

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: P651970

Luminaire Tested: **GALN-SA6A-840-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651970  
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-SA6A-840-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22936.6 lumens  
Efficiency: N/A  
Efficacy: 126.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

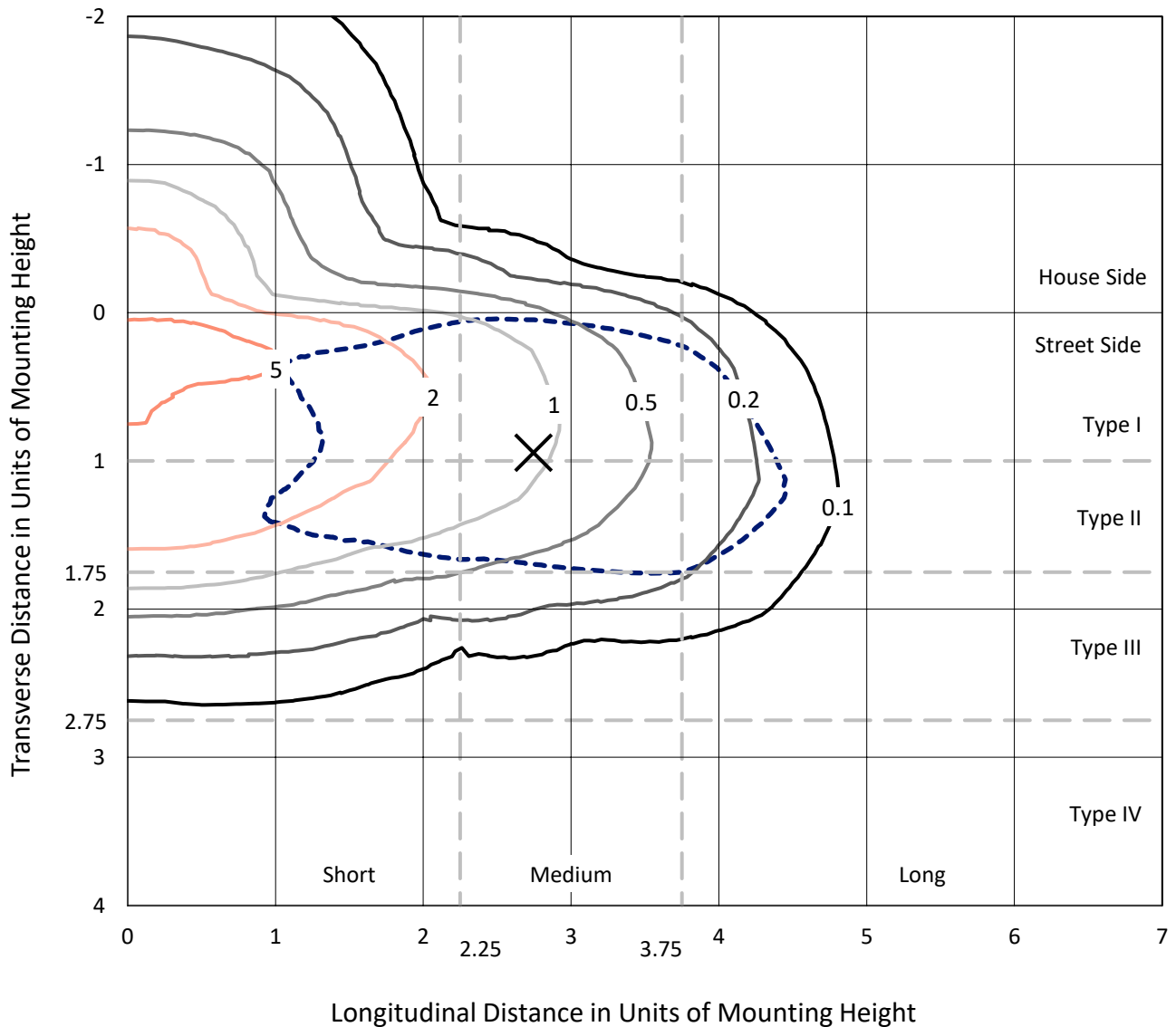
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

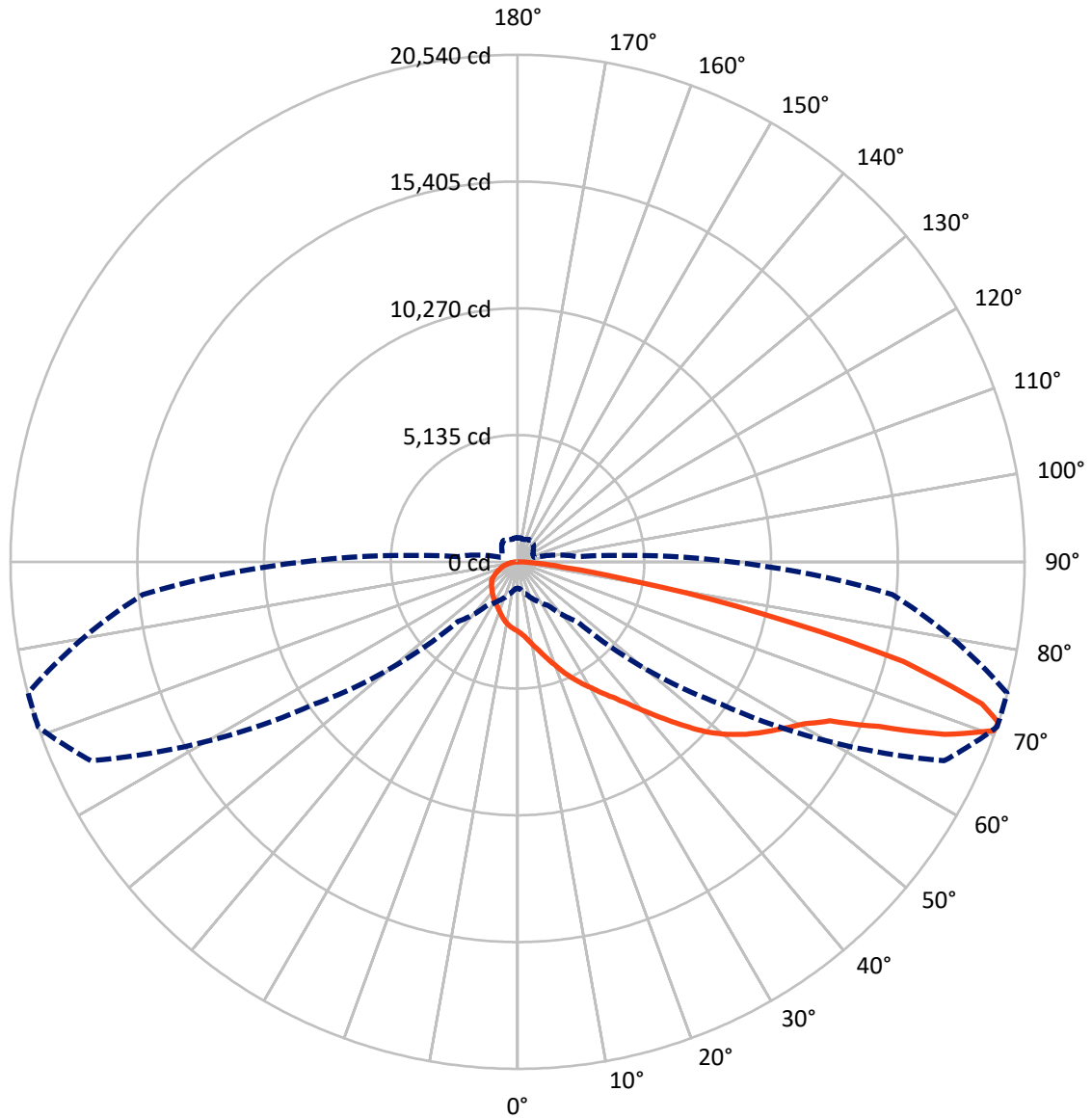
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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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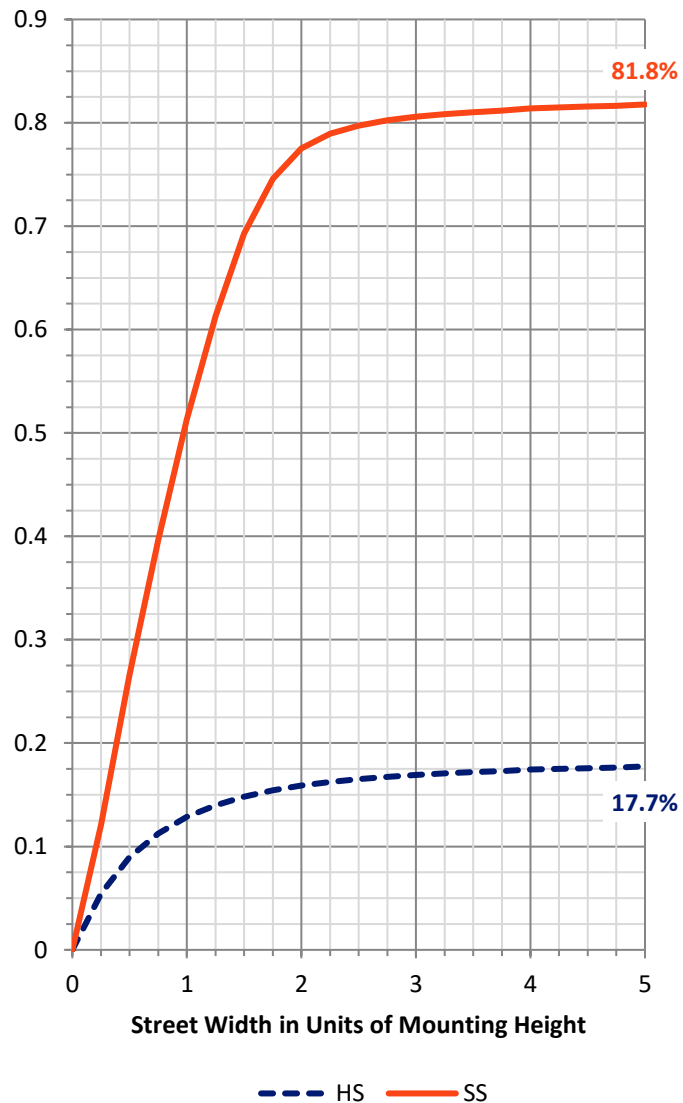
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4125.1	0.0	4125.1
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	18811.5	0.0	18811.5
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	22936.6	0.0	22936.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	282.6	1.2
10°-20°	918.3	4.0
20°-30°	1604.8	7.0
30°-40°	2386.9	10.4
40°-50°	3516.8	15.3
50°-60°	4923.6	21.5
60°-70°	5506.9	24.0
70°-80°	3363.8	14.7
80°-90°	432.7	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°	22936.6	100.0
0°-180°	22936.6	100.0

**Coefficient of Utilization**

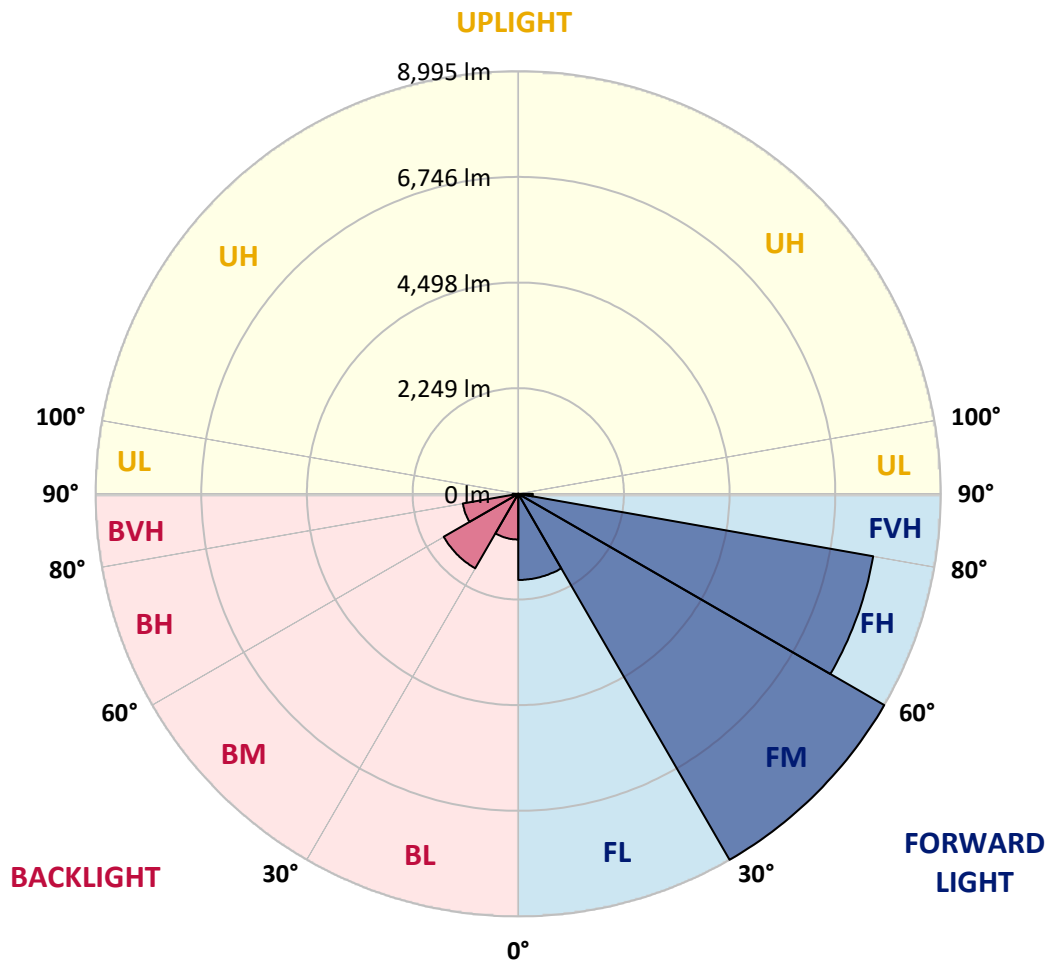


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1832.6	8.0			
FM (30°-60°)	8995.3	39.2			
FH (60°-80°)	7672.2	33.4			G4/12000
FVH (80°-90°)	311.4	1.4			G3/500
BL (0°-30°)	973.1	4.2	B2/1000		
BM (30°-60°)	1832.1	8.0	B2/2500		
BH (60°-80°)	1198.5	5.2	B3/2500		G3/2500
BVH (80°-90°)	121.4	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-G4**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2815.0	2815.0	2815.0	2815.0	2815.0	2815.0	2815.0	2815.0	2815.0	2815.0	2815.0
2.5°	3125.2	3110.0	3111.3	3089.8	3062.1	3031.8	2989.0	2951.2	2920.9	2903.3	2851.6
5°	3463.0	3447.8	3428.9	3382.3	3362.1	3287.7	3193.2	3107.5	3041.9	3005.4	2902.0
7.5°	3736.6	3732.8	3727.7	3701.2	3649.5	3546.2	3465.5	3316.7	3219.7	3150.4	2973.9
10°	3905.4	3911.7	3915.5	3920.6	3899.1	3845.0	3734.0	3546.2	3422.6	3334.4	3067.1
12.5°	3991.2	3997.5	4018.9	4065.6	4094.6	4088.3	3997.5	3813.4	3643.3	3527.2	3166.7
15°	4044.1	4054.2	4092.1	4153.8	4250.9	4312.6	4268.5	4098.4	3911.7	3774.3	3285.2
17.5°	4102.1	4113.5	4155.0	4243.3	4370.7	4504.3	4552.2	4405.9	4203.0	4039.1	3417.6
20°	4134.9	4150.0	4209.3	4325.3	4474.0	4668.1	4827.0	4750.1	4528.2	4346.7	3570.1
22.5°	4187.8	4200.5	4250.9	4374.5	4552.2	4795.5	5101.8	5085.4	4890.0	4655.5	3737.8
25°	4331.6	4351.8	4377.0	4451.3	4622.8	4925.3	5330.0	5443.5	5240.5	4978.3	3891.6
27.5°	4602.6	4619.0	4617.8	4627.9	4724.9	5037.5	5527.9	5797.7	5588.4	5304.8	4040.3
30°	4911.4	4917.7	4922.8	4900.1	4921.5	5152.2	5709.5	6148.1	5938.9	5640.1	4170.2
32.5°	5287.1	5299.7	5256.8	5198.9	5181.2	5322.4	5859.5	6498.6	6353.7	5980.5	4298.8
35°	5730.9	5763.6	5676.7	5574.6	5502.7	5567.0	6061.2	6856.7	6778.5	6415.4	4469.0
37.5°	6237.7	6278.0	6197.3	5996.8	5894.7	5912.4	6324.7	7299.1	7315.5	6910.8	4722.4
40°	6652.4	6705.4	6707.9	6424.2	6269.2	6289.3	6658.7	7775.6	7963.5	7523.5	5021.1
42.5°	6926.0	6977.7	7031.9	6865.4	6702.9	6817.6	7048.3	8292.5	8692.2	8267.3	5438.4
45°	7226.0	7272.6	7302.9	7227.3	7136.5	7434.0	7518.5	8842.1	9468.7	9098.0	5894.7
47.5°	7574.0	7625.6	7654.6	7582.8	7548.7	7974.8	8025.2	9355.2	10298.2	9904.9	6399.0
50°	8037.9	8077.0	8061.8	8016.4	8008.8	8389.6	8511.8	9835.5	10982.7	10773.5	6922.2
52.5°	8615.2	8661.9	8678.3	8613.9	8585.0	8685.8	8903.9	10273.0	11605.5	11519.8	7480.6
55°	8964.4	9038.8	9288.4	9389.3	9458.6	9069.1	9326.3	10755.8	12164.0	12306.4	8080.7
57.5°	8516.9	8612.7	9171.2	9675.5	10327.1	10027.2	9925.1	11260.1	12722.4	13069.1	8799.3
60°	7425.2	7446.6	8166.4	9095.5	10406.6	11258.8	11174.4	12061.8	13327.5	13838.1	9746.0
62.5°	5151.0	5196.4	6047.3	7529.8	9425.8	11702.5	13299.7	13446.0	14194.8	14989.1	11134.0
65°	2656.2	2596.9	3372.2	4732.5	7106.3	10648.7	15021.8	15991.3	16075.7	16789.2	13088.0
67.5°	1635.1	1661.6	2024.6	2763.4	4201.7	7739.1	14841.5	19101.2	18656.2	18999.1	14902.0
70°	1227.9	1260.7	1510.3	1891.0	2561.6	4424.8	11935.7	19855.1	20476.6	20388.4	15454.2
71°	1067.7	1101.8	1361.5	1720.8	2152.0	3415.0	10056.2	19066.0	20539.7	20524.5	15246.2
72.5°	910.2	931.6	1134.6	1457.3	1814.0	2394.0	7555.0	17099.4	19663.5	20166.5	14503.7
75°	714.8	731.2	821.9	1111.9	1428.3	1469.9	4054.2	12819.4	16150.1	17108.2	12074.4
77.5°	582.4	593.7	640.4	825.7	1101.8	1041.3	2126.7	8344.1	10117.9	11082.3	7112.5
80°	462.6	475.2	503.0	559.7	825.7	742.5	1014.8	4228.2	4887.5	4877.5	2839.0
82.5°	359.3	363.1	395.9	411.0	564.7	527.0	549.7	1790.2	1983.0	2048.5	1024.9
85°	226.9	238.3	350.4	315.1	337.8	308.9	271.1	711.0	876.2	863.5	409.7
87.5°	69.3	73.1	118.5	133.6	150.0	134.9	99.6	209.2	255.9	277.4	102.1
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°	2815.0	2815.0	2815.0	2815.0	2815.0	2815.0	2815.0	2815.0	2815.0	2815.0	2815.0
2.5°	2831.4	2817.5	2768.4	2728.0	2690.2	2648.6	2613.3	2603.2	2594.4	2590.6	2589.4
5°	2857.9	2816.3	2719.2	2639.8	2576.7	2518.8	2482.2	2465.8	2449.4	2449.4	2454.5
7.5°	2895.7	2820.0	2670.0	2551.5	2472.1	2417.9	2391.5	2388.9	2392.7	2396.5	2397.8
10°	2937.3	2817.5	2598.2	2450.7	2380.1	2354.9	2356.1	2377.6	2397.8	2412.8	2415.4
12.5°	2977.6	2802.4	2513.7	2356.1	2310.7	2315.8	2351.1	2399.0	2438.1	2459.5	2460.8
15°	3023.1	2778.5	2411.6	2266.7	2251.5	2290.5	2356.1	2429.2	2488.5	2523.8	2527.6
17.5°	3060.8	2738.1	2304.4	2179.6	2198.5	2270.4	2361.2	2455.7	2527.6	2571.7	2579.3
20°	3103.7	2686.4	2193.5	2096.4	2150.7	2247.7	2351.1	2453.2	2527.6	2570.4	2580.5
22.5°	3137.8	2613.3	2087.6	2028.4	2107.8	2220.0	2317.0	2399.0	2459.5	2482.2	2497.3
25°	3151.6	2521.3	1988.0	1972.9	2073.7	2174.6	2240.2	2286.8	2305.7	2303.2	2309.5
27.5°	3144.1	2415.4	1902.3	1928.7	2030.9	2104.0	2136.8	2133.0	2099.0	2067.4	2082.6
30°	3112.5	2289.3	1830.4	1883.4	1975.4	2015.8	2010.7	1961.5	1897.3	1838.0	1841.8
32.5°	3055.8	2153.2	1763.7	1831.7	1897.3	1915.0	1880.9	1816.6	1724.6	1647.7	1636.3
35°	3007.9	2023.4	1704.4	1772.5	1819.1	1810.3	1777.5	1694.3	1611.1	1543.1	1531.7
37.5°	3000.4	1912.4	1647.7	1705.6	1732.1	1719.5	1679.1	1608.6	1578.3	1526.7	1520.4
40°	3040.6	1834.2	1589.7	1635.1	1647.7	1637.6	1593.4	1553.1	1580.8	1568.2	1568.2
42.5°	3150.4	1792.6	1538.0	1564.4	1574.5	1582.1	1550.6	1516.6	1550.6	1492.6	1473.7
45°	3324.3	1793.9	1491.3	1495.1	1525.4	1551.8	1530.5	1480.0	1462.3	1346.4	1323.6
47.5°	3580.2	1836.7	1453.5	1429.5	1483.8	1527.9	1497.7	1424.5	1346.4	1269.5	1255.6
50°	3879.0	1913.7	1419.5	1361.5	1428.3	1497.7	1474.9	1389.2	1308.5	1261.9	1253.1
52.5°	4210.6	2010.7	1377.9	1285.9	1360.2	1483.8	1480.0	1384.2	1273.3	1241.7	1234.2
55°	4620.3	2106.5	1326.2	1197.6	1299.7	1472.4	1466.1	1342.6	1265.7	1243.0	1240.5
57.5°	5096.8	2245.2	1251.8	1108.1	1230.4	1425.7	1412.0	1317.3	1240.5	1224.1	1222.8
60°	5864.5	2460.8	1145.9	1026.2	1159.8	1343.8	1361.5	1274.5	1200.1	1196.3	1195.1
62.5°	6874.2	2763.4	1036.3	941.7	1077.8	1238.0	1288.4	1216.5	1157.3	1176.1	1178.7
65°	8268.5	3018.0	922.8	869.8	987.1	1135.9	1219.0	1162.3	1109.4	1145.9	1145.9
67.5°	9177.5	3023.1	819.4	795.5	895.1	1050.2	1145.9	1098.0	1047.6	1109.4	1111.9
70°	8988.4	2648.6	733.7	717.3	805.5	958.1	1065.2	1027.4	969.4	1024.9	1004.7
71°	8683.3	2440.6	699.6	687.0	770.3	914.0	1027.4	995.9	937.9	974.5	963.1
72.5°	8196.7	2119.2	644.2	646.7	717.3	858.5	974.5	941.7	883.7	903.9	900.1
75°	6928.5	1850.6	550.9	562.2	616.5	764.0	868.6	843.4	784.1	784.1	780.4
77.5°	4331.6	1293.5	457.6	463.9	523.2	654.3	746.3	724.9	668.2	649.3	644.2
80°	1616.1	668.2	358.0	365.6	402.2	515.6	617.7	597.5	539.6	518.1	498.0
82.5°	611.4	335.3	263.5	257.2	296.3	393.3	484.1	460.1	414.8	363.1	347.9
85°	230.7	166.4	161.4	156.3	174.0	233.2	300.1	295.0	247.1	210.5	206.7
87.5°	60.6	54.2	63.0	46.7	49.2	44.2	45.4	18.9	8.8	3.8	2.5
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)