

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: P652355

Luminaire Tested: **GALN-SA4B-840-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652355  
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-SA4B-840-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19038.6 lumens  
Efficiency: N/A  
Efficacy: 116.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3

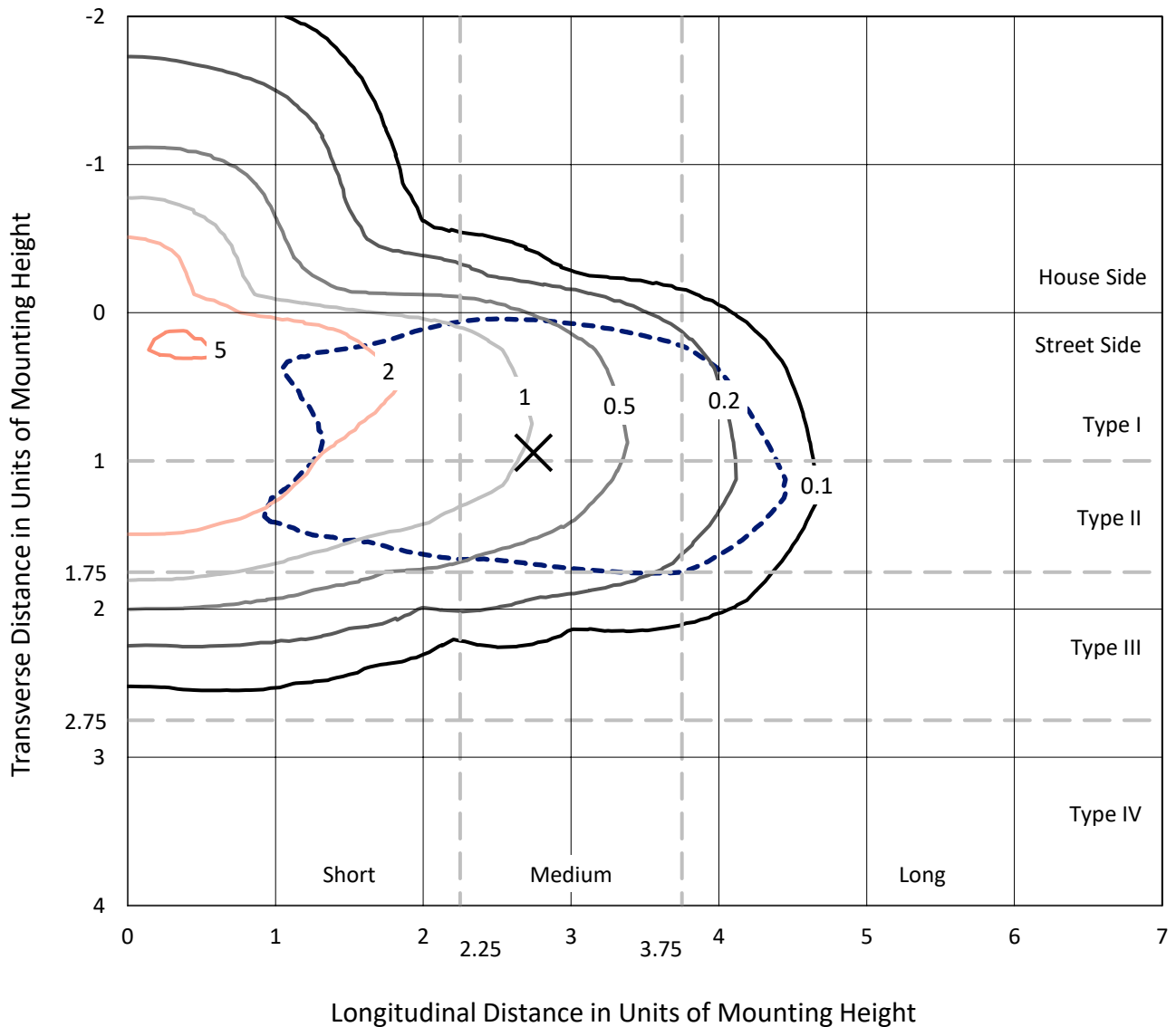
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

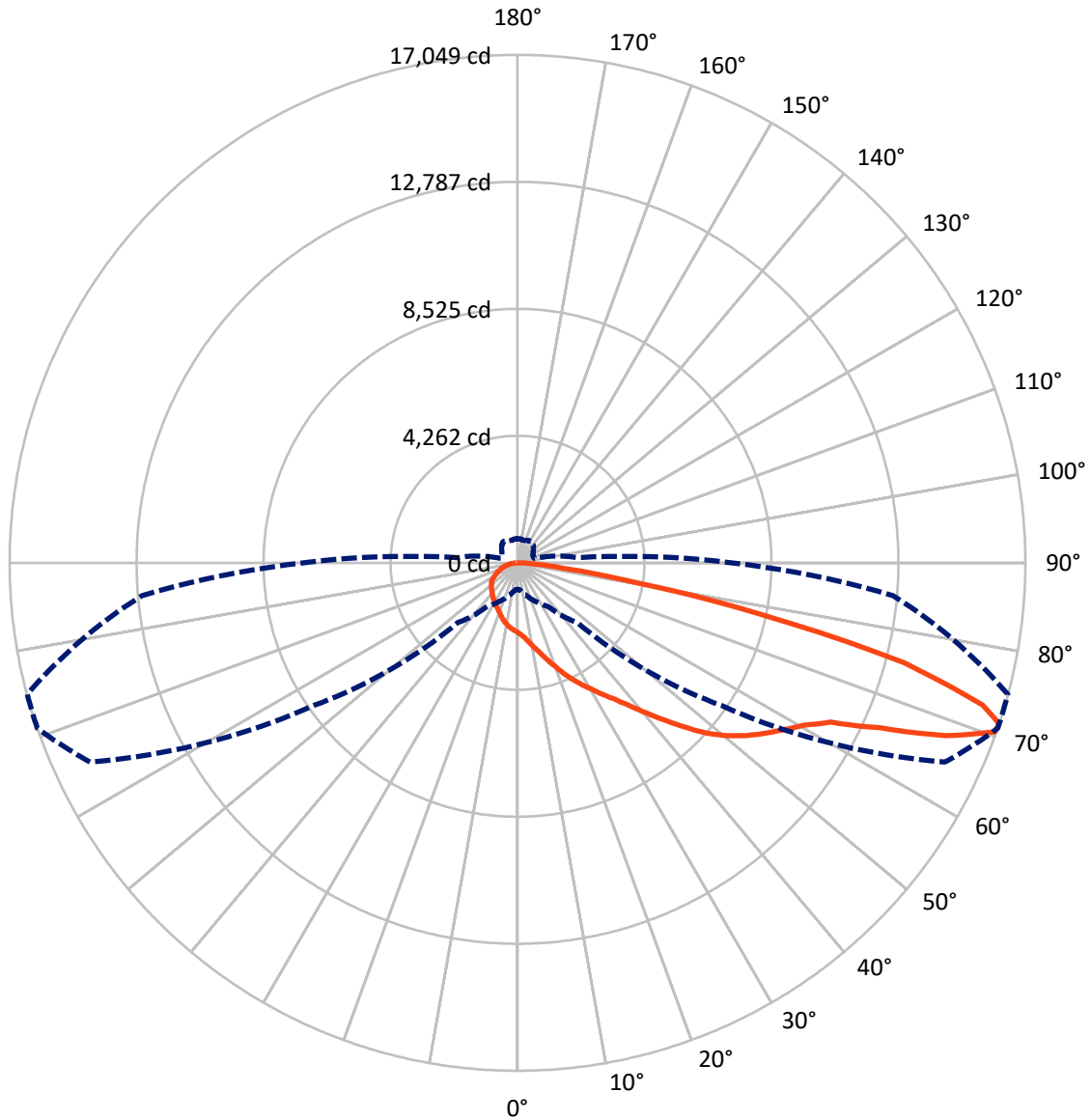
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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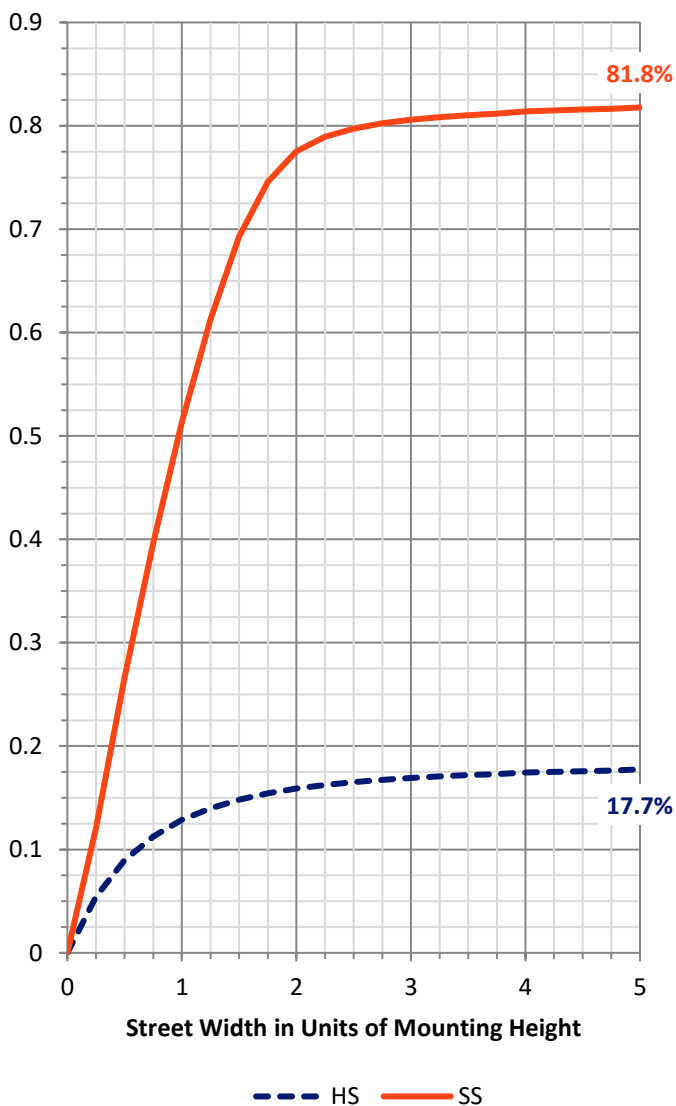
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3424.0	0.0	3424.0
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	15614.5	0.0	15614.5
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	19038.6	0.0	19038.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.6	1.2
10°-20°	762.2	4.0
20°-30°	1332.1	7.0
30°-40°	1981.3	10.4
40°-50°	2919.2	15.3
50°-60°	4086.9	21.5
60°-70°	4571.0	24.0
70°-80°	2792.2	14.7
80°-90°	359.2	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°	19038.6	100.0
0°-180°	19038.6	100.0

**Coefficient of Utilization**

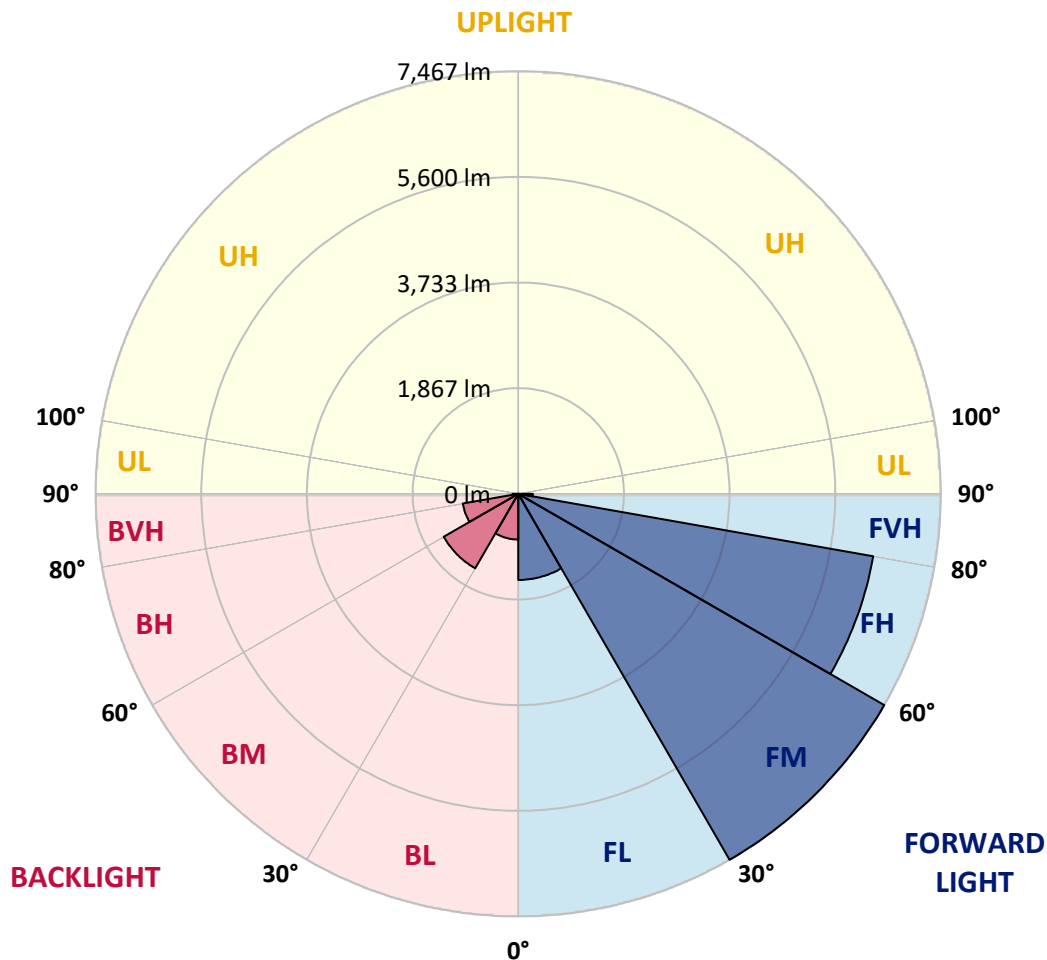


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1521.2	8.0			
FM (30°-60°)	7466.5	39.2			
FH (60°-80°)	6368.3	33.4			G3/7500
FVH (80°-90°)	258.4	1.4			G3/500
BL (0°-30°)	807.7	4.2	B2/1000		
BM (30°-60°)	1520.7	8.0	B2/2500		
BH (60°-80°)	994.8	5.2	B2/1000		G2/1000
BVH (80°-90°)	100.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6
2.5°	2594.0	2581.4	2582.5	2564.7	2541.7	2516.6	2481.0	2449.6	2424.5	2409.9	2367.0
5°	2874.5	2861.9	2846.2	2807.5	2790.8	2729.0	2650.5	2579.3	2524.9	2494.6	2408.8
7.5°	3101.5	3098.4	3094.2	3072.3	3029.3	2943.5	2876.6	2753.1	2672.5	2614.9	2468.4
10°	3241.7	3246.9	3250.1	3254.3	3236.5	3191.5	3099.4	2943.5	2841.0	2767.7	2545.9
12.5°	3312.9	3318.2	3335.9	3374.6	3398.7	3393.4	3318.2	3165.4	3024.1	2927.9	2628.5
15°	3356.9	3365.2	3396.6	3447.8	3528.4	3579.7	3543.1	3401.8	3246.9	3132.9	2726.9
17.5°	3405.0	3414.4	3448.9	3522.2	3627.8	3738.7	3778.5	3657.2	3488.7	3352.6	2836.8
20°	3432.2	3444.7	3493.9	3590.2	3713.7	3874.8	4006.7	3942.9	3758.7	3608.0	2963.4
22.5°	3476.1	3486.6	3528.4	3631.0	3778.5	3980.5	4234.8	4221.1	4059.0	3864.3	3102.5
25°	3595.4	3612.2	3633.1	3694.8	3837.1	4088.3	4424.2	4518.4	4349.9	4132.3	3230.2
27.5°	3820.4	3834.0	3832.9	3841.4	3921.9	4181.4	4588.5	4812.4	4638.7	4403.2	3353.7
30°	4076.7	4082.0	4086.2	4067.3	4085.2	4276.7	4739.1	5103.3	4929.6	4681.6	3461.5
32.5°	4388.6	4399.0	4363.4	4315.3	4300.7	4417.9	4863.7	5394.2	5273.8	4964.1	3568.2
35°	4756.9	4784.1	4712.0	4627.2	4567.6	4620.9	5031.1	5691.4	5626.5	5325.1	3709.5
37.5°	5177.6	5211.1	5144.1	4977.7	4892.9	4907.6	5249.8	6058.6	6072.3	5736.4	3919.8
40°	5521.8	5565.8	5567.9	5332.4	5203.8	5220.5	5527.1	6454.2	6610.1	6244.9	4167.8
42.5°	5748.9	5791.8	5836.8	5698.7	5563.7	5658.9	5850.4	6883.2	7214.9	6862.3	4514.2
45°	5997.9	6036.7	6061.8	5999.0	5923.7	6170.6	6240.7	7339.4	7859.5	7551.8	4892.9
47.5°	6286.7	6329.7	6353.8	6294.0	6265.9	6619.5	6661.4	7765.3	8548.0	8221.5	5311.5
50°	6671.8	6704.3	6691.8	6654.1	6647.8	6963.8	7065.2	8164.0	9116.2	8942.5	5745.8
52.5°	7151.1	7189.8	7203.4	7150.0	7126.0	7209.7	7390.7	8527.1	9633.2	9562.0	6209.4
55°	7440.9	7502.6	7709.9	7793.5	7851.2	7527.8	7741.2	8927.9	10096.7	10215.0	6707.4
57.5°	7069.4	7149.0	7612.6	8031.1	8572.1	8323.0	8238.3	9346.5	10560.3	10848.0	7303.8
60°	6163.3	6181.1	6778.5	7549.7	8638.0	9345.4	9275.3	10011.9	11062.5	11486.3	8089.7
62.5°	4275.6	4313.2	5019.6	6250.1	7823.9	9713.7	11039.5	11160.9	11782.4	12441.7	9241.7
65°	2204.8	2155.6	2799.1	3928.1	5898.5	8838.9	12468.9	13273.6	13343.6	13936.0	10863.7
67.5°	1357.2	1379.2	1680.5	2293.7	3487.6	6423.8	12319.2	15855.0	15485.7	15770.3	12369.5
70°	1019.2	1046.4	1253.6	1569.6	2126.3	3672.9	9907.3	16480.7	16996.6	16923.4	12827.8
71°	886.3	914.6	1130.1	1428.4	1786.2	2834.7	8347.1	15825.8	17049.0	17036.4	12655.1
72.5°	755.5	773.3	941.8	1209.6	1505.7	1987.1	6271.1	14193.4	16321.7	16739.3	12038.8
75°	593.3	606.9	682.2	922.9	1185.6	1220.1	3365.2	10640.8	13405.4	14200.7	10022.4
77.5°	483.4	492.8	531.6	685.4	914.6	864.3	1765.3	6926.1	8398.4	9198.9	5903.8
80°	384.0	394.5	417.5	464.6	685.4	616.4	842.3	3509.7	4056.9	4048.5	2356.5
82.5°	298.2	301.3	328.6	341.1	468.8	437.4	456.2	1485.9	1646.0	1700.4	850.8
85°	188.4	197.8	290.9	261.6	280.5	256.3	225.0	590.1	727.2	716.8	340.1
87.5°	57.5	60.7	98.4	110.9	124.6	111.9	82.7	173.7	212.4	230.2	84.8
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°	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6	2336.6
2.5°	2350.2	2338.7	2297.9	2264.4	2233.0	2198.5	2169.2	2160.8	2153.5	2150.4	2149.3
5°	2372.2	2337.6	2257.1	2191.1	2138.8	2090.7	2060.4	2046.7	2033.1	2033.1	2037.3
7.5°	2403.6	2340.8	2216.3	2117.9	2052.0	2007.0	1985.0	1982.9	1986.1	1989.2	1990.2
10°	2438.1	2338.7	2156.7	2034.2	1975.6	1954.7	1955.7	1973.5	1990.2	2002.8	2004.9
12.5°	2471.6	2326.1	2086.5	1955.7	1918.1	1922.3	1951.5	1991.3	2023.7	2041.5	2042.5
15°	2509.3	2306.3	2001.7	1881.4	1868.9	1901.3	1955.7	2016.4	2065.6	2094.9	2098.0
17.5°	2540.7	2272.8	1912.9	1809.2	1824.9	1884.6	1959.9	2038.4	2098.0	2134.6	2140.9
20°	2576.2	2229.9	1820.8	1740.2	1785.2	1865.8	1951.5	2036.3	2098.0	2133.6	2141.9
22.5°	2604.5	2169.2	1732.8	1683.7	1749.6	1842.7	1923.3	1991.3	2041.5	2060.4	2072.9
25°	2616.0	2092.8	1650.2	1637.6	1721.4	1805.0	1859.5	1898.1	1913.9	1911.8	1917.0
27.5°	2609.7	2004.9	1579.0	1601.0	1685.8	1746.4	1773.7	1770.5	1742.2	1716.1	1728.7
30°	2583.6	1900.2	1519.4	1563.3	1639.7	1673.2	1669.0	1628.2	1574.9	1525.7	1528.8
32.5°	2536.5	1787.2	1463.9	1520.4	1574.9	1589.5	1561.2	1507.8	1431.5	1367.6	1358.2
35°	2496.7	1679.5	1414.7	1471.2	1509.9	1502.6	1475.5	1406.3	1337.3	1280.8	1271.3
37.5°	2490.5	1587.4	1367.6	1415.7	1437.8	1427.3	1393.8	1335.2	1310.1	1267.2	1261.9
40°	2523.9	1522.5	1319.5	1357.2	1367.6	1359.3	1322.6	1289.2	1312.2	1301.7	1301.7
42.5°	2614.9	1488.0	1276.6	1298.6	1306.9	1313.2	1287.1	1258.8	1287.1	1239.0	1223.2
45°	2759.3	1489.0	1237.9	1241.1	1266.1	1288.1	1270.3	1228.4	1213.8	1117.5	1098.7
47.5°	2971.8	1524.6	1206.5	1186.7	1231.6	1268.2	1243.1	1182.4	1117.5	1053.7	1042.3
50°	3219.8	1588.4	1178.2	1130.1	1185.6	1243.1	1224.3	1153.1	1086.2	1047.5	1040.1
52.5°	3494.9	1669.0	1143.7	1067.3	1129.0	1231.6	1228.4	1149.0	1056.9	1030.7	1024.4
55°	3835.0	1748.5	1100.8	994.1	1078.8	1222.2	1216.9	1114.4	1050.6	1031.7	1029.6
57.5°	4230.6	1863.7	1039.1	919.8	1021.3	1183.5	1171.9	1093.5	1029.6	1016.0	1015.0
60°	4867.9	2042.5	951.2	851.8	962.7	1115.5	1130.1	1057.9	996.2	993.1	992.0
62.5°	5706.0	2293.7	860.2	781.6	894.7	1027.5	1069.4	1009.8	960.6	976.3	978.4
65°	6863.3	2505.1	766.0	722.0	819.3	942.8	1011.9	964.8	920.8	951.2	951.2
67.5°	7617.8	2509.3	680.2	660.3	742.9	871.6	951.2	911.4	869.6	920.8	922.9
70°	7460.8	2198.5	609.0	595.4	668.7	795.2	884.2	852.8	804.7	850.8	834.0
71°	7207.6	2025.8	580.7	570.3	639.3	758.7	852.8	826.6	778.5	808.9	799.5
72.5°	6803.7	1759.0	534.7	536.8	595.4	712.6	808.9	781.6	733.5	750.3	747.1
75°	5751.0	1536.1	457.3	466.7	511.7	634.1	721.0	700.0	650.8	650.8	647.7
77.5°	3595.4	1073.6	379.9	385.1	434.3	543.1	619.5	601.7	554.6	538.9	534.7
80°	1341.5	554.6	297.2	303.4	333.8	428.0	512.8	496.0	447.8	430.1	413.4
82.5°	507.5	278.4	218.7	213.4	245.9	326.5	401.8	381.9	344.3	301.3	288.8
85°	191.5	138.1	134.0	129.8	144.4	193.6	249.0	244.9	205.1	174.8	171.6
87.5°	50.2	45.0	52.3	38.7	40.8	36.6	37.7	15.7	7.3	3.1	2.1
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)