BM (30°-60°)	1099.8	8.2	B2/2500		
BH (60°-80°)	617.4	4.6	B2/1000		G2/1000
BVH (80°-90°)	43.1	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-G2**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2388.8	2388.8	2388.8	2388.8	2388.8	2388.8	2388.8	2388.8	2388.8	2388.8	2388.8
2.5°	2307.8	2318.6	2321.5	2328.7	2343.9	2356.2	2368.5	2367.1	2384.4	2391.6	2398.1
5°	2205.0	2208.0	2218.8	2233.3	2260.0	2294.0	2327.3	2328.0	2370.7	2404.7	2421.3
7.5°	2129.8	2139.3	2146.5	2161.6	2189.9	2226.7	2279.5	2283.9	2359.8	2427.0	2462.5
10°	2080.6	2091.5	2099.5	2118.2	2146.5	2187.7	2244.8	2252.8	2351.9	2462.5	2524.7
12.5°	2035.8	2046.7	2053.9	2078.5	2115.4	2166.0	2230.3	2239.8	2354.7	2503.7	2592.7
15°	2063.3	2072.0	2069.1	2076.3	2100.9	2158.8	2236.1	2245.6	2365.6	2543.5	2659.9
17.5°	2185.5	2192.7	2168.9	2141.4	2129.8	2172.5	2254.2	2264.4	2387.3	2584.7	2728.6
20°	2365.6	2385.2	2333.0	2271.6	2215.9	2221.7	2291.8	2302.7	2417.7	2625.9	2798.8
22.5°	2600.0	2614.4	2550.8	2449.5	2346.8	2294.0	2348.2	2354.7	2463.2	2679.5	2875.5
25°	2875.5	2884.1	2795.9	2665.7	2517.4	2417.7	2425.6	2437.2	2538.5	2740.2	2943.4
27.5°	3143.1	3170.6	3068.6	2909.4	2714.2	2547.8	2531.9	2539.1	2620.1	2774.2	2990.4
30°	3460.5	3458.4	3350.6	3166.2	2916.0	2689.6	2632.5	2631.0	2664.3	2790.9	3024.4
32.5°	3713.7	3743.3	3637.7	3436.7	3146.7	2836.4	2701.9	2699.0	2698.3	2819.8	3075.0
35°	4001.5	4005.9	3908.9	3706.5	3396.2	3020.8	2798.8	2784.3	2767.7	2881.9	3143.7
37.5°	4259.0	4279.2	4190.3	3963.1	3641.4	3212.5	2931.9	2922.5	2871.8	2989.8	3253.7
40°	4460.0	4475.2	4421.6	4205.4	3882.9	3419.3	3101.1	3083.8	3022.3	3166.2	3400.5
42.5°	4525.8	4556.9	4577.9	4471.6	4160.6	3664.5	3309.4	3287.7	3240.7	3433.8	3569.7
45°	4530.9	4580.1	4690.7	4695.8	4439.7	3958.1	3552.4	3537.2	3533.5	3776.6	3807.7
47.5°	4492.5	4542.4	4728.4	4828.9	4688.6	4254.6	3903.2	3879.3	3881.5	4200.4	4074.6
50°	4399.9	4459.3	4685.0	4914.2	4883.1	4562.7	4273.5	4265.5	4310.3	4684.2	4351.5
52.5°	4225.7	4297.3	4640.0	4967.7	5027.8	4828.1	4694.3	4671.9	4785.5	5209.2	4654.5
55°	3743.3	3851.1	4475.9	4997.3	5165.2	5082.0	5073.2	5113.8	5264.2	5782.0	4988.0
57.5°	3491.7	3572.7	4119.4	5002.4	5338.7	5377.0	5515.9	5526.0	5789.3	6390.3	5364.7
60°	3354.2	3425.8	3924.1	4969.1	5581.0	5742.3	5968.6	6004.7	6302.0	7049.1	5755.3
62.5°	3234.1	3295.6	3807.0	4854.2	5854.4	6284.0	6555.1	6572.5	6884.2	7776.6	6140.7
65°	2951.4	3021.5	3571.2	4739.2	6090.1	6960.9	7333.3	7313.1	7504.0	8404.4	6382.3
67.5°	2570.3	2659.2	3130.8	4342.1	6206.6	7700.7	8209.8	8184.5	8115.8	8815.9	6451.7
70°	2083.6	2131.3	2567.4	3655.8	5741.5	8089.1	8901.9	8875.2	8494.8	8870.1	6123.4
71°	1792.8	1867.4	2235.5	3247.2	5354.6	7970.4	8990.9	8983.6	8495.5	8720.4	5876.1
72.5°	1399.4	1444.9	1770.4	2516.0	4551.2	7296.4	8771.0	8798.5	8311.1	8304.5	5366.2
75°	885.2	905.4	1110.9	1481.1	2497.3	5167.3	7487.3	7561.9	7379.6	6797.4	3990.6
77.5°	514.2	540.3	665.3	872.9	1079.0	2804.6	5357.5	5438.5	5127.5	3742.6	1633.7
80°	299.4	328.3	438.2	507.0	495.4	1040.7	2728.0	2866.0	2220.2	945.2	458.5
82.5°	166.3	185.9	308.1	308.8	264.0	339.9	858.4	898.2	633.5	381.1	187.3
85°	120.8	136.7	198.9	180.1	126.6	146.1	298.7	313.2	256.0	160.5	60.7
87.5°	42.6	60.7	109.2	86.8	34.7	30.4	86.0	70.1	65.1	44.8	13.7
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°	2388.8	2388.8	2388.8	2388.8	2388.8	2388.8	2388.8	2388.8	2388.8	2388.8	2388.8
2.5°	2401.7	2403.2	2396.0	2383.0	2369.9	2353.3	2334.5	2320.1	2313.5	2312.8	2312.1
5°	2427.8	2431.4	2403.9	2363.5	2318.6	2263.6	2216.6	2163.1	2149.3	2127.6	2134.2
7.5°	2469.8	2467.6	2413.3	2327.3	2222.4	2105.9	2007.6	1950.4	1891.2	1874.6	1875.3
10°	2529.8	2516.0	2413.3	2253.5	2078.5	1905.6	1768.2	1681.4	1634.5	1595.4	1580.9
12.5°	2593.4	2558.7	2390.2	2150.1	1893.3	1681.4	1533.9	1416.7	1386.4	1354.6	1355.3
15°	2654.2	2596.3	2344.6	2004.7	1693.8	1442.1	1298.8	1228.7	1219.3	1222.9	1222.2
17.5°	2709.1	2623.1	2275.2	1842.7	1460.9	1236.7	1160.7	1165.8	1191.1	1209.2	1211.4
20°	2764.8	2639.0	2171.8	1625.7	1241.0	1112.3	1115.2	1154.9	1193.3	1217.9	1221.5
22.5°	2817.6	2646.2	2050.3	1416.1	1081.9	1059.5	1102.1	1144.9	1182.4	1206.3	1209.9
25°	2852.3	2629.6	1878.1	1196.9	1003.8	1040.7	1085.6	1121.7	1153.5	1178.1	1183.9
27.5°	2861.8	2576.1	1664.8	1019.7	967.7	1022.6	1063.9	1090.6	1115.2	1138.3	1142.7
30°	2856.6	2497.3	1430.5	915.6	946.7	1001.6	1033.4	1053.0	1082.6	1100.7	1104.3
32.5°	2848.7	2405.3	1186.1	859.9	929.3	982.1	1000.9	1018.3	1017.5	1010.3	1015.3
35°	2851.6	2295.4	987.9	826.6	914.2	967.7	983.5	961.9	899.7	896.8	893.9
37.5°	2866.8	2186.9	843.9	803.5	906.2	965.5	974.1	874.4	819.4	794.1	787.6
40°	2905.8	2060.4	749.2	786.1	905.4	982.1	931.5	830.2	724.7	675.5	671.9
42.5°	2957.9	1936.0	691.4	775.2	914.2	1007.4	914.2	768.1	653.0	624.1	619.8
45°	3035.3	1793.5	659.6	770.2	927.1	1016.9	908.4	722.5	624.1	601.0	601.0
47.5°	3122.8	1657.6	642.2	766.6	943.8	1010.3	857.0	708.0	610.4	613.3	627.0
50°	3209.6	1539.7	629.2	758.7	958.2	1006.7	836.0	707.3	614.0	650.8	675.5
52.5°	3310.1	1456.5	613.3	745.6	958.2	983.5	829.5	721.7	624.1	635.0	645.8
55°	3431.6	1430.5	593.0	717.5	940.9	925.7	825.9	742.8	631.3	606.0	610.4
57.5°	3592.2	1472.4	573.5	682.0	901.1	865.6	824.4	748.5	614.7	593.7	589.4
60°	3778.8	1555.6	567.7	645.8	846.9	814.3	815.8	731.9	591.6	569.9	573.5
62.5°	3909.6	1605.6	564.1	618.3	787.6	757.9	794.8	711.7	581.5	562.6	566.2
65°	3909.6	1544.7	530.8	576.4	710.9	690.0	769.5	686.3	568.4	546.7	543.1
67.5°	3761.4	1367.6	480.2	513.5	626.3	612.6	734.0	656.0	548.9	532.3	523.6
70°	3375.2	1037.0	416.5	439.7	519.2	531.6	688.5	614.7	516.4	496.1	483.1
71°	3205.2	903.3	389.8	402.1	478.0	496.1	666.8	597.4	501.9	473.0	449.9
72.5°	2877.6	760.9	349.3	354.4	408.6	441.2	621.2	564.1	474.4	433.2	407.1
75°	2186.3	555.4	281.3	278.5	302.3	350.0	525.8	502.7	415.9	360.1	345.0
77.5°	944.5	302.3	210.4	212.6	205.4	265.4	413.7	431.8	356.5	292.9	279.1
80°	286.4	174.3	143.9	146.8	137.4	177.9	291.5	338.4	286.4	227.8	209.0
82.5°	146.8	104.1	98.4	96.9	87.5	100.5	176.4	231.4	204.7	142.5	125.8
85°	63.7	55.7	48.4	47.0	41.2	36.2	62.9	115.7	108.5	79.6	75.9
87.5°	15.9	14.5	9.4	8.7	5.0	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)