

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: P651915

Luminaire Tested: **GALN-SA5A-840-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651915  
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-SA5A-840-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 19369.9 lumens  
Efficiency: N/A  
Efficacy: 125.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

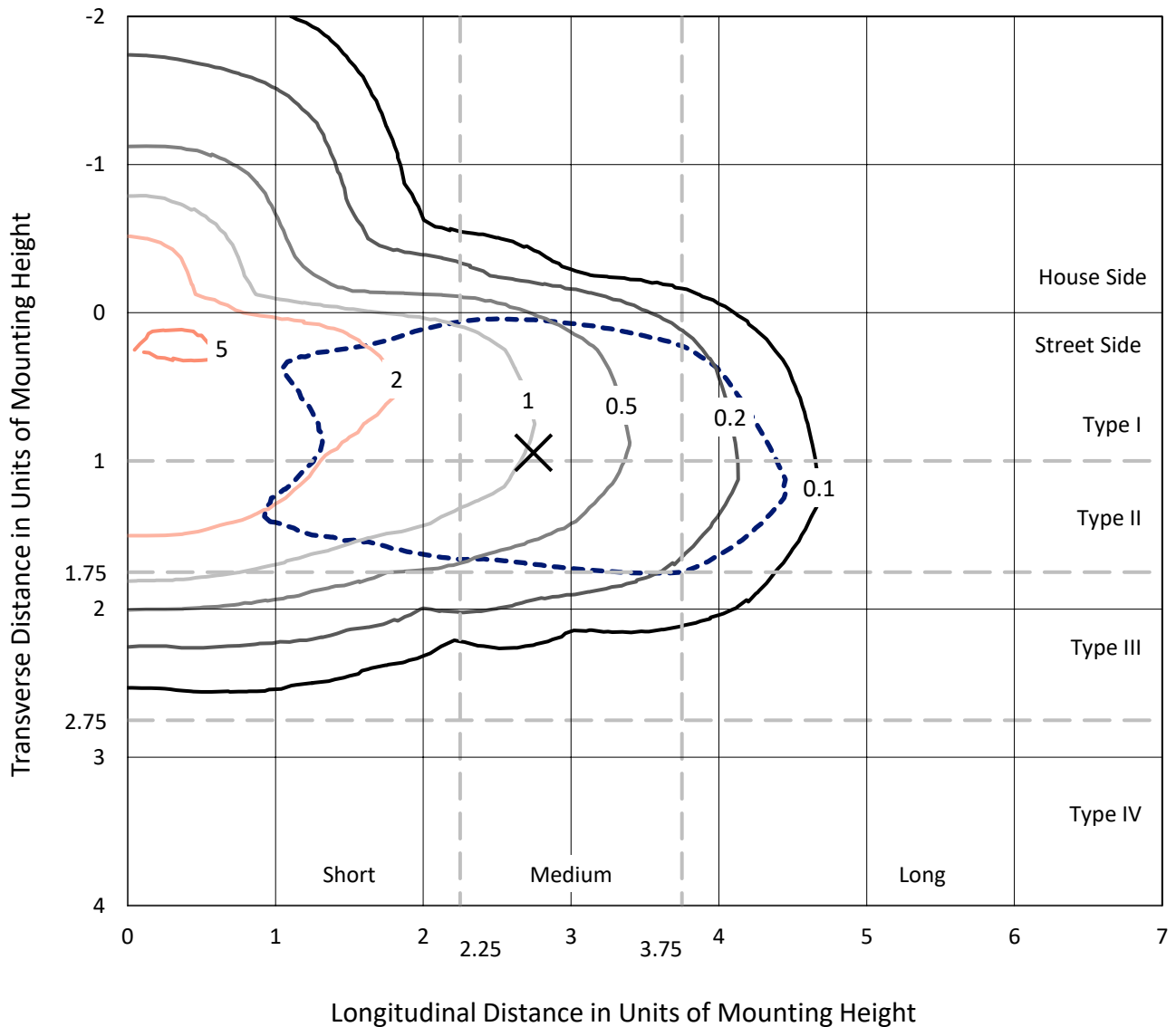
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

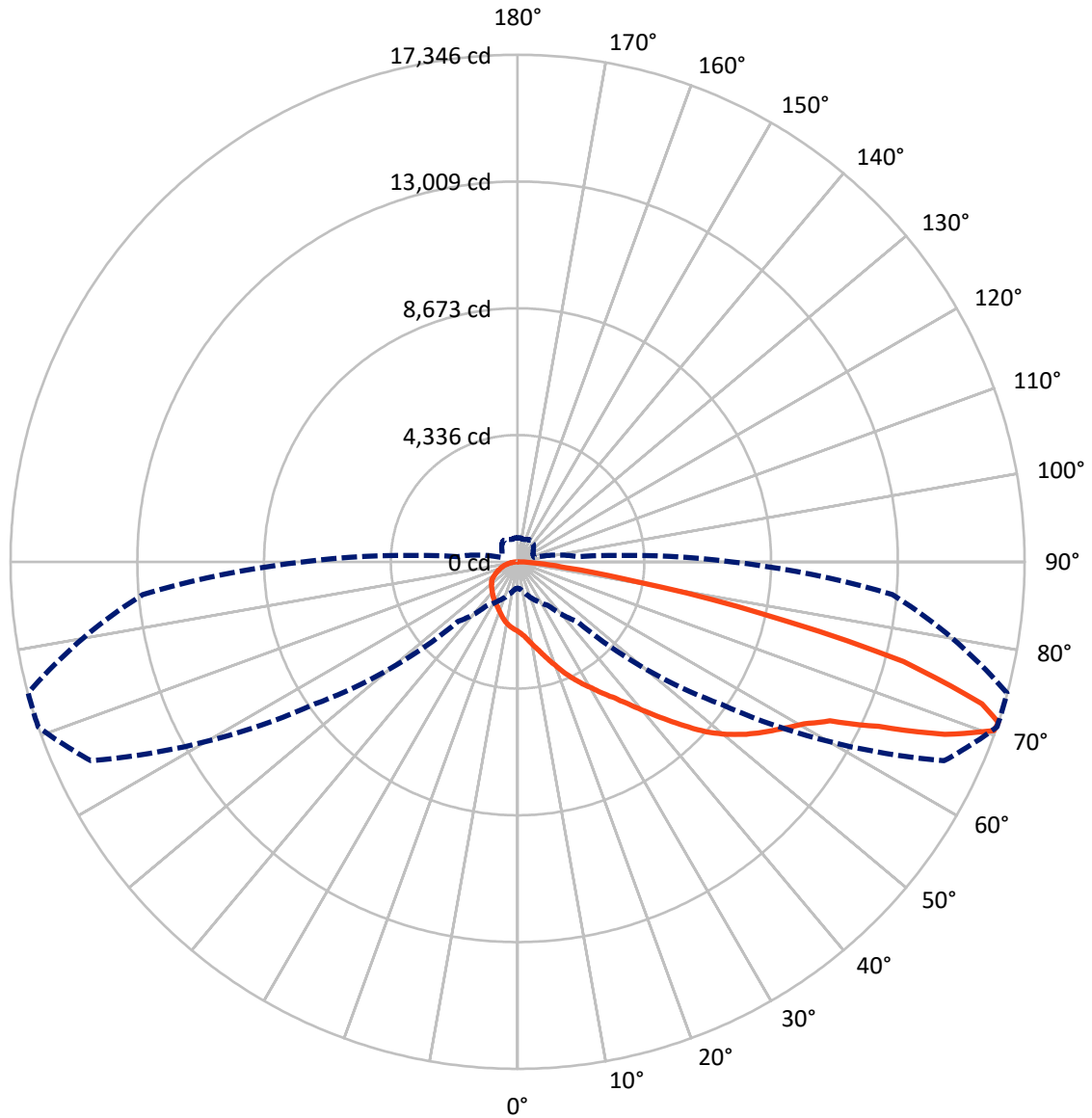
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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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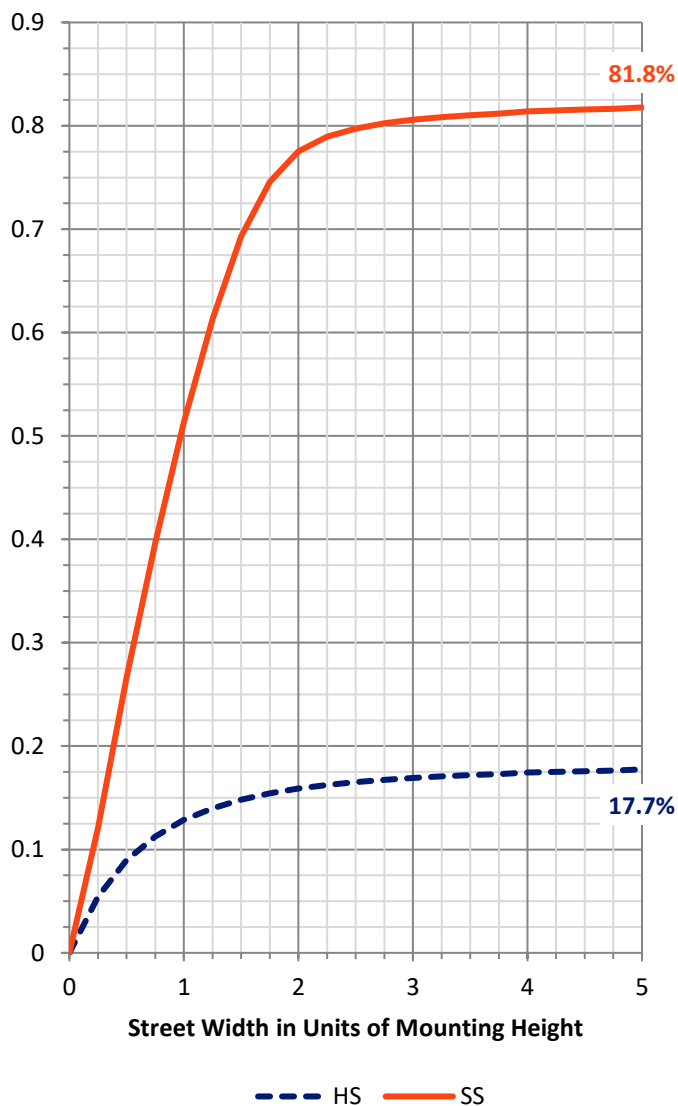
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3483.6	0.0	3483.6
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	15886.3	0.0	15886.3
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	19369.9	0.0	19369.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.7	1.2
10°-20°	775.5	4.0
20°-30°	1355.2	7.0
30°-40°	2015.8	10.4
40°-50°	2970.0	15.3
50°-60°	4158.0	21.5
60°-70°	4650.6	24.0
70°-80°	2840.8	14.7
80°-90°	365.4	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°	19369.9	100.0
0°-180°	19369.9	100.0

**Coefficient of Utilization**

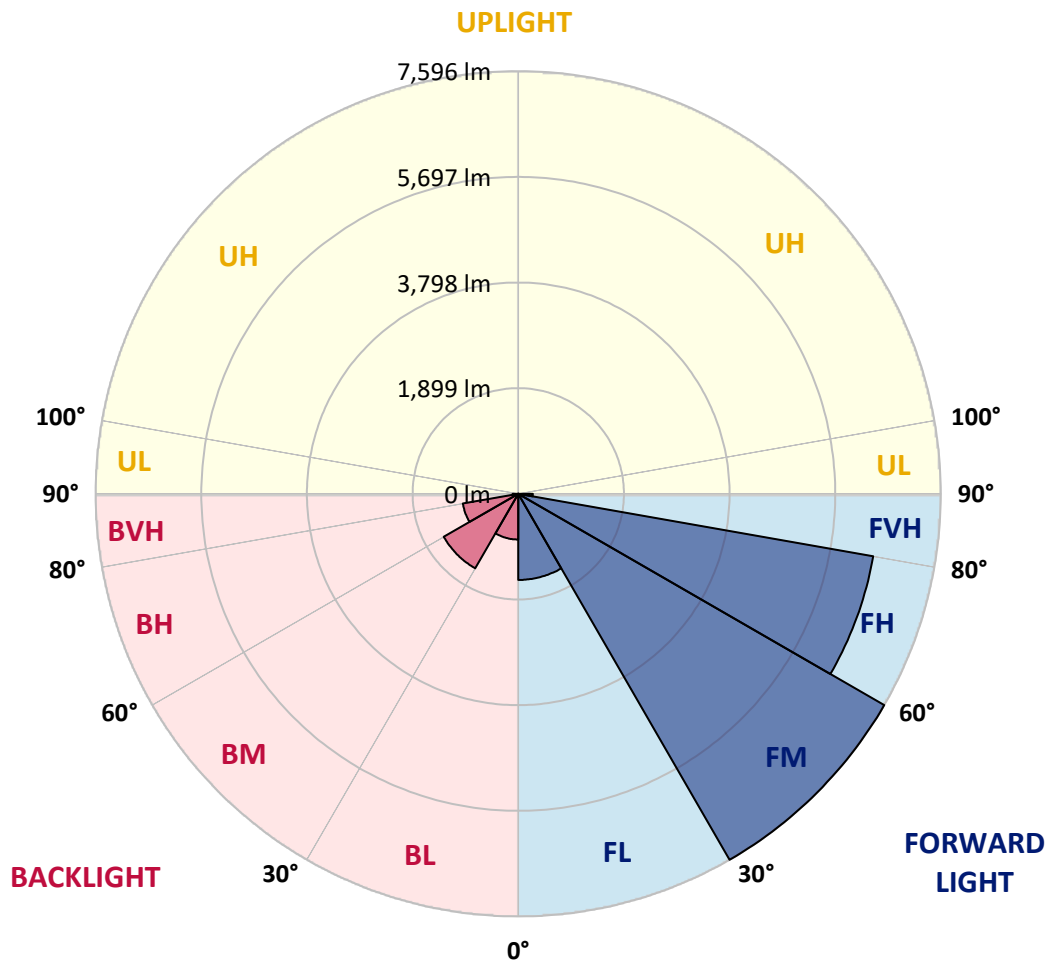


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1547.7	8.0			
FM (30°-60°)	7596.5	39.2			
FH (60°-80°)	6479.2	33.4			G3/7500
FVH (80°-90°)	262.9	1.4			G3/500
BL (0°-30°)	821.8	4.2	B2/1000		
BM (30°-60°)	1547.2	8.0	B2/2500		
BH (60°-80°)	1012.1	5.2	B3/2500		G3/2500
BVH (80°-90°)	102.5	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°	2377.3	2377.3	2377.3	2377.3	2377.3	2377.3	2377.3	2377.3	2377.3	2377.3	2377.3
2.5°	2639.1	2626.4	2627.5	2609.4	2585.9	2560.4	2524.2	2492.2	2466.7	2451.8	2408.1
5°	2924.5	2911.7	2895.7	2856.4	2839.3	2776.5	2696.7	2624.3	2568.9	2538.1	2450.8
7.5°	3155.5	3152.3	3148.0	3125.7	3082.0	2994.7	2926.6	2801.0	2719.0	2660.4	2511.4
10°	3298.1	3303.4	3306.6	3310.9	3292.9	3247.1	3153.4	2994.7	2890.4	2815.9	2590.2
12.5°	3370.6	3375.9	3393.9	3433.4	3457.9	3452.6	3375.9	3220.4	3076.7	2978.7	2674.3
15°	3415.3	3423.8	3455.8	3507.9	3589.9	3642.0	3604.8	3461.1	3303.4	3187.5	2774.4
17.5°	3464.2	3473.8	3509.0	3583.5	3691.0	3803.8	3844.3	3720.8	3549.4	3411.0	2886.1
20°	3491.9	3504.7	3554.7	3652.7	3778.3	3942.3	4076.4	4011.5	3824.1	3670.8	3015.0
22.5°	3536.7	3547.3	3589.9	3694.2	3844.3	4049.8	4308.4	4294.7	4129.6	3931.6	3156.6
25°	3658.0	3675.0	3696.4	3759.1	3903.9	4159.4	4501.2	4597.0	4425.6	4204.2	3286.5
27.5°	3886.9	3900.7	3899.6	3908.2	3990.1	4254.2	4668.3	4896.1	4719.4	4479.8	3412.1
30°	4147.7	4153.0	4157.3	4138.1	4156.2	4351.1	4821.6	5192.1	5015.4	4763.1	3521.8
32.5°	4465.0	4475.6	4439.4	4390.4	4375.6	4494.8	4948.3	5488.0	5365.7	5050.5	3630.3
35°	4839.7	4867.4	4794.0	4707.7	4647.0	4701.4	5118.7	5790.5	5724.4	5417.8	3774.1
37.5°	5267.7	5301.7	5233.6	5064.3	4978.1	4993.0	5341.2	6164.1	6177.9	5836.2	3988.0
40°	5618.0	5662.6	5664.8	5425.3	5294.3	5311.3	5623.3	6566.5	6725.1	6353.6	4240.3
42.5°	5849.0	5892.6	5938.4	5797.9	5660.5	5757.4	5952.3	7003.0	7340.5	6981.7	4592.7
45°	6102.4	6141.7	6167.3	6103.4	6026.8	6278.0	6349.3	7467.2	7996.3	7683.3	4978.1
47.5°	6396.1	6439.8	6464.3	6403.6	6374.9	6734.7	6777.3	7900.4	8696.8	8364.7	5403.9
50°	6788.0	6820.9	6808.1	6769.9	6763.5	7085.0	7188.3	8306.1	9274.9	9098.2	5845.8
52.5°	7275.6	7314.9	7328.8	7274.5	7250.0	7335.2	7519.4	8675.5	9800.8	9728.4	6317.4
55°	7570.4	7633.3	7844.0	7929.2	7987.7	7658.8	7876.0	9083.2	10272.4	10392.7	6824.1
57.5°	7192.5	7273.4	7745.0	8170.9	8721.3	8467.9	8381.7	9509.1	10744.0	11036.8	7431.0
60°	6270.6	6288.7	6896.5	7681.2	8788.4	9508.0	9436.7	10186.2	11255.0	11686.2	8230.5
62.5°	4350.0	4388.3	5107.0	6358.9	7960.1	9882.8	11231.6	11355.1	11987.5	12658.2	9402.6
65°	2243.1	2193.1	2847.8	3996.5	6001.2	8992.7	12685.9	13504.6	13575.9	14178.5	11052.8
67.5°	1380.8	1403.1	1709.8	2333.6	3548.3	6535.7	12533.7	16131.0	15755.1	16044.8	12584.7
70°	1037.0	1064.6	1275.4	1596.9	2163.3	3736.8	10079.7	16767.6	17292.5	17218.0	13051.1
71°	901.7	930.5	1149.8	1453.2	1817.3	2884.0	8492.4	16101.2	17345.7	17332.9	12875.4
72.5°	768.7	786.8	958.2	1230.7	1532.0	2021.7	6380.2	14440.4	16605.8	17030.6	12248.3
75°	603.7	617.5	694.2	939.0	1206.2	1241.3	3423.8	10826.0	13638.7	14447.8	10196.9
77.5°	491.8	501.4	540.8	697.4	930.5	879.3	1796.0	7046.7	8544.6	9359.0	6006.5
80°	390.7	401.3	424.8	472.7	697.4	627.0	857.0	3570.7	4127.5	4119.0	2397.5
82.5°	303.4	306.6	334.3	347.1	476.9	445.0	464.1	1511.8	1674.6	1730.0	865.6
85°	191.7	201.3	295.9	266.2	285.4	260.8	228.9	600.5	739.9	729.2	346.0
87.5°	58.5	61.7	100.1	112.9	126.7	113.9	84.1	176.7	216.1	234.2	86.2
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°	2377.3	2377.3	2377.3	2377.3	2377.3	2377.3	2377.3	2377.3	2377.3	2377.3	2377.3
2.5°	2391.1	2379.4	2337.9	2303.8	2271.9	2236.7	2207.0	2198.5	2191.0	2187.8	2186.7
5°	2413.5	2378.3	2296.4	2229.3	2176.1	2127.1	2096.2	2082.4	2068.5	2068.5	2072.8
7.5°	2445.4	2381.5	2254.8	2154.8	2087.7	2041.9	2019.6	2017.5	2020.7	2023.8	2024.9
10°	2480.5	2379.4	2194.2	2069.6	2010.0	1988.7	1989.7	2007.9	2024.9	2037.7	2039.8
12.5°	2514.6	2366.7	2122.9	1989.7	1951.5	1955.7	1985.5	2026.0	2058.9	2077.0	2078.1
15°	2552.9	2346.4	2036.6	1914.2	1901.4	1934.4	1989.7	2051.5	2101.6	2131.3	2134.5
17.5°	2584.9	2312.3	1946.1	1840.7	1856.7	1917.4	1994.0	2073.8	2134.5	2171.8	2178.2
20°	2621.1	2268.7	1852.4	1770.5	1816.2	1898.2	1985.5	2071.7	2134.5	2170.7	2179.3
22.5°	2649.8	2207.0	1763.0	1712.9	1780.1	1874.8	1956.8	2026.0	2077.0	2096.2	2109.0
25°	2661.5	2129.2	1678.9	1666.1	1751.3	1836.5	1891.8	1931.2	1947.2	1945.1	1950.4
27.5°	2655.1	2039.8	1606.5	1628.8	1715.1	1776.9	1804.5	1801.3	1772.6	1746.0	1758.7
30°	2628.5	1933.3	1545.8	1590.5	1668.2	1702.4	1698.1	1656.5	1602.3	1552.2	1555.4
32.5°	2580.6	1818.3	1489.4	1546.9	1602.3	1617.2	1588.4	1534.1	1456.4	1391.4	1381.8
35°	2540.2	1708.7	1439.4	1496.8	1536.3	1528.8	1501.1	1430.9	1360.6	1303.0	1293.5
37.5°	2533.8	1615.0	1391.4	1440.4	1462.8	1452.2	1418.1	1358.5	1332.9	1289.3	1284.0
40°	2567.8	1549.0	1342.5	1380.8	1391.4	1382.9	1345.7	1311.6	1335.0	1324.4	1324.4
42.5°	2660.4	1513.9	1298.8	1321.2	1329.7	1336.1	1309.4	1280.8	1309.4	1260.5	1244.5
45°	2807.3	1515.0	1259.4	1262.6	1288.2	1310.5	1292.4	1249.9	1234.9	1137.0	1117.9
47.5°	3023.5	1551.1	1227.5	1207.3	1253.0	1290.3	1264.8	1203.1	1137.0	1072.0	1060.3
50°	3275.8	1616.1	1198.8	1149.8	1206.2	1264.8	1245.6	1173.2	1105.1	1065.7	1058.2
52.5°	3555.8	1698.1	1163.6	1085.9	1148.7	1253.0	1249.9	1168.9	1075.2	1048.6	1042.3
55°	3901.8	1779.0	1120.0	1011.4	1097.6	1243.5	1238.1	1133.8	1068.8	1049.7	1047.5
57.5°	4304.2	1896.0	1057.1	935.8	1039.1	1204.1	1192.4	1112.6	1047.5	1033.8	1032.7
60°	4952.6	2078.1	967.7	866.6	979.4	1134.8	1149.8	1076.3	1013.5	1010.3	1009.3
62.5°	5805.3	2333.6	875.1	795.2	910.2	1045.4	1088.0	1027.4	977.3	993.3	995.4
65°	6982.7	2548.7	779.3	734.6	833.6	959.2	1029.5	981.5	936.9	967.7	967.7
67.5°	7750.4	2552.9	692.0	671.8	755.9	886.8	967.7	927.3	884.7	936.9	939.0
70°	7590.7	2236.7	619.6	605.8	680.3	809.1	899.6	867.7	818.7	865.6	848.5
71°	7333.0	2061.1	590.9	580.2	650.5	771.9	867.7	841.1	792.1	822.9	813.3
72.5°	6922.1	1789.6	544.0	546.1	605.8	725.0	822.9	795.2	746.3	763.3	760.1
75°	5851.1	1562.8	465.2	474.8	520.6	645.1	733.5	712.2	662.2	662.2	659.0
77.5°	3658.0	1092.3	386.4	391.7	441.8	552.5	630.2	612.2	564.2	548.2	544.0
80°	1364.9	564.2	302.3	308.7	339.6	435.4	521.7	504.6	455.7	437.6	420.5
82.5°	516.4	283.2	222.5	217.1	250.2	332.2	408.8	388.5	350.3	306.6	293.8
85°	194.9	140.5	136.2	132.0	146.9	197.0	253.4	249.1	208.7	177.8	174.6
87.5°	51.1	45.8	53.2	39.4	41.5	37.3	38.3	16.0	7.5	3.2	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)