

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: P648010

Luminaire Tested: **GALN-SA6A-835-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648010  
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-835-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21354.8 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

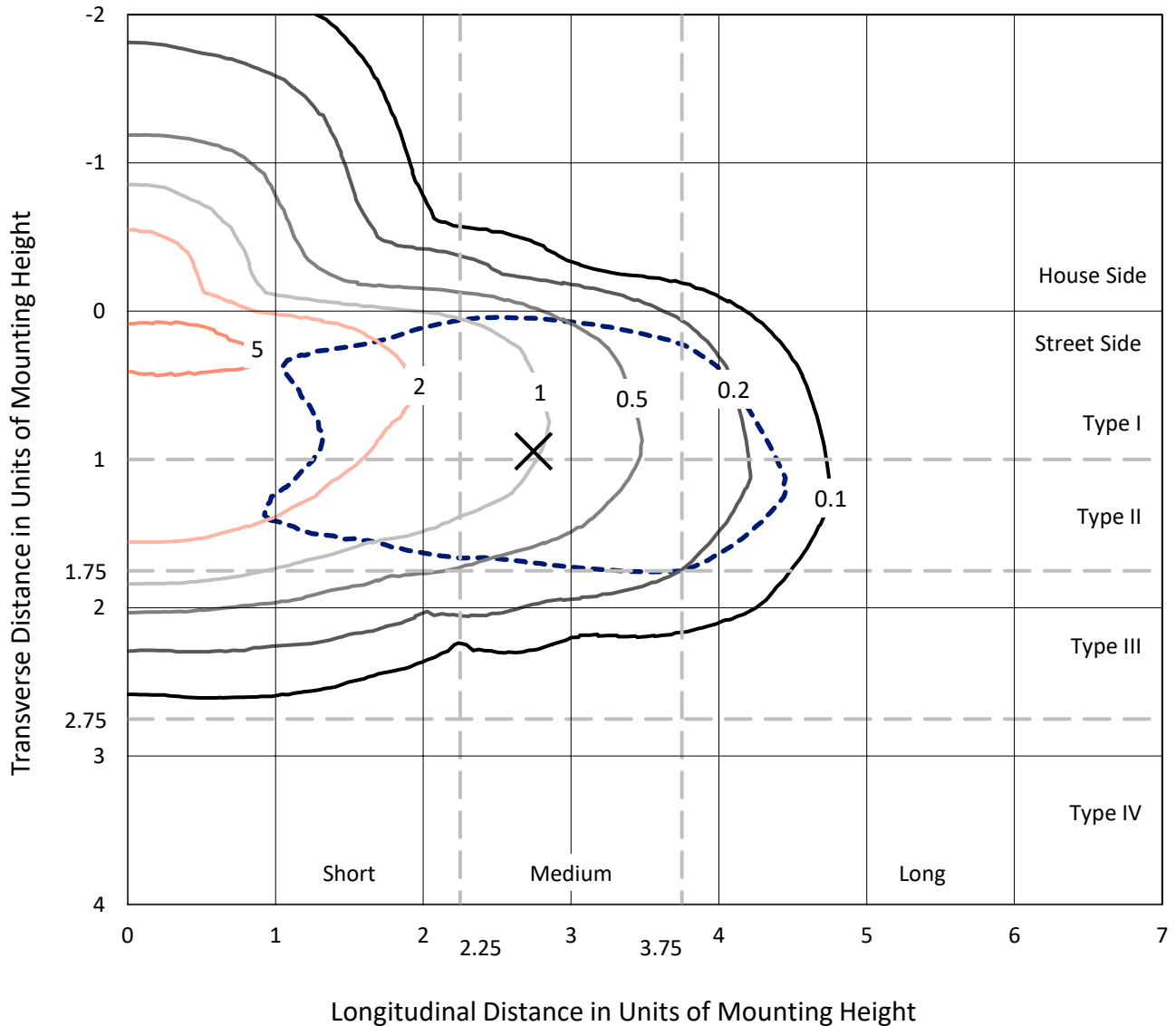
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

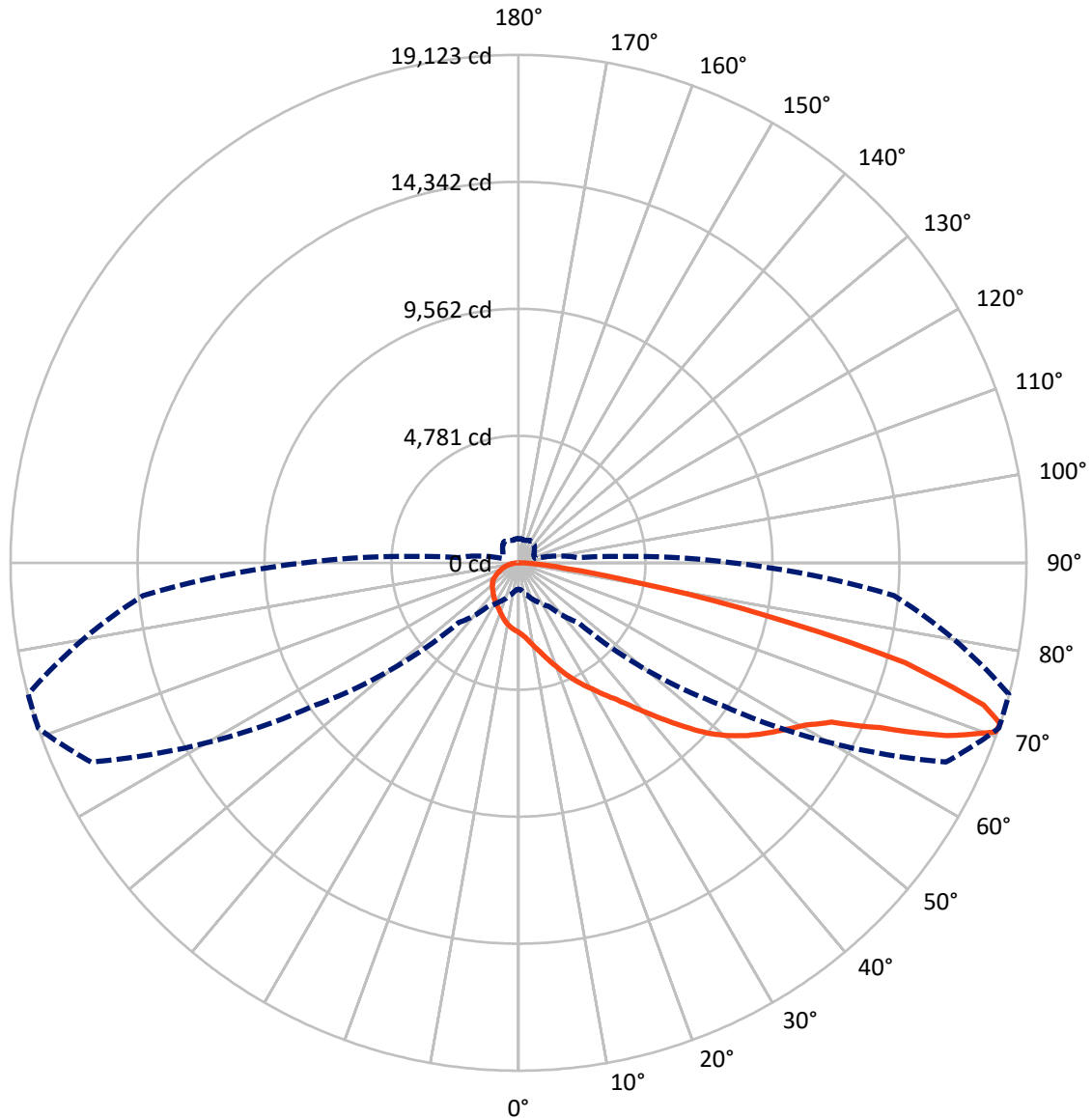
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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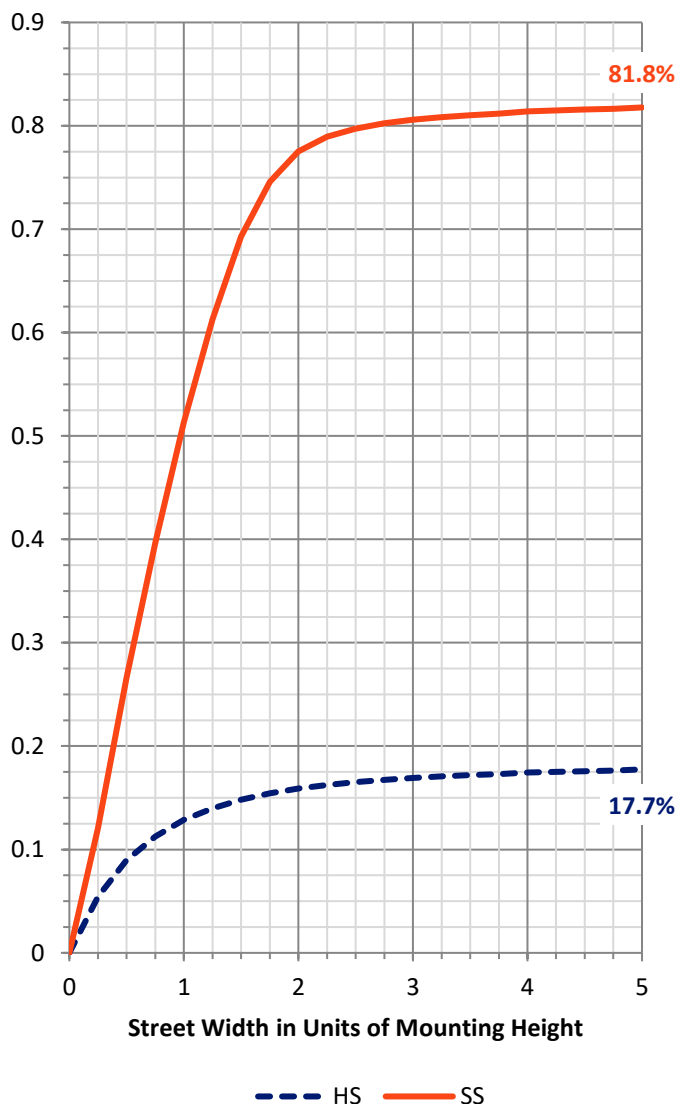
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3840.6	0.0	3840.6
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	17514.1	0.0	17514.1
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	21354.8	0.0	21354.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	263.2	1.2
10°-20°	855.0	4.0
20°-30°	1494.1	7.0
30°-40°	2222.3	10.4
40°-50°	3274.3	15.3
50°-60°	4584.1	21.5
60°-70°	5127.1	24.0
70°-80°	3131.8	14.7
80°-90°	402.9	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°	21354.8	100.0
0°-180°	21354.8	100.0

**Coefficient of Utilization**

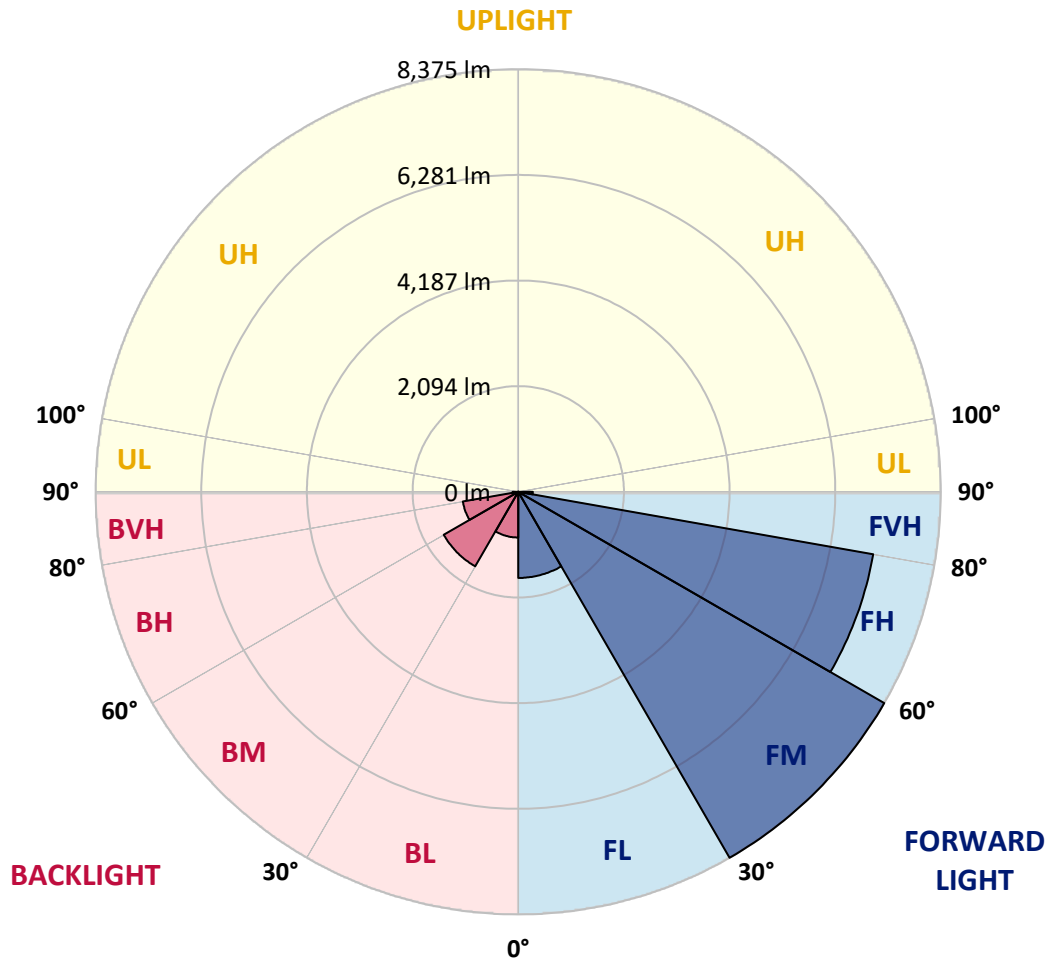


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1706.3	8.0			
FM (30°-60°)	8374.9	39.2			
FH (60°-80°)	7143.1	33.4			G3/7500
FVH (80°-90°)	289.9	1.4			G3/500
BL (0°-30°)	906.0	4.2	B2/1000		
BM (30°-60°)	1705.8	8.0	B2/2500		
BH (60°-80°)	1115.9	5.2	B3/2500		G3/2500
BVH (80°-90°)	113.0	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-G3**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2620.9	2620.9	2620.9	2620.9	2620.9	2620.9	2620.9	2620.9	2620.9	2620.9	2620.9
2.5°	2909.6	2895.5	2896.7	2876.7	2850.9	2822.7	2782.9	2747.6	2719.4	2703.1	2654.9
5°	3224.2	3210.1	3192.4	3149.1	3130.3	3061.0	2973.0	2893.2	2832.1	2798.1	2701.9
7.5°	3478.9	3475.3	3470.6	3446.0	3397.8	3301.6	3226.5	3088.0	2997.6	2933.1	2768.8
10°	3636.1	3642.0	3645.5	3650.2	3630.2	3579.8	3476.5	3301.6	3186.6	3104.4	2855.6
12.5°	3716.0	3721.8	3741.7	3785.2	3812.2	3806.3	3721.8	3550.4	3392.0	3284.0	2948.3
15°	3765.2	3774.6	3809.8	3867.3	3957.8	4015.2	3974.1	3815.7	3642.0	3514.0	3058.6
17.5°	3819.2	3829.8	3868.5	3950.7	4069.3	4193.7	4238.2	4102.1	3913.1	3760.5	3181.9
20°	3849.8	3863.8	3919.0	4027.0	4165.5	4346.2	4494.1	4422.5	4215.9	4046.9	3323.9
22.5°	3899.0	3910.8	3957.8	4072.8	4238.2	4464.7	4750.0	4734.7	4552.8	4334.5	3480.0
25°	4032.8	4051.6	4075.1	4144.3	4304.0	4585.6	4962.4	5068.0	4879.1	4635.0	3623.3
27.5°	4285.2	4300.5	4299.3	4308.7	4399.1	4690.1	5146.7	5397.8	5203.0	4938.9	3761.7
30°	4572.7	4578.6	4583.3	4562.1	4582.1	4796.9	5315.7	5724.1	5529.3	5251.1	3882.6
32.5°	4922.5	4934.2	4894.3	4840.3	4823.9	4955.4	5455.4	6050.4	5915.5	5568.1	4002.3
35°	5335.7	5366.1	5285.2	5190.1	5123.2	5183.1	5643.2	6383.8	6311.0	5973.0	4160.8
37.5°	5807.5	5845.0	5769.9	5583.3	5488.2	5504.6	5888.5	6795.7	6811.0	6434.2	4396.7
40°	6193.6	6242.9	6245.3	5981.2	5836.8	5855.6	6199.5	7239.4	7414.3	7004.6	4674.8
42.5°	6448.3	6496.5	6546.9	6391.9	6240.6	6347.4	6562.2	7720.6	8092.7	7697.1	5063.3
45°	6727.7	6771.1	6799.3	6728.9	6644.3	6921.3	6999.9	8232.3	8815.6	8470.6	5488.2
47.5°	7051.6	7099.7	7126.7	7059.8	7028.1	7424.8	7471.8	8710.0	9588.0	9221.8	5957.7
50°	7483.5	7519.9	7505.8	7463.6	7456.5	7811.0	7924.8	9157.2	10225.3	10030.5	6444.8
52.5°	8021.1	8064.5	8079.8	8019.9	7992.9	8086.8	8289.9	9564.5	10805.1	10725.3	6964.7
55°	8346.2	8415.4	8647.8	8741.7	8806.2	8443.6	8683.1	10014.0	11325.1	11457.6	7523.5
57.5°	7929.5	8018.7	8538.7	9008.2	9614.9	9335.6	9240.6	10483.5	11845.0	12167.7	8192.5
60°	6913.1	6933.1	7603.2	8468.2	9688.9	10482.3	10403.7	11229.9	12408.4	12883.7	9073.9
62.5°	4795.7	4838.0	5630.2	7010.5	8775.8	10895.4	12382.5	12518.7	13215.9	13955.3	10366.1
65°	2473.0	2417.8	3139.7	4406.1	6616.2	9914.3	13985.8	14888.4	14967.0	15631.3	12185.4
67.5°	1522.3	1547.0	1885.0	2572.8	3911.9	7205.3	13818.0	17783.9	17369.6	17688.8	13874.3
70°	1143.2	1173.7	1406.1	1760.6	2384.9	4119.7	11112.6	18485.8	19064.4	18982.3	14388.4
71°	994.1	1025.8	1267.6	1602.1	2003.5	3179.5	9362.6	17751.1	19123.1	19109.0	14194.8
72.5°	847.4	867.3	1056.3	1356.8	1688.9	2228.9	7034.0	15920.1	18307.4	18775.7	13503.5
75°	665.5	680.7	765.2	1035.2	1329.8	1368.5	3774.6	11935.3	15036.3	15928.3	11241.7
77.5°	542.2	552.8	596.3	768.7	1025.8	969.5	1980.1	7768.7	9420.1	10318.0	6622.0
80°	430.7	442.5	468.3	521.1	768.7	691.3	944.8	3936.6	4550.4	4541.1	2643.2
82.5°	334.5	338.0	368.6	382.7	525.8	490.6	511.8	1666.7	1846.2	1907.2	954.2
85°	211.3	221.8	326.3	293.4	314.5	287.6	252.4	661.9	815.7	804.0	381.5
87.5°	64.5	68.0	110.3	124.4	139.7	125.6	92.7	194.8	238.3	258.2	95.1
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°	2620.9	2620.9	2620.9	2620.9	2620.9	2620.9	2620.9	2620.9	2620.9	2620.9	2620.9
2.5°	2636.1	2623.2	2577.5	2539.9	2504.7	2466.0	2433.1	2423.7	2415.5	2412.0	2410.8
5°	2660.8	2622.0	2531.7	2457.8	2399.0	2345.1	2311.0	2295.8	2280.5	2280.5	2285.2
7.5°	2696.0	2625.6	2485.9	2375.5	2301.6	2251.1	2226.5	2224.2	2227.7	2231.2	2232.4
10°	2734.7	2623.2	2419.0	2281.7	2216.0	2192.5	2193.7	2213.6	2232.4	2246.4	2248.8
12.5°	2772.3	2609.1	2340.4	2193.7	2151.4	2156.1	2189.0	2233.6	2269.9	2289.9	2291.1
15°	2814.6	2586.9	2245.3	2110.3	2096.2	2132.6	2193.7	2261.7	2316.9	2349.8	2353.3
17.5°	2849.7	2549.3	2145.5	2029.3	2046.9	2113.9	2198.4	2286.4	2353.3	2394.3	2401.4
20°	2889.7	2501.1	2042.2	1951.9	2002.4	2092.7	2189.0	2284.0	2353.3	2393.2	2402.6
22.5°	2921.4	2433.1	1943.6	1888.5	1962.4	2066.9	2157.2	2233.6	2289.9	2311.0	2325.1
25°	2934.3	2347.4	1850.9	1836.8	1930.7	2024.6	2085.7	2129.1	2146.7	2144.3	2150.2
27.5°	2927.2	2248.8	1771.1	1795.7	1890.9	1958.9	1989.4	1985.9	1954.2	1924.8	1938.9
30°	2897.9	2131.4	1704.2	1753.5	1839.2	1876.8	1872.1	1826.3	1766.4	1711.2	1714.8
32.5°	2845.0	2004.7	1642.0	1705.4	1766.4	1782.9	1751.2	1691.3	1605.6	1534.1	1523.5
35°	2800.5	1883.8	1586.8	1650.3	1693.6	1685.4	1654.9	1577.4	1500.0	1436.6	1426.1
37.5°	2793.4	1780.5	1534.1	1588.0	1612.7	1600.9	1563.3	1497.6	1469.5	1421.4	1415.5
40°	2830.9	1707.7	1480.0	1522.3	1534.1	1524.7	1483.6	1446.0	1471.8	1460.1	1460.1
42.5°	2933.1	1669.0	1432.0	1456.5	1465.9	1473.0	1443.6	1412.0	1443.6	1389.7	1372.1
45°	3095.0	1670.1	1388.5	1392.0	1420.2	1444.8	1424.9	1377.9	1361.5	1253.5	1232.4
47.5°	3333.3	1710.1	1353.3	1330.9	1381.4	1422.6	1394.4	1326.2	1253.5	1181.9	1169.0
50°	3611.5	1781.7	1321.6	1267.6	1329.8	1394.4	1373.2	1293.4	1218.3	1174.9	1166.7
52.5°	3920.2	1872.1	1282.9	1197.2	1266.4	1381.4	1377.9	1288.7	1185.5	1156.1	1149.1
55°	4301.6	1961.3	1234.7	1115.0	1210.0	1370.9	1365.0	1250.0	1178.4	1157.3	1154.9
57.5°	4745.3	2090.4	1165.5	1031.7	1145.5	1327.4	1314.6	1226.5	1154.9	1139.7	1138.5
60°	5460.1	2291.1	1066.9	955.4	1079.8	1251.2	1267.6	1186.6	1117.3	1113.8	1112.6
62.5°	6400.2	2572.8	964.8	876.7	1003.5	1152.6	1199.6	1132.6	1077.5	1095.0	1097.4
65°	7698.3	2809.9	859.2	809.9	919.0	1057.5	1135.0	1082.2	1032.9	1066.9	1066.9
67.5°	8544.6	2814.6	762.9	740.6	833.3	977.7	1066.9	1022.3	975.4	1032.9	1035.2
70°	8368.5	2466.0	683.1	667.8	750.0	892.0	991.7	956.6	902.6	954.2	935.5
71°	8084.5	2272.3	651.4	639.6	717.1	851.0	956.6	927.2	873.2	907.3	896.7
72.5°	7631.4	1973.0	599.8	602.1	667.8	799.3	907.3	876.7	822.8	841.6	838.0
75°	6450.7	1723.0	512.9	523.4	573.9	711.3	808.7	785.2	730.1	730.1	726.5
77.5°	4032.8	1204.3	426.0	431.9	487.1	609.2	694.8	674.9	622.1	604.5	599.8
80°	1504.7	622.1	333.3	340.4	374.4	480.1	575.1	556.3	502.4	482.4	463.6
82.5°	569.2	312.2	245.3	239.4	275.9	366.2	450.7	428.4	386.2	338.0	323.9
85°	214.8	155.0	150.3	145.6	162.0	217.1	279.4	274.7	230.0	196.0	192.5
87.5°	56.4	50.5	58.6	43.5	45.8	41.1	42.3	17.6	8.2	3.5	2.3
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)