

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: P647908

Luminaire Tested: **GALN-SA4A-835-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647908  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA4A-835-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14047 lumens  
Efficiency: N/A  
Efficacy: 116.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

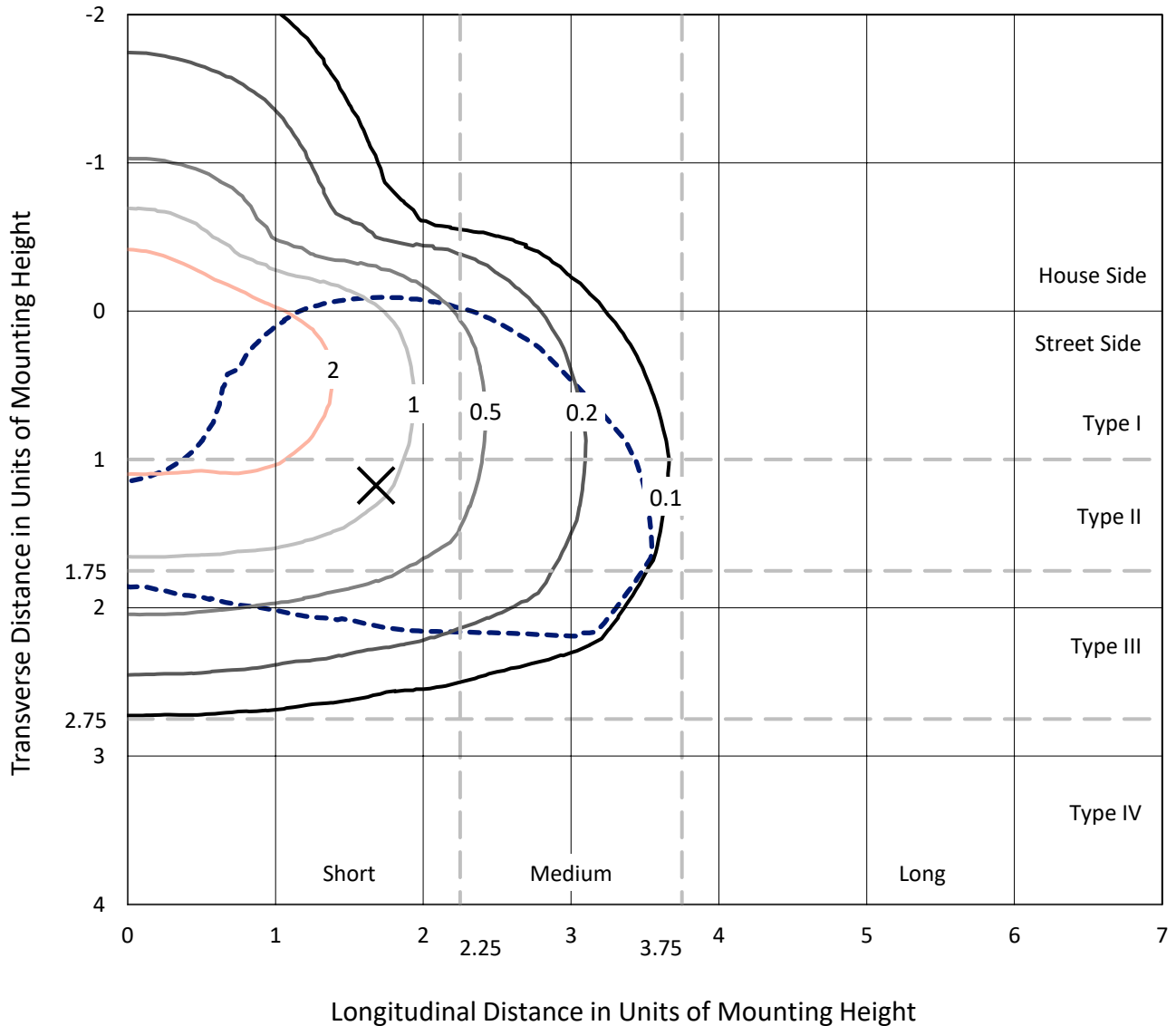
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

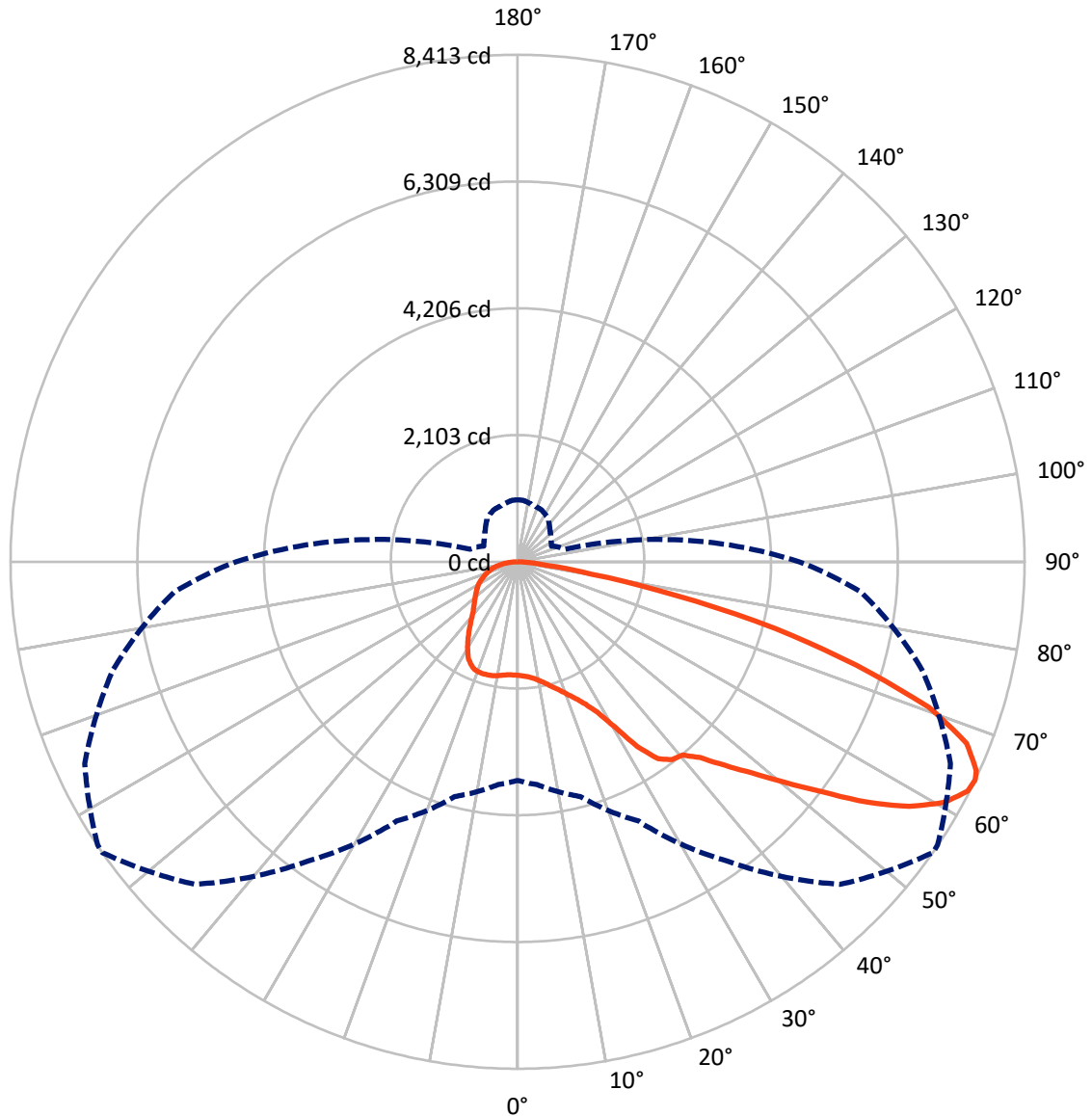
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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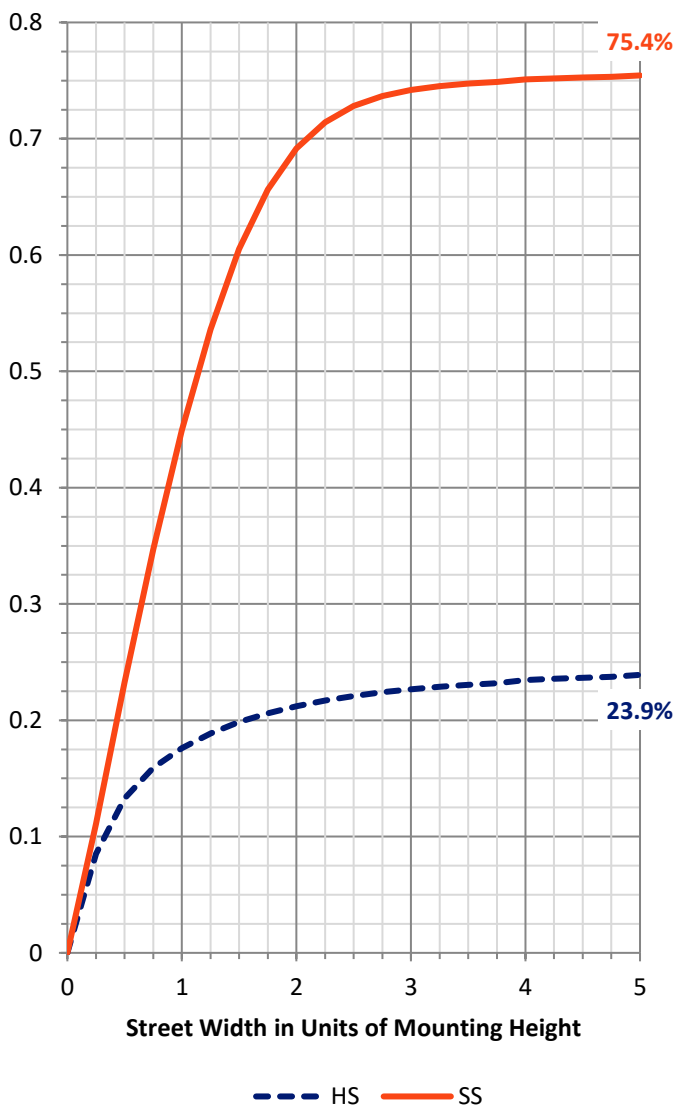
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3412.3	0.0	3412.3
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	10634.7	0.0	10634.7
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	14047.0	0.0	14047.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.3	1.3
10°-20°	578.5	4.1
20°-30°	1029.8	7.3
30°-40°	1584.5	11.3
40°-50°	2246.1	16.0
50°-60°	3251.2	23.1
60°-70°	3364.7	24.0
70°-80°	1575.7	11.2
80°-90°	233.3	1.7
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°	14047.0	100.0
0°-180°	14047.0	100.0

**Coefficient of Utilization**



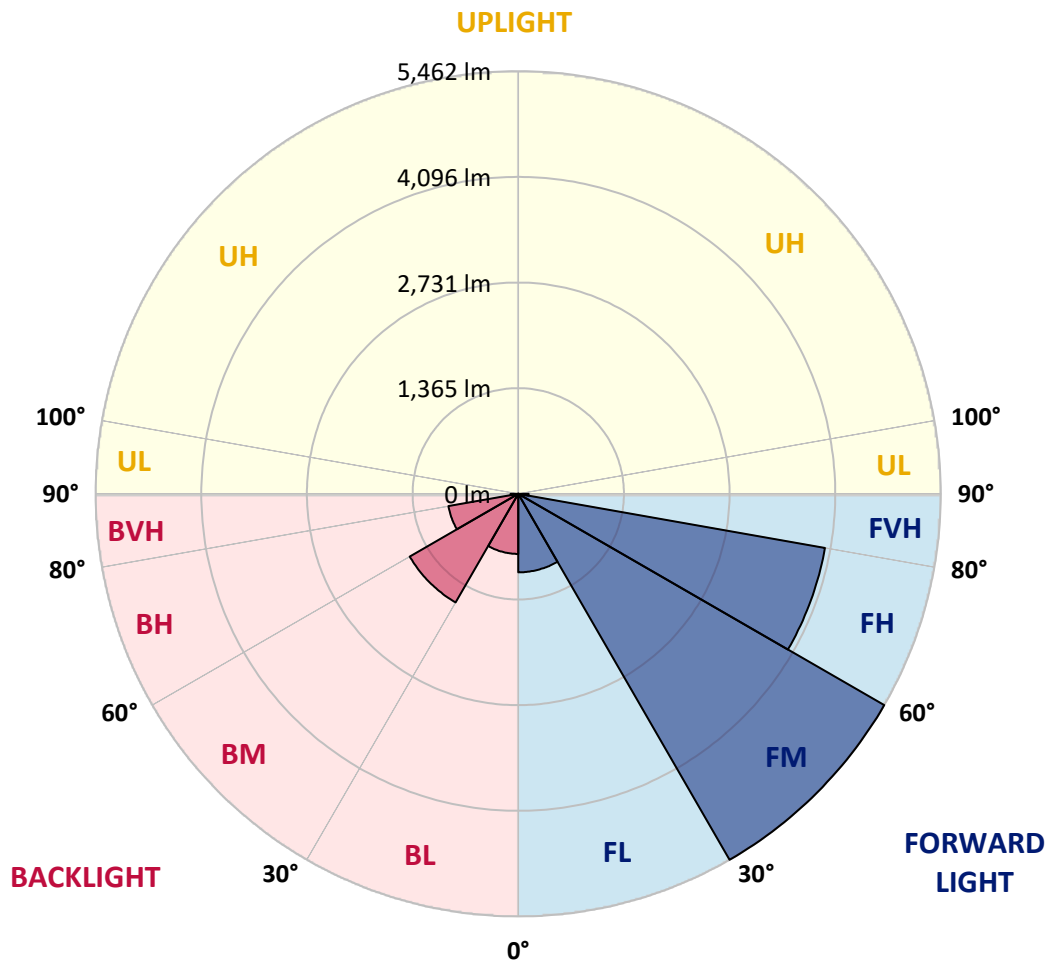
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1014.4	7.2			
FM (30°-60°)	5461.9	38.9			
FH (60°-80°)	4024.9	28.7			G2/5000
FVH (80°-90°)	133.6	1.0			G2/225
BL (0°-30°)	777.2	5.5	B2/1000		
BM (30°-60°)	1619.9	11.5	B2/2500		
BH (60°-80°)	915.5	6.5	B2/1000		G2/1000
BVH (80°-90°)	99.7	0.7			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1884.7	1884.7	1884.7	1884.7	1884.7	1884.7	1884.7	1884.7	1884.7	1884.7	1884.7
2.5°	1905.8	1905.0	1907.4	1905.0	1906.6	1901.1	1898.8	1900.3	1898.0	1894.1	1887.0
5°	1929.3	1928.5	1929.3	1926.2	1927.7	1924.6	1919.1	1920.7	1916.8	1908.2	1898.0
7.5°	1969.2	1966.1	1966.1	1965.3	1962.2	1957.5	1953.6	1952.0	1948.1	1937.1	1921.5
10°	2020.9	2020.9	2021.7	2015.4	2019.4	2010.7	2006.8	2006.0	1992.7	1978.6	1956.7
12.5°	2089.0	2093.0	2090.6	2087.5	2085.9	2082.8	2069.5	2072.6	2057.7	2033.5	2006.8
15°	2173.6	2179.9	2176.0	2174.4	2170.5	2158.7	2153.2	2150.9	2131.3	2096.1	2060.9
17.5°	2285.6	2277.7	2274.6	2270.7	2254.3	2245.6	2236.2	2234.7	2217.5	2176.0	2121.1
20°	2383.5	2394.4	2388.2	2384.2	2367.8	2351.3	2344.3	2342.0	2327.1	2281.7	2194.0
22.5°	2500.1	2502.5	2504.8	2495.4	2487.6	2475.1	2462.5	2458.6	2453.1	2406.2	2298.9
25°	2624.6	2634.0	2626.2	2616.8	2607.4	2606.6	2618.4	2616.8	2614.4	2569.0	2438.3
27.5°	2827.4	2836.0	2838.4	2828.2	2792.2	2795.3	2821.9	2830.5	2866.6	2791.4	2617.6
30°	2941.7	2950.3	2969.9	3008.3	3065.4	3115.6	3179.8	3199.3	3233.8	3092.1	2830.5
32.5°	3012.2	3015.3	3050.6	3121.8	3293.3	3480.4	3655.0	3662.1	3684.0	3485.1	3025.5
35°	3123.4	3125.7	3153.9	3232.2	3433.5	3745.1	4015.2	4023.8	4005.8	3607.3	3116.3
37.5°	3260.4	3266.7	3284.7	3349.7	3590.1	3966.7	4164.8	4158.5	3998.8	3704.4	3276.9
40°	3460.1	3460.1	3438.9	3526.6	3755.3	4093.5	4217.2	4206.3	4164.0	3985.5	3521.2
42.5°	3636.3	3633.1	3683.2	3742.7	3962.0	4289.3	4437.3	4455.3	4525.0	4338.6	3799.1
45°	3865.7	3879.8	3908.0	4016.0	4313.5	4623.6	4814.7	4831.9	4930.6	4754.4	4124.1
47.5°	4097.4	4102.1	4190.6	4334.7	4748.9	5077.0	5233.6	5261.8	5351.8	5240.6	4474.1
50°	4261.9	4306.5	4448.2	4675.3	5197.6	5629.8	5751.9	5785.6	5944.5	5769.9	4882.0
52.5°	4435.7	4479.5	4652.6	4998.7	5712.8	6195.1	6345.4	6368.1	6533.4	6305.5	5299.3
55°	4584.5	4625.2	4821.7	5285.2	6123.1	6772.2	7044.7	7018.0	7097.1	6718.1	5621.2
57.5°	4608.7	4641.6	4889.1	5468.5	6431.6	7267.0	7657.7	7673.4	7581.8	7026.6	5886.6
60°	4420.8	4488.2	4772.4	5448.9	6570.2	7611.5	8115.0	8126.0	7866.0	7184.8	5992.3
62.5°	4088.0	4081.0	4424.7	5134.1	6376.0	7689.8	8384.4	8372.6	7977.2	7108.9	5889.7
64°	3628.4	3713.0	4034.0	4747.3	6062.8	7569.3	8412.6	8406.3	7924.0	6950.7	5715.1
65°	3348.1	3343.4	3660.5	4431.0	5751.1	7387.6	8362.4	8353.8	7812.8	6809.0	5579.7
67.5°	2417.1	2428.1	2741.3	3419.4	4675.3	6677.4	8035.9	8003.8	7374.3	6339.2	5064.4
70°	1464.2	1470.5	1716.3	2268.4	3355.9	5398.0	7243.5	7245.1	6703.3	5637.6	4310.4
72.5°	771.3	787.7	886.4	1288.0	2038.1	3787.4	5876.4	6015.8	5755.0	4811.5	3405.3
75°	429.1	431.4	501.1	635.0	1039.8	2119.6	4416.9	4456.8	4556.3	3872.7	2518.1
77.5°	327.3	332.0	353.9	410.3	566.1	982.7	2673.2	2873.6	3211.1	2730.3	1436.8
80°	265.4	270.1	288.9	322.6	376.6	465.9	1241.8	1349.9	1718.7	1212.1	560.6
82.5°	206.7	203.6	227.9	249.8	274.0	275.6	509.7	563.8	700.0	521.5	242.7
85°	153.5	153.5	173.0	168.3	177.0	161.3	224.7	248.2	280.3	221.6	112.8
87.5°	61.1	67.3	113.5	101.8	79.1	63.4	83.0	87.7	97.1	86.9	47.0
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°	1884.7	1884.7	1884.7	1884.7	1884.7	1884.7	1884.7	1884.7	1884.7	1884.7	1884.7
2.5°	1887.8	1890.2	1884.7	1880.8	1879.2	1876.9	1874.5	1875.3	1878.4	1881.5	1880.8
5°	1897.2	1898.0	1888.6	1883.9	1880.8	1877.6	1877.6	1880.0	1886.2	1890.9	1890.9
7.5°	1920.7	1920.7	1907.4	1898.8	1894.1	1888.6	1887.0	1887.8	1892.5	1898.8	1899.6
10°	1957.5	1954.4	1937.1	1923.8	1915.2	1901.9	1890.2	1883.9	1886.2	1890.2	1890.2
12.5°	2002.1	1993.5	1971.6	1953.6	1932.4	1907.4	1883.1	1870.6	1869.8	1873.7	1872.2
15°	2049.9	2040.5	2010.0	1977.1	1940.3	1903.5	1874.5	1856.5	1842.4	1838.5	1847.1
17.5°	2105.5	2085.9	2043.6	1998.2	1943.4	1895.6	1850.2	1813.4	1788.4	1781.3	1783.7
20°	2172.8	2147.0	2089.8	2018.6	1941.1	1867.5	1797.0	1747.7	1706.9	1694.4	1696.0
22.5°	2266.0	2221.4	2137.6	2028.8	1921.5	1814.2	1716.3	1652.1	1602.8	1583.2	1595.0
25°	2371.7	2323.2	2183.0	2026.4	1870.6	1728.9	1620.8	1537.0	1492.4	1463.4	1469.7
27.5°	2517.3	2431.2	2231.6	2005.3	1797.8	1624.7	1499.4	1420.4	1379.6	1364.8	1371.8
30°	2703.7	2571.4	2284.0	1948.1	1682.7	1493.2	1377.3	1325.6	1301.3	1282.6	1288.8
32.5°	2838.4	2670.0	2295.8	1851.8	1558.2	1373.4	1294.3	1255.9	1229.3	1211.3	1215.2
35°	2934.7	2753.8	2290.3	1733.6	1428.2	1274.7	1228.5	1197.2	1154.1	1115.0	1107.9
37.5°	3063.9	2858.7	2250.3	1604.4	1299.8	1208.2	1175.3	1117.3	1055.5	1003.0	1000.7
40°	3262.0	2981.7	2165.0	1452.5	1190.2	1158.8	1118.9	1043.7	977.2	934.9	931.8
42.5°	3466.3	3095.2	2049.1	1292.7	1100.1	1107.2	1058.6	984.2	943.5	916.1	913.0
45°	3716.1	3218.1	1923.8	1154.1	1033.6	1058.6	1006.2	963.1	938.8	920.8	916.1
47.5°	3986.3	3344.2	1782.9	1029.6	977.2	1014.0	984.2	964.7	951.3	938.8	933.3
50°	4277.5	3485.1	1650.6	929.4	926.3	967.8	981.9	974.8	967.0	963.1	958.4
52.5°	4597.0	3629.2	1539.4	859.0	881.7	934.9	982.7	988.1	988.1	985.8	982.7
55°	4813.1	3729.4	1426.6	801.8	836.2	908.3	981.1	1002.2	1010.1	1006.9	1003.8
57.5°	4972.8	3784.2	1284.9	752.5	797.9	882.4	972.5	1003.8	1011.6	1015.6	1014.0
60°	5005.7	3733.3	1099.3	700.8	756.4	844.9	941.2	980.3	990.5	1014.8	1017.1
62.5°	4857.7	3576.7	914.5	649.9	705.5	787.7	898.9	953.7	974.1	1011.6	1015.6
64°	4676.1	3401.4	812.0	617.8	672.6	755.6	877.7	946.6	973.3	1023.4	1026.5
65°	4543.0	3273.7	747.8	597.4	651.5	734.5	866.0	949.0	980.3	1041.4	1046.1
67.5°	4052.8	2834.5	618.6	549.7	601.3	698.4	868.3	968.6	978.8	1048.4	1047.7
70°	3353.6	2256.6	518.3	505.8	552.8	669.5	859.0	937.3	938.0	984.2	973.3
72.5°	2511.1	1667.8	449.4	460.4	498.8	600.6	811.2	895.0	881.7	887.9	877.0
75°	1724.9	1103.2	386.8	411.9	442.4	530.9	743.8	812.8	791.6	783.8	776.0
77.5°	920.8	610.0	321.8	364.1	384.5	458.8	649.1	715.7	693.7	663.2	653.0
80°	372.7	287.4	259.2	301.5	313.2	369.6	540.3	581.8	565.3	512.1	494.9
82.5°	187.1	172.3	203.6	237.2	238.0	263.9	401.7	440.8	404.0	339.0	324.2
85°	97.9	101.0	140.2	166.8	147.2	142.5	241.2	267.0	245.1	213.0	191.8
87.5°	35.2	40.7	73.6	72.8	51.7	27.4	53.2	25.8	14.1	8.6	11.0
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)