

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: P190892

Luminaire Tested: **GLEON-AF-04-LED-E1-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190892  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-04-LED-E1-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25871.5 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B5 - U0 - G3

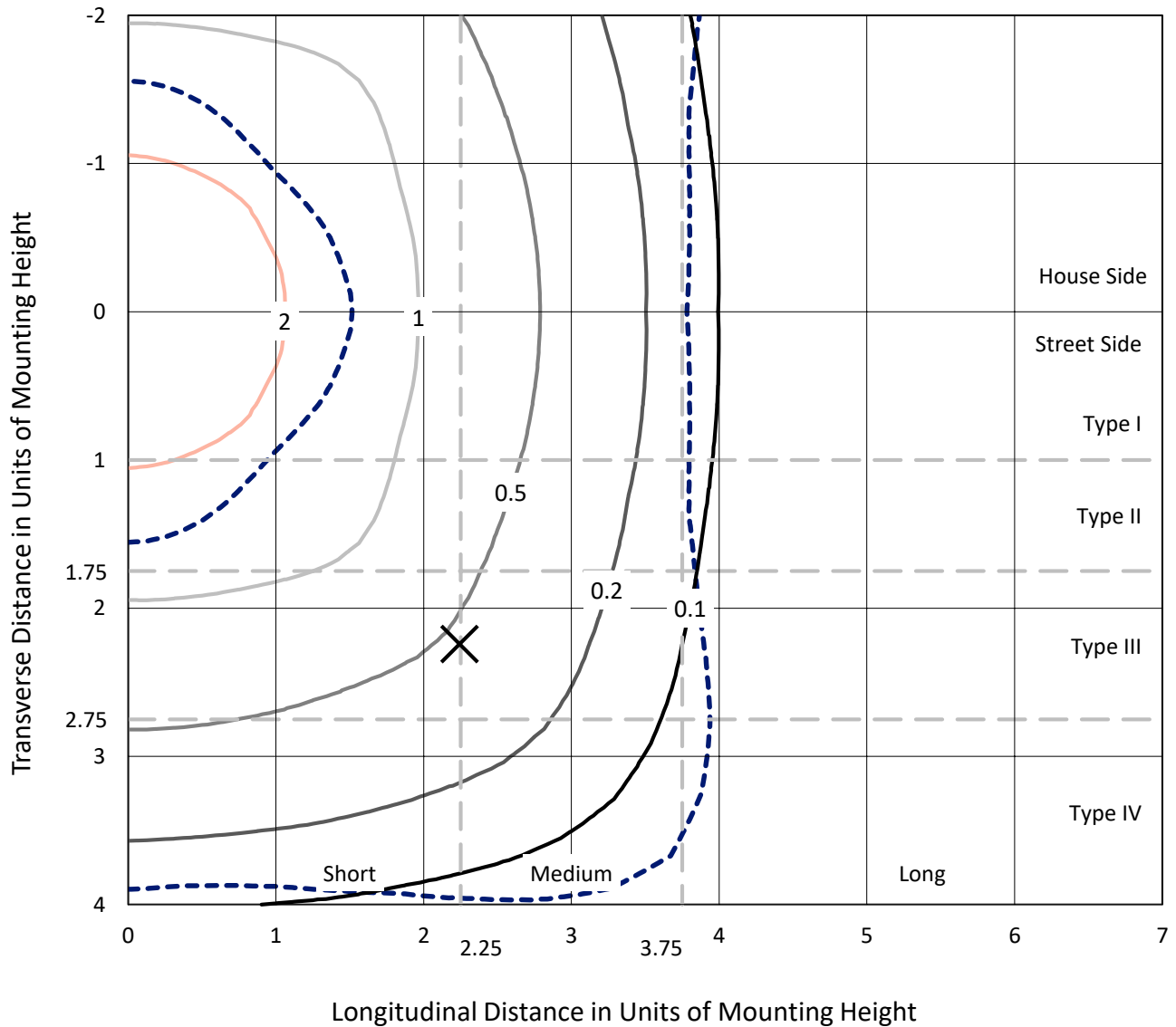
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

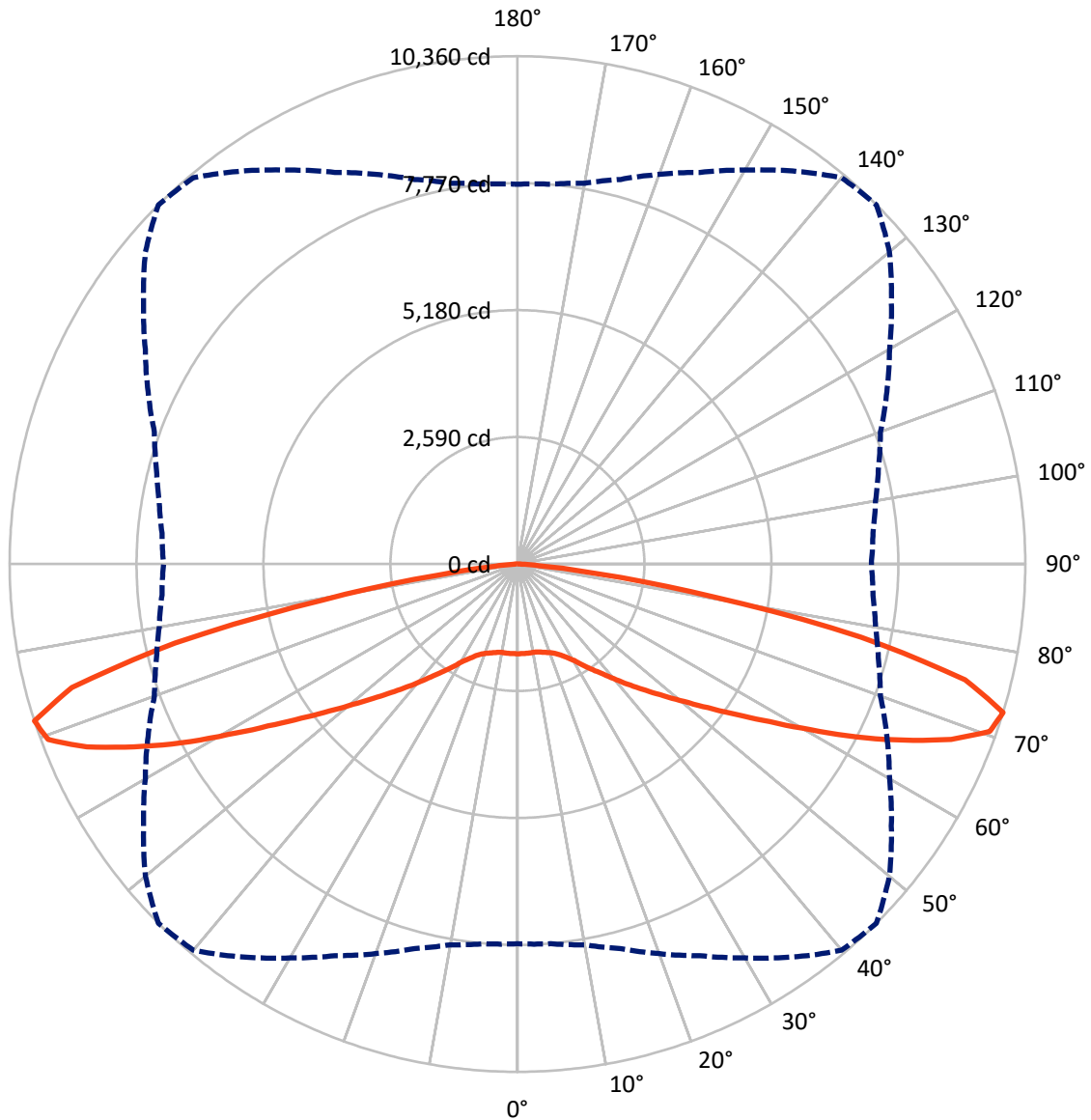


Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12935.7	0.0	12935.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12935.7	0.0	12935.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25871.5	0.0	25871.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.9	0.7
10°-20°	531.3	2.1
20°-30°	970.9	3.8
30°-40°	1674.1	6.5
40°-50°	2861.8	11.1
50°-60°	4638.7	17.9
60°-70°	7695.4	29.7
70°-80°	6777.8	26.2
80°-90°	546.5	2.1
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°	25871.5	100.0
0°-180°	25871.5	100.0



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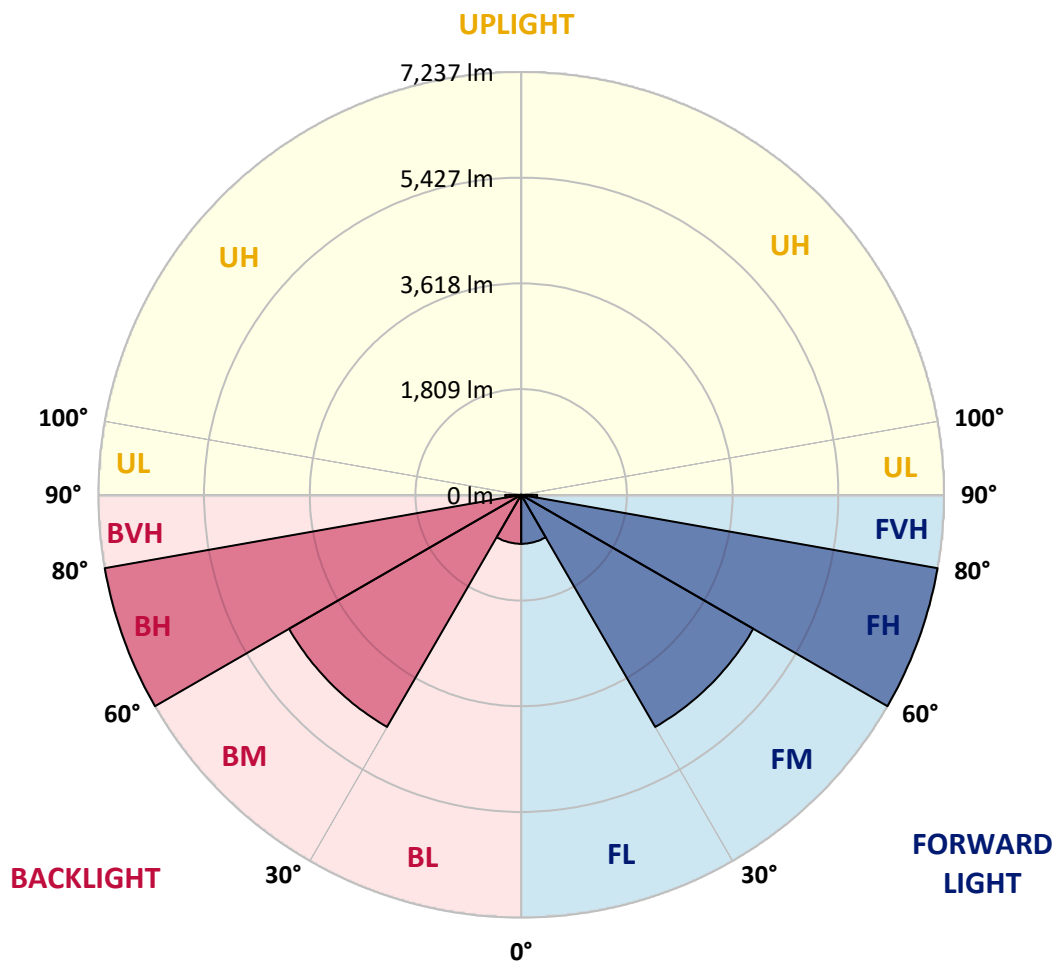
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	838.6	3.2			
FM	(30°-60°)	4587.3	17.7			
FH	(60°-80°)	7236.6	28.0			G3/7500
FVH	(80°-90°)	273.2	1.1			G3/500
BL	(0°-30°)	838.6	3.2	B2/1000		
BM	(30°-60°)	4587.3	17.7	B3/5000		
BH	(60°-80°)	7236.6	28.0	B5		G3/7500
BVH	(80°-90°)	273.2	1.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1832.1	1832.1	1832.1	1832.1	1832.1	1832.1	1832.1	1832.1	1832.1	1832.1	1832.1
2.5°	1832.1	1833.3	1834.5	1833.3	1833.3	1832.1	1830.9	1832.1	1830.9	1828.5	1829.8
5°	1838.0	1840.4	1840.4	1838.0	1839.3	1838.0	1835.7	1836.8	1834.5	1830.9	1830.9
7.5°	1845.2	1846.3	1846.3	1844.0	1845.2	1842.7	1840.4	1839.3	1836.8	1832.1	1828.5
10°	1855.8	1857.1	1855.8	1853.5	1853.5	1849.9	1844.0	1841.6	1836.8	1829.8	1826.2
12.5°	1867.7	1868.9	1867.7	1865.4	1864.1	1858.2	1853.5	1849.9	1846.3	1840.4	1834.5
15°	1884.3	1886.7	1884.3	1879.6	1876.0	1871.3	1868.9	1870.1	1871.3	1866.5	1860.5
17.5°	1915.2	1916.4	1912.8	1902.1	1897.4	1892.7	1892.7	1895.0	1898.6	1896.1	1890.2
20°	1972.1	1968.6	1960.3	1947.2	1941.3	1933.0	1931.7	1933.0	1933.0	1931.7	1927.0
22.5°	2043.3	2041.0	2030.3	2013.7	2005.4	2000.6	1993.5	1987.6	1986.4	1982.8	1978.1
25°	2128.8	2127.5	2114.5	2100.2	2094.3	2088.4	2082.4	2074.1	2067.1	2058.8	2054.0
27.5°	2237.9	2233.2	2214.2	2207.0	2198.7	2195.2	2186.9	2177.4	2171.4	2160.8	2154.8
30°	2357.8	2357.8	2342.4	2340.0	2340.0	2331.6	2322.2	2305.5	2294.9	2284.1	2280.7
32.5°	2477.6	2478.8	2463.4	2468.1	2471.7	2477.6	2479.9	2474.0	2466.9	2465.7	2458.7
35°	2650.9	2646.1	2630.7	2634.2	2633.1	2631.8	2631.8	2644.9	2647.3	2649.6	2635.4
37.5°	2865.6	2865.6	2850.2	2850.2	2843.1	2835.9	2826.5	2834.8	2847.8	2851.4	2841.9
40°	3111.2	3119.6	3100.6	3099.3	3101.8	3079.2	3068.5	3081.5	3089.9	3104.1	3093.4
42.5°	3400.8	3394.9	3375.8	3373.5	3360.4	3353.3	3343.8	3354.5	3367.6	3377.1	3380.6
45°	3678.4	3673.7	3652.3	3652.3	3639.2	3633.3	3638.1	3655.9	3661.9	3674.8	3687.9
47.5°	3952.6	3946.6	3932.3	3938.3	3939.5	3950.1	3965.6	3982.2	3998.8	4016.6	4022.5
50°	4232.6	4233.8	4218.3	4232.6	4250.4	4280.0	4321.6	4348.9	4383.2	4405.8	4412.9
52.5°	4487.7	4492.5	4509.1	4542.3	4577.9	4636.0	4707.2	4773.7	4830.6	4868.6	4866.2
55°	4793.9	4800.9	4841.3	4898.3	4956.4	5044.2	5149.8	5267.3	5362.2	5416.8	5382.4
57.5°	5185.4	5200.9	5245.9	5323.0	5409.7	5523.6	5668.4	5845.1	5992.3	6065.9	6010.1
60°	5722.9	5732.4	5787.0	5872.5	5976.9	6118.1	6311.5	6548.8	6756.5	6853.8	6789.7
62.5°	6431.3	6449.1	6493.1	6579.6	6686.4	6846.6	7082.8	7379.5	7638.1	7773.4	7628.7
65°	7277.4	7334.4	7371.1	7458.9	7558.6	7728.3	7975.1	8293.1	8570.8	8659.8	8492.4
67.5°	8115.1	8165.0	8229.0	8329.9	8430.8	8621.8	8850.8	9159.3	9464.2	9544.9	9285.1
70°	8481.8	8510.2	8610.0	8747.6	8941.0	9166.5	9431.1	9777.6	10154.8	10221.3	9891.4
72.5°	7747.3	7775.8	7887.3	8121.0	8458.1	8816.4	9278.0	9787.0	10285.4	10360.1	9905.6
75°	5859.4	5813.1	5978.0	6287.8	6742.3	7241.8	7887.3	8617.0	9337.3	9431.1	8888.7
77.5°	3028.1	3022.2	3146.8	3531.3	4073.6	4641.9	5352.7	6177.4	6882.2	7167.0	6725.6
80°	853.1	862.7	922.0	1113.1	1429.9	1840.4	2395.8	3168.2	3744.9	4039.1	3792.4
82.5°	334.6	360.7	383.3	418.9	460.4	520.9	695.3	1034.7	1388.3	1658.8	1358.7
85°	119.9	128.2	181.6	214.8	218.3	230.2	262.3	306.2	369.1	440.2	361.9
87.5°	45.1	49.8	58.1	96.2	94.9	86.6	105.6	110.4	83.1	75.9	93.7
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1832.1	1832.1	1832.1	1832.1	1832.1	1832.1	1832.1	1832.1
2.5°	1827.4	1828.5	1828.5	1829.8	1830.9	1830.9	1833.3	1833.3
5°	1828.5	1828.5	1826.2	1827.4	1826.2	1826.2	1827.4	1827.4
7.5°	1826.2	1824.9	1822.6	1821.5	1819.0	1819.0	1819.0	1819.0
10°	1822.6	1821.5	1819.0	1817.9	1816.7	1816.7	1816.7	1816.7
12.5°	1832.1	1828.5	1826.2	1824.9	1824.9	1824.9	1824.9	1824.9
15°	1857.1	1848.7	1842.7	1842.7	1844.0	1846.3	1846.3	1848.7
17.5°	1887.9	1878.3	1872.4	1867.7	1870.1	1873.6	1876.0	1878.3
20°	1924.7	1919.9	1911.6	1906.9	1906.9	1911.6	1913.9	1915.2
22.5°	1975.7	1972.1	1968.6	1962.6	1962.6	1965.0	1969.8	1969.8
25°	2051.6	2049.3	2046.9	2042.1	2041.0	2041.0	2043.3	2045.7
27.5°	2146.6	2147.7	2145.3	2144.2	2140.6	2139.4	2143.0	2141.8
30°	2273.5	2279.4	2285.4	2280.7	2274.7	2271.2	2267.6	2262.9
32.5°	2445.6	2438.4	2433.7	2425.4	2414.7	2405.3	2398.1	2389.8
35°	2608.1	2596.2	2591.5	2598.6	2597.5	2591.5	2583.3	2576.1
37.5°	2807.5	2805.1	2807.5	2820.6	2818.1	2824.1	2807.5	2806.3
40°	3059.0	3061.4	3078.1	3093.4	3101.8	3110.1	3100.6	3091.1
42.5°	3351.0	3349.8	3355.7	3377.1	3391.3	3400.8	3380.6	3378.2
45°	3659.5	3651.1	3655.9	3673.7	3687.9	3698.6	3676.1	3676.1
47.5°	3998.8	3984.6	3969.2	3989.3	3997.6	4004.8	3987.0	3981.0
50°	4377.3	4347.6	4314.5	4322.8	4322.8	4320.4	4297.8	4296.7
52.5°	4811.7	4757.0	4696.6	4674.0	4661.0	4646.7	4607.6	4588.5
55°	5311.2	5229.3	5134.4	5076.3	5045.4	5006.2	4941.0	4923.2
57.5°	5895.0	5766.9	5603.1	5531.9	5463.1	5399.0	5326.6	5306.5
60°	6586.8	6398.1	6181.0	6049.2	5974.5	5912.8	5838.1	5834.5
62.5°	7358.1	7060.2	6814.6	6695.9	6641.4	6586.8	6515.6	6525.1
65°	8142.4	7831.5	7601.3	7505.2	7454.1	7409.1	7337.9	7348.6
67.5°	8916.0	8630.1	8377.4	8278.8	8221.9	8165.0	8100.8	8111.6
70°	9471.4	9116.6	8831.9	8613.5	8477.0	8322.7	8223.1	8198.1
72.5°	9312.4	8765.4	8313.3	7880.2	7626.2	7419.8	7279.7	7219.3
75°	8059.3	7311.7	6730.4	6198.8	5899.8	5656.5	5479.6	5369.4
77.5°	5985.2	5145.0	4458.0	3845.8	3361.6	3036.5	2807.5	2659.2
80°	3276.2	2491.8	1821.5	1280.3	941.0	781.9	690.6	646.7
82.5°	1020.5	658.6	485.3	418.9	389.2	372.6	345.3	301.4
85°	325.1	284.8	264.6	252.8	240.9	210.0	144.7	131.8
87.5°	125.8	129.3	128.2	121.0	123.4	89.0	71.2	62.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)