

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: P190883

Luminaire Tested: **GLEON-AF-05-LED-E1-5WQ-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190883  
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-05-LED-E1-5WQ-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25899.1 lumens  
Efficiency: N/A  
Efficacy: 123.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B5 - U0 - G3

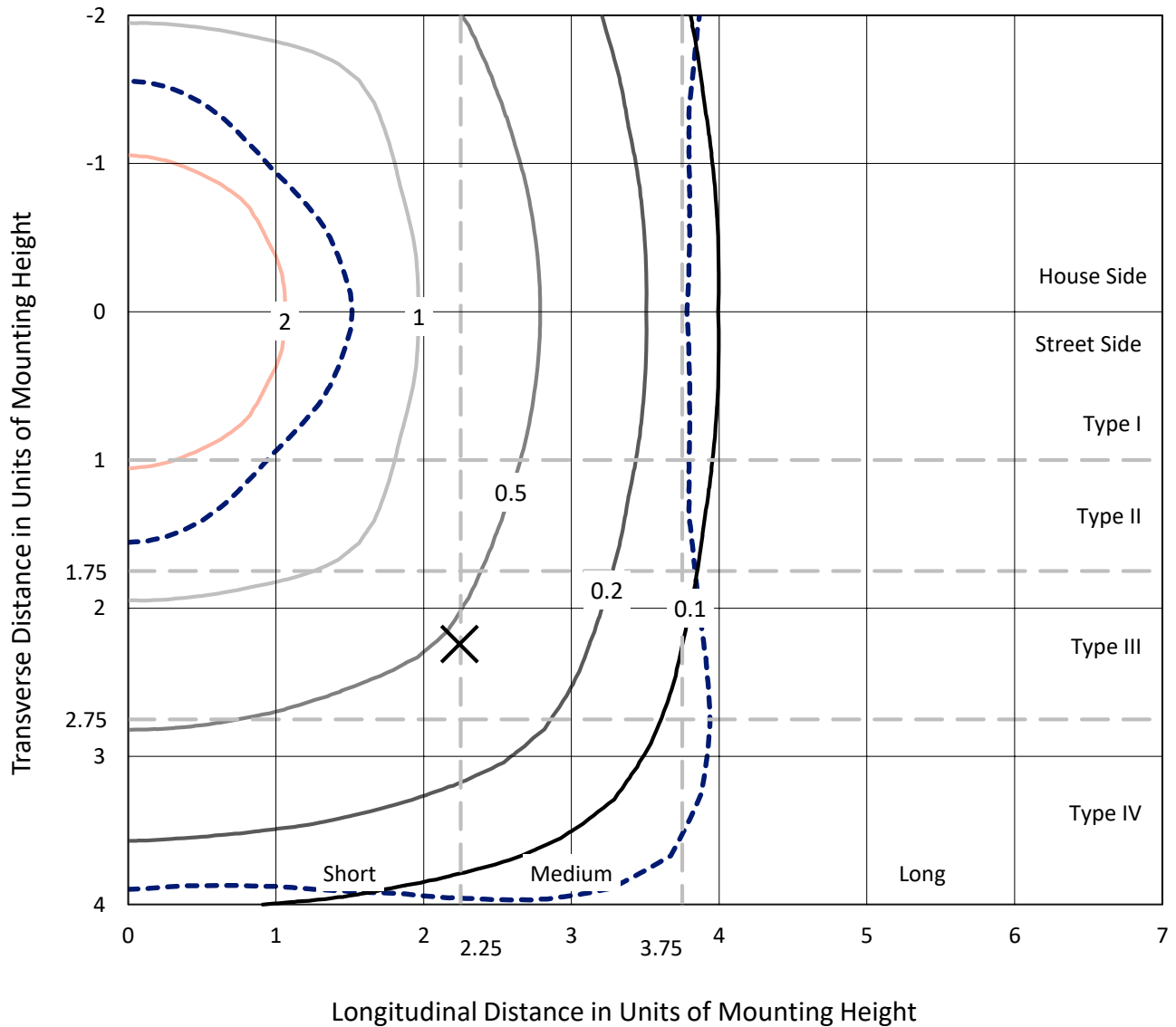
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P190883  
 CATALOG NUMBER: GLEON-AF-05-LED-E1-5WQ-800

### Iso-Footcandle Lines of Horizontal Illumination

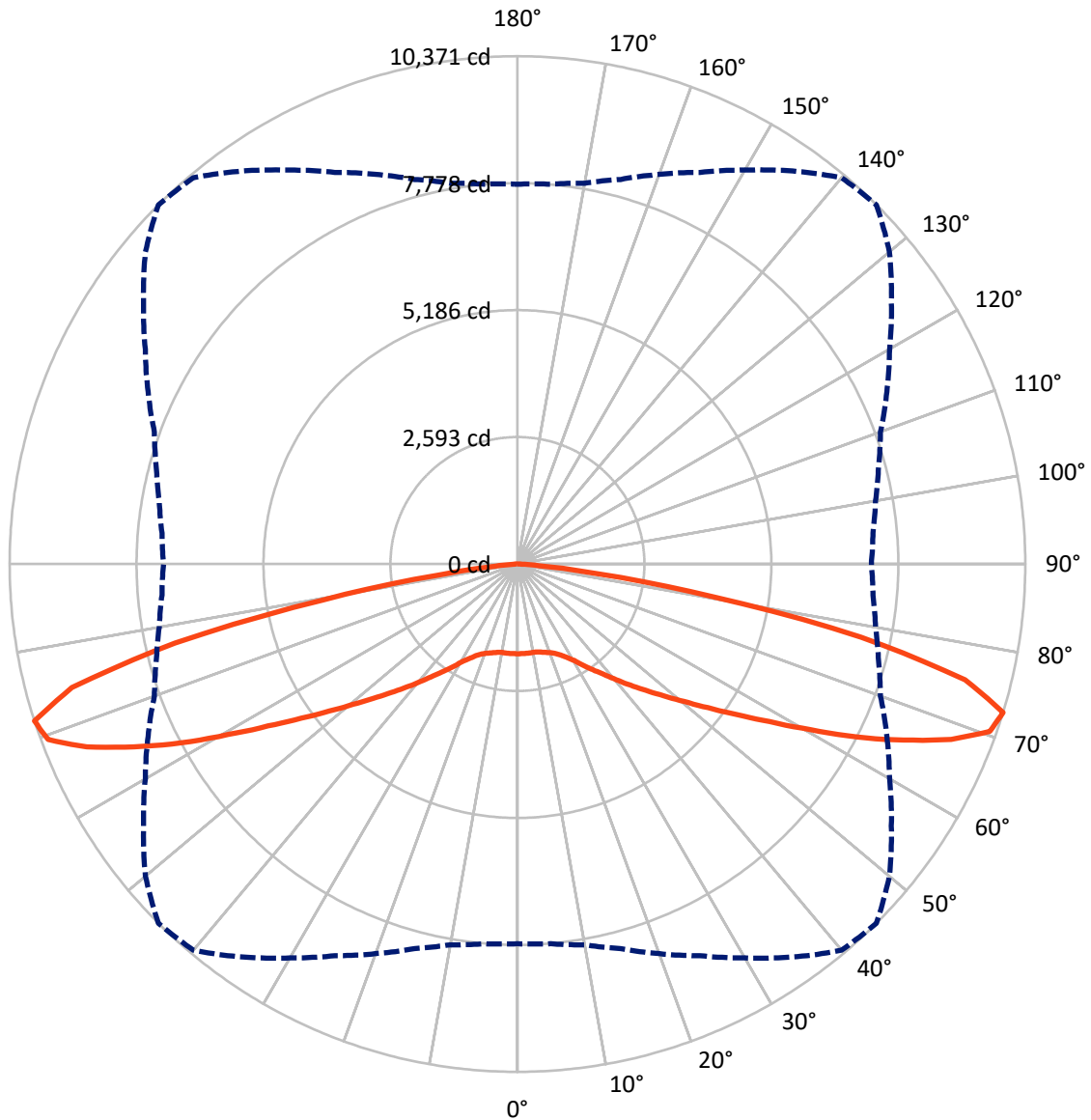
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P190883  
CATALOG NUMBER: GLEON-AF-05-LED-E1-5WQ-800

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P190883

CATALOG NUMBER: GLEON-AF-05-LED-E1-5WQ-800

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12949.5	0.0	12949.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12949.5	0.0	12949.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25899.1	0.0	25899.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.1	0.7
10°-20°	531.9	2.1
20°-30°	972.0	3.8
30°-40°	1675.9	6.5
40°-50°	2864.9	11.1
50°-60°	4643.6	17.9
60°-70°	7703.6	29.7
70°-80°	6785.0	26.2
80°-90°	547.1	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°	25899.1	100.0
0°-180°	25899.1	100.0



REPORT NUMBER: P190883

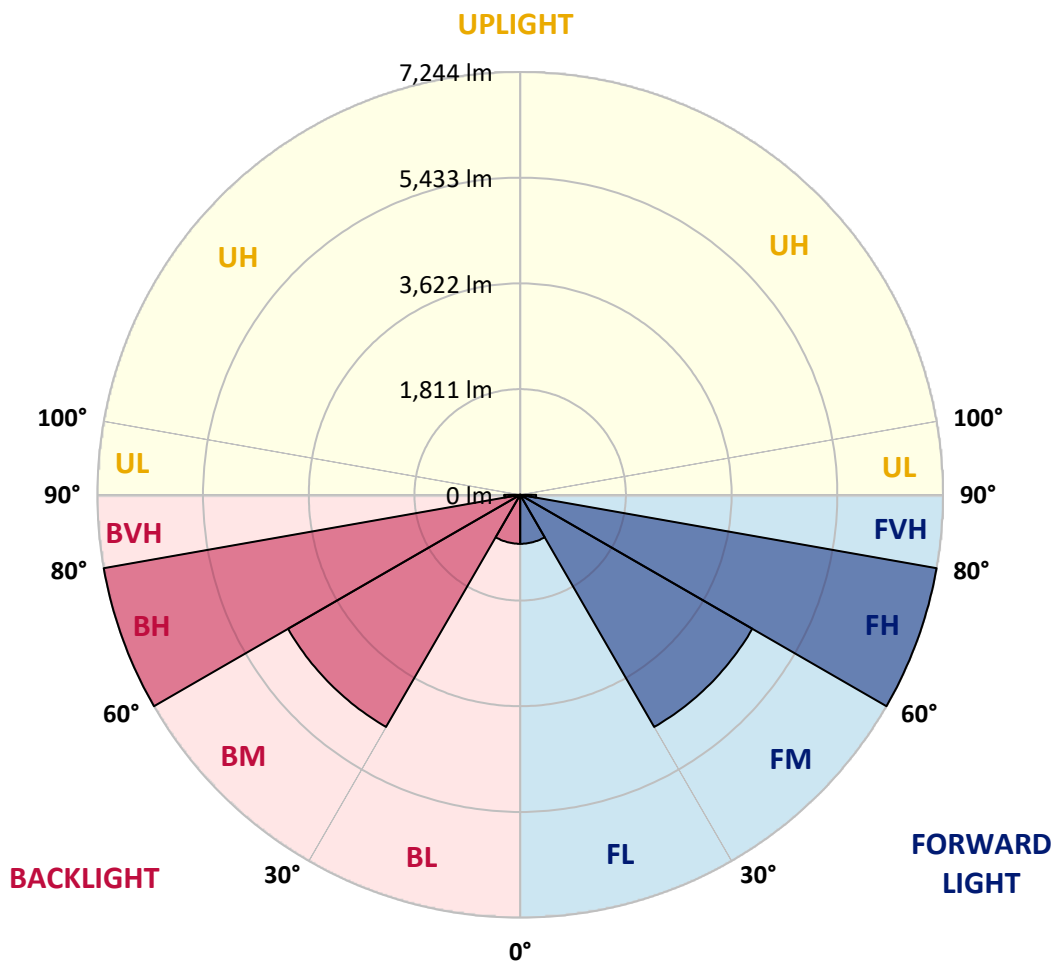
CATALOG NUMBER: GLEON-AF-05-LED-E1-5WQ-800

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	839.5	3.2			
FM	(30°-60°)	4592.2	17.7			
FH	(60°-80°)	7244.3	28.0			G3/7500
FVH	(80°-90°)	273.5	1.1			G3/500
BL	(0°-30°)	839.5	3.2	B2/1000		
BM	(30°-60°)	4592.2	17.7	B3/5000		
BH	(60°-80°)	7244.3	28.0	B5		G3/7500
BVH	(80°-90°)	273.5	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





REPORT NUMBER: P190883  
 CATALOG NUMBER: GLEON-AF-05-LED-E1-5WQ-800

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1834.0	1834.0	1834.0	1834.0	1834.0	1834.0	1834.0	1834.0	1834.0	1834.0	1834.0
2.5°	1834.0	1835.3	1836.4	1835.3	1835.3	1834.0	1832.8	1834.0	1832.8	1830.5	1831.7
5°	1840.0	1842.3	1842.3	1840.0	1841.2	1840.0	1837.6	1838.9	1836.4	1832.8	1832.8
7.5°	1847.1	1848.3	1848.3	1845.9	1847.1	1844.8	1842.3	1841.2	1838.9	1834.0	1830.5
10°	1857.8	1859.0	1857.8	1855.4	1855.4	1851.8	1845.9	1843.6	1838.9	1831.7	1828.1
12.5°	1869.6	1870.9	1869.6	1867.3	1866.2	1860.2	1855.4	1851.8	1848.3	1842.3	1836.4
15°	1886.3	1888.7	1886.3	1881.6	1878.0	1873.2	1870.9	1872.1	1873.2	1868.5	1862.6
17.5°	1917.2	1918.4	1914.9	1904.1	1899.4	1894.6	1894.6	1897.1	1900.5	1898.2	1892.3
20°	1974.2	1970.6	1962.3	1949.2	1943.3	1935.0	1933.8	1935.0	1935.0	1933.8	1929.1
22.5°	2045.5	2043.1	2032.4	2015.8	2007.4	2002.7	1995.6	1989.6	1988.5	1984.9	1980.1
25°	2131.0	2129.8	2116.8	2102.5	2096.5	2090.6	2084.7	2076.4	2069.2	2060.9	2056.2
27.5°	2240.3	2235.6	2216.5	2209.4	2201.1	2197.5	2189.2	2179.7	2173.8	2163.1	2157.2
30°	2360.3	2360.3	2344.8	2342.5	2342.5	2334.2	2324.7	2308.0	2297.3	2286.6	2283.0
32.5°	2480.2	2481.5	2466.0	2470.7	2474.3	2480.2	2482.6	2476.7	2469.6	2468.4	2461.2
35°	2653.6	2648.9	2633.5	2637.1	2635.8	2634.7	2634.7	2647.7	2650.2	2652.5	2638.2
37.5°	2868.7	2868.7	2853.2	2853.2	2846.2	2839.0	2829.5	2837.8	2850.9	2854.4	2844.9
40°	3114.6	3122.9	3103.8	3102.7	3105.1	3082.5	3071.8	3084.9	3093.2	3107.4	3096.8
42.5°	3404.4	3398.4	3379.4	3377.1	3364.0	3356.9	3347.4	3358.0	3371.1	3380.6	3384.2
45°	3682.3	3677.6	3656.2	3656.2	3643.1	3637.2	3642.0	3659.8	3665.7	3678.8	3691.8
47.5°	3956.8	3950.8	3936.5	3942.6	3943.7	3954.4	3969.9	3986.4	4003.1	4020.9	4026.8
50°	4237.1	4238.3	4222.8	4237.1	4255.0	4284.6	4326.2	4353.5	4387.9	4410.6	4417.6
52.5°	4492.5	4497.2	4513.9	4547.1	4582.7	4640.9	4712.2	4778.7	4835.8	4873.7	4871.4
55°	4799.0	4806.1	4846.4	4903.5	4961.7	5049.6	5155.3	5272.9	5367.9	5422.6	5388.1
57.5°	5191.0	5206.4	5251.5	5328.8	5415.5	5529.5	5674.4	5851.4	5998.7	6072.3	6016.5
60°	5729.0	5738.5	5793.2	5878.7	5983.2	6124.6	6318.3	6555.8	6763.6	6861.0	6796.9
62.5°	6438.2	6456.0	6499.9	6586.7	6693.6	6854.0	7090.4	7387.3	7646.3	7781.7	7636.7
65°	7285.1	7342.1	7379.0	7466.9	7566.7	7736.6	7983.6	8302.0	8579.9	8669.0	8501.5
67.5°	8123.8	8173.7	8237.8	8338.8	8439.8	8630.9	8860.3	9169.1	9474.4	9555.2	9295.0
70°	8490.8	8519.3	8619.1	8756.9	8950.5	9176.2	9441.1	9788.0	10165.7	10232.3	9902.0
72.5°	7755.5	7784.0	7895.7	8129.7	8467.1	8825.8	9287.9	9797.5	10296.4	10371.2	9916.3
75°	5865.7	5819.4	5984.5	6294.4	6749.4	7249.6	7895.7	8626.2	9347.3	9441.1	8898.2
77.5°	3031.4	3025.5	3150.2	3535.1	4077.9	4647.0	5358.4	6184.0	6889.6	7174.7	6732.8
80°	854.1	863.6	923.0	1114.2	1431.4	1842.3	2398.3	3171.6	3748.9	4043.5	3796.4
82.5°	335.0	361.1	383.7	419.3	460.8	521.5	696.1	1035.8	1389.8	1660.7	1360.1
85°	120.0	128.3	181.8	215.0	218.6	230.5	262.5	306.5	369.4	440.7	362.3
87.5°	45.1	49.9	58.2	96.3	95.0	86.7	105.7	110.5	83.2	76.0	93.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P190883  
 CATALOG NUMBER: GLEON-AF-05-LED-E1-5WQ-800

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1834.0	1834.0	1834.0	1834.0	1834.0	1834.0	1834.0	1834.0
2.5°	1829.3	1830.5	1830.5	1831.7	1832.8	1832.8	1835.3	1835.3
5°	1830.5	1830.5	1828.1	1829.3	1828.1	1828.1	1829.3	1829.3
7.5°	1828.1	1826.9	1824.5	1823.4	1821.0	1821.0	1821.0	1821.0
10°	1824.5	1823.4	1821.0	1819.8	1818.6	1818.6	1818.6	1818.6
12.5°	1834.0	1830.5	1828.1	1826.9	1826.9	1826.9	1826.9	1826.9
15°	1859.0	1850.7	1844.8	1844.8	1845.9	1848.3	1848.3	1850.7
17.5°	1889.9	1880.4	1874.5	1869.6	1872.1	1875.7	1878.0	1880.4
20°	1926.7	1921.9	1913.6	1908.9	1908.9	1913.6	1916.0	1917.2
22.5°	1977.8	1974.2	1970.6	1964.7	1964.7	1967.1	1971.8	1971.8
25°	2053.8	2051.4	2049.1	2044.3	2043.1	2043.1	2045.5	2047.8
27.5°	2148.8	2150.0	2147.7	2146.5	2142.9	2141.8	2145.2	2144.1
30°	2276.0	2281.9	2287.8	2283.0	2277.1	2273.6	2270.0	2265.2
32.5°	2448.2	2441.1	2436.3	2428.0	2417.3	2407.8	2400.7	2392.4
35°	2610.9	2599.0	2594.3	2601.4	2600.2	2594.3	2586.0	2578.9
37.5°	2810.5	2808.1	2810.5	2823.5	2821.2	2827.1	2810.5	2809.3
40°	3062.3	3064.7	3081.3	3096.8	3105.1	3113.4	3103.8	3094.4
42.5°	3354.6	3353.3	3359.3	3380.6	3394.9	3404.4	3384.2	3381.9
45°	3663.4	3655.0	3659.8	3677.6	3691.8	3702.6	3680.0	3680.0
47.5°	4003.1	3988.8	3973.3	3993.6	4001.9	4009.0	3991.2	3985.3
50°	4382.0	4352.3	4319.1	4327.4	4327.4	4325.0	4302.4	4301.2
52.5°	4816.8	4762.1	4701.6	4679.0	4665.9	4651.7	4612.5	4593.5
55°	5316.9	5235.0	5139.9	5081.7	5050.8	5011.5	4946.3	4928.5
57.5°	5901.3	5773.0	5609.0	5537.8	5468.9	5404.8	5332.3	5312.1
60°	6593.8	6404.9	6187.5	6055.7	5980.9	5919.1	5844.3	5840.7
62.5°	7366.0	7067.8	6821.9	6703.1	6648.5	6593.8	6522.5	6532.1
65°	8151.1	7839.9	7609.4	7513.3	7462.1	7417.0	7345.7	7356.4
67.5°	8925.6	8639.3	8386.3	8287.7	8230.7	8173.7	8109.5	8120.2
70°	9481.5	9126.4	8841.3	8622.7	8486.1	8331.6	8231.9	8206.9
72.5°	9322.4	8774.8	8322.1	7888.6	7634.4	7427.6	7287.5	7226.9
75°	8067.9	7319.6	6737.6	6205.4	5906.0	5662.5	5485.6	5375.1
77.5°	5991.5	5150.6	4462.8	3849.9	3365.2	3039.7	2810.5	2662.0
80°	3279.7	2494.5	1823.4	1281.7	941.9	782.8	691.3	647.4
82.5°	1021.5	659.3	485.8	419.3	389.6	373.0	345.7	301.7
85°	325.5	285.1	264.8	253.0	241.1	210.2	145.0	131.9
87.5°	125.9	129.5	128.3	121.1	123.6	89.1	71.3	62.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)