

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: P269212

Luminaire Tested: **GLEON-AF-04-LED-E1-5WQ-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269212  
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-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24104.2 lumens  
Efficiency: N/A  
Efficacy: 93.4 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): 258  
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

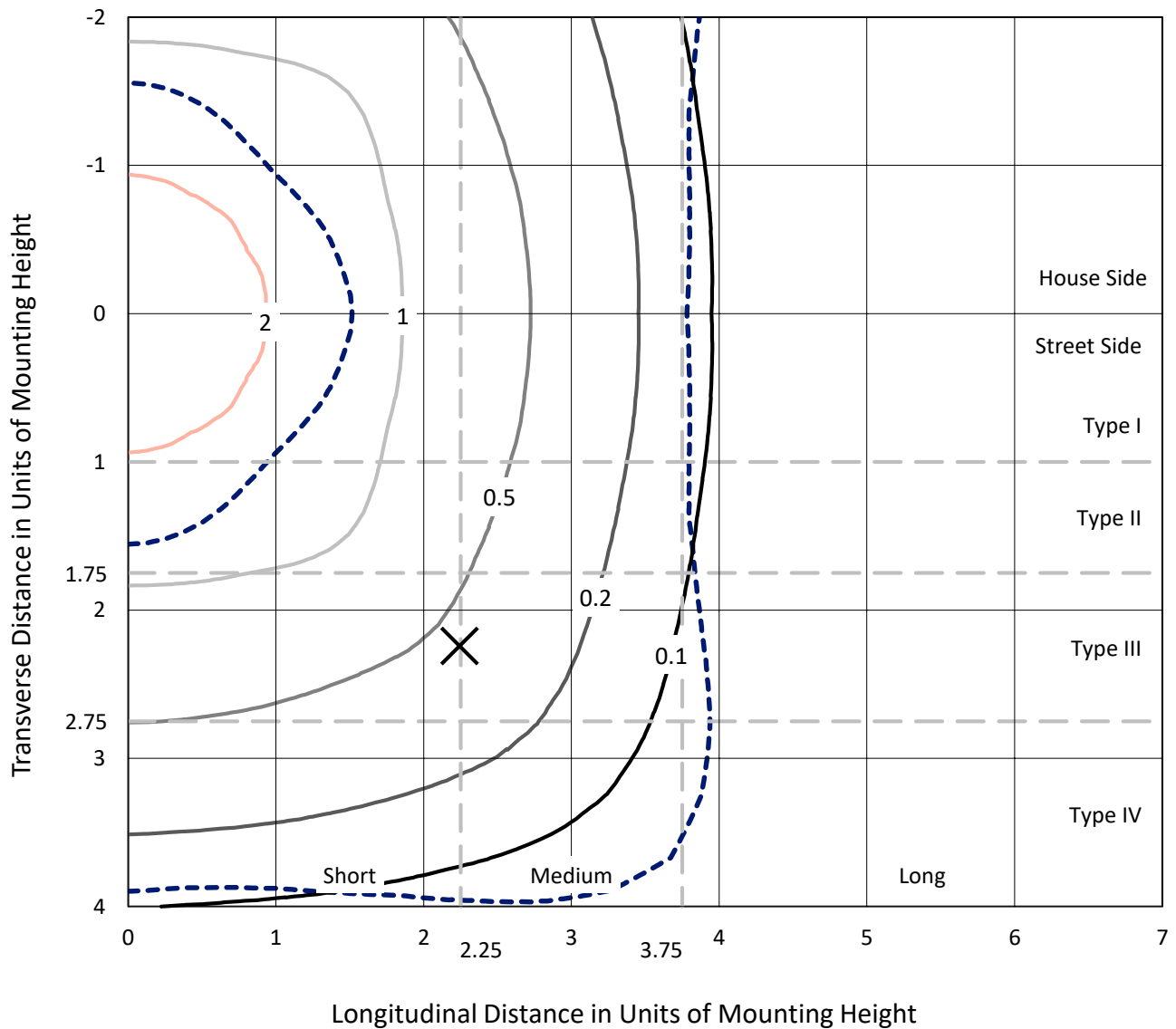


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

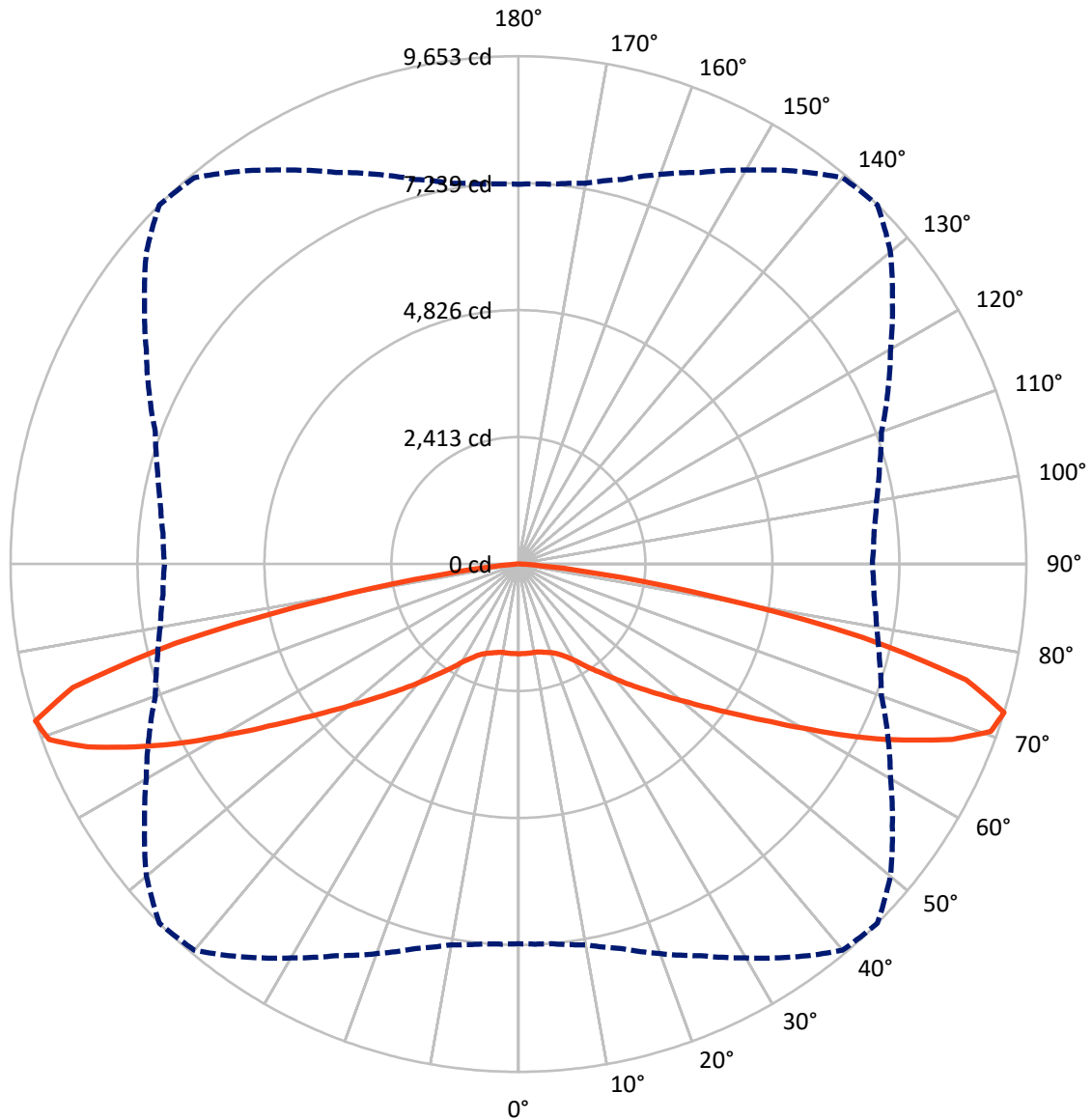


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type V - Short - Semi-Cutoff

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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	12052.1	0.0	12052.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12052.1	0.0	12052.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	24104.2	0.0	24104.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.0	0.7
10°-20°	495.0	2.1
20°-30°	904.6	3.8
30°-40°	1559.7	6.5
40°-50°	2666.3	11.1
50°-60°	4321.8	17.9
60°-70°	7169.7	29.7
70°-80°	6314.8	26.2
80°-90°	509.2	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°	24104.2	100.0
0°-180°	24104.2	100.0



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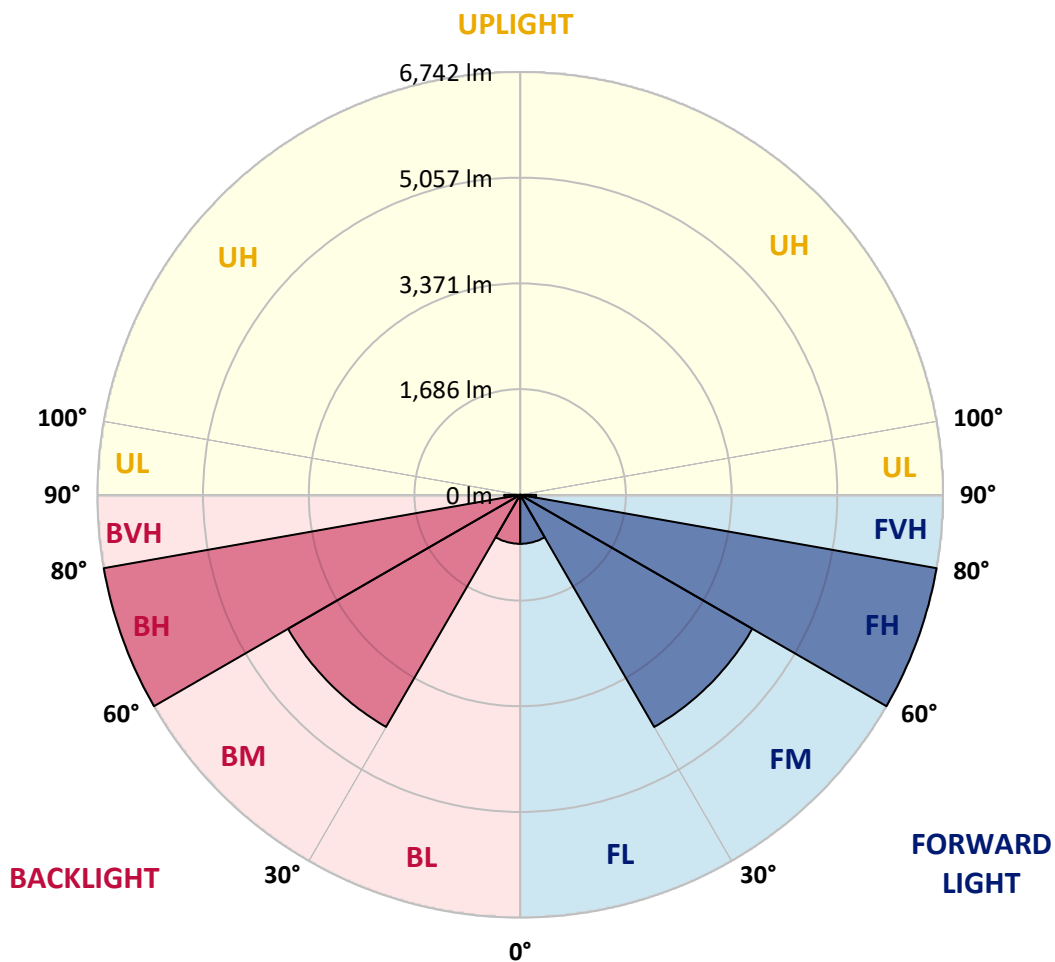
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	781.3	3.2			
FM	(30°-60°)	4273.9	17.7			
FH	(60°-80°)	6742.3	28.0			G3/7500
FVH	(80°-90°)	254.6	1.1			G3/500
BL	(0°-30°)	781.3	3.2	B2/1000		
BM	(30°-60°)	4273.9	17.7	B3/5000		
BH	(60°-80°)	6742.3	28.0	B5		G3/7500
BVH	(80°-90°)	254.6	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°	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0
2.5°	1707.0	1708.0	1709.1	1708.0	1708.0	1707.0	1705.8	1707.0	1705.8	1703.6	1704.8
5°	1712.4	1714.7	1714.7	1712.4	1713.5	1712.4	1710.3	1711.5	1709.1	1705.8	1705.8
7.5°	1719.0	1720.3	1720.3	1718.0	1719.0	1716.9	1714.7	1713.5	1711.5	1707.0	1703.6
10°	1729.1	1730.1	1729.1	1726.8	1726.8	1723.6	1718.0	1715.9	1711.5	1704.8	1701.4
12.5°	1740.1	1741.3	1740.1	1738.0	1736.9	1731.3	1726.8	1723.6	1720.3	1714.7	1709.1
15°	1755.6	1757.9	1755.6	1751.2	1747.8	1743.4	1741.3	1742.4	1743.4	1738.9	1733.5
17.5°	1784.4	1785.4	1782.1	1772.1	1767.8	1763.4	1763.4	1765.6	1768.9	1766.6	1761.1
20°	1837.5	1834.1	1826.3	1814.1	1808.6	1800.9	1799.8	1800.9	1800.9	1799.8	1795.4
22.5°	1903.8	1901.5	1891.7	1876.1	1868.4	1864.0	1857.2	1851.8	1850.7	1847.4	1843.0
25°	1983.4	1982.2	1970.1	1956.8	1951.3	1945.8	1940.2	1932.4	1925.8	1918.2	1913.7
27.5°	2085.1	2080.7	2063.0	2056.3	2048.6	2045.3	2037.5	2028.6	2023.2	2013.2	2007.6
30°	2196.7	2196.7	2182.3	2180.1	2180.1	2172.5	2163.6	2148.0	2138.1	2128.2	2124.9
32.5°	2308.4	2309.5	2295.1	2299.5	2302.8	2308.4	2310.6	2305.1	2298.5	2297.3	2290.7
35°	2469.8	2465.4	2450.9	2454.3	2453.2	2452.2	2452.2	2464.2	2466.4	2468.6	2455.3
37.5°	2669.9	2669.9	2655.5	2655.5	2648.8	2642.3	2633.4	2641.1	2653.4	2656.6	2647.8
40°	2898.7	2906.5	2888.8	2887.7	2889.8	2868.8	2858.9	2871.2	2878.8	2892.2	2882.1
42.5°	3168.5	3162.9	3145.2	3143.0	3131.0	3124.2	3115.4	3125.4	3137.5	3146.4	3149.6
45°	3427.2	3422.7	3402.9	3402.9	3390.7	3385.2	3389.6	3406.2	3411.8	3423.9	3435.9
47.5°	3682.5	3677.0	3663.7	3669.2	3670.4	3680.4	3694.6	3710.2	3725.7	3742.2	3747.8
50°	3943.5	3944.5	3930.2	3943.5	3960.1	3987.7	4026.4	4051.7	4083.9	4104.9	4111.5
52.5°	4181.2	4185.6	4201.1	4232.1	4265.2	4319.3	4385.6	4447.6	4500.7	4536.0	4533.8
55°	4466.4	4473.0	4510.6	4563.7	4617.8	4699.7	4798.0	4907.5	4996.0	5046.8	5014.7
57.5°	4831.3	4845.5	4887.6	4959.5	5040.1	5146.3	5281.1	5445.9	5583.0	5651.4	5599.6
60°	5332.0	5340.9	5391.6	5471.2	5568.7	5700.1	5880.3	6101.5	6295.0	6385.6	6326.0
62.5°	5992.1	6008.7	6049.5	6130.3	6229.7	6379.0	6598.9	6875.4	7116.4	7242.3	7107.5
65°	6780.2	6833.3	6867.6	6949.4	7042.4	7200.4	7430.3	7726.6	7985.4	8068.2	7912.4
67.5°	7560.8	7607.1	7666.9	7760.8	7854.9	8032.9	8246.3	8533.7	8817.9	8893.0	8650.9
70°	7902.4	7928.9	8021.8	8150.1	8330.3	8540.2	8786.9	9109.6	9461.2	9523.1	9215.8
72.5°	7218.2	7244.7	7348.6	7566.3	7880.3	8214.1	8644.2	9118.4	9582.8	9652.5	9229.0
75°	5459.2	5416.1	5569.8	5858.2	6281.7	6747.1	7348.6	8028.4	8699.5	8786.9	8281.6
77.5°	2821.3	2815.7	2931.9	3290.1	3795.2	4324.9	4987.1	5755.4	6412.1	6677.5	6266.1
80°	794.9	803.8	859.0	1037.1	1332.1	1714.7	2232.1	2951.8	3489.0	3763.3	3533.4
82.5°	311.7	336.1	357.0	390.3	428.9	485.4	647.9	964.1	1293.5	1545.5	1265.8
85°	111.7	119.5	169.2	200.1	203.5	214.4	244.2	285.2	343.8	410.2	337.3
87.5°	42.0	46.4	54.2	89.6	88.5	80.7	98.4	102.9	77.3	70.7	87.3
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°	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0
2.5°	1702.6	1703.6	1703.6	1704.8	1705.8	1705.8	1708.0	1708.0
5°	1703.6	1703.6	1701.4	1702.6	1701.4	1701.4	1702.6	1702.6
7.5°	1701.4	1700.3	1698.1	1697.0	1694.8	1694.8	1694.8	1694.8
10°	1698.1	1697.0	1694.8	1693.7	1692.5	1692.5	1692.5	1692.5
12.5°	1707.0	1703.6	1701.4	1700.3	1700.3	1700.3	1700.3	1700.3
15°	1730.1	1722.4	1716.9	1716.9	1718.0	1720.3	1720.3	1722.4
17.5°	1758.9	1750.1	1744.6	1740.1	1742.4	1745.6	1747.8	1750.1
20°	1793.1	1788.7	1781.0	1776.6	1776.6	1781.0	1783.2	1784.4
22.5°	1840.7	1837.5	1834.1	1828.6	1828.6	1830.7	1835.1	1835.1
25°	1911.5	1909.3	1907.0	1902.6	1901.5	1901.5	1903.8	1905.9
27.5°	1999.9	2001.1	1998.8	1997.7	1994.3	1993.2	1996.7	1995.4
30°	2118.3	2123.8	2129.3	2124.9	2119.3	2116.0	2112.6	2108.2
32.5°	2278.6	2271.9	2267.4	2259.7	2249.7	2240.9	2234.4	2226.5
35°	2429.9	2419.0	2414.6	2421.1	2420.0	2414.6	2406.7	2400.1
37.5°	2615.8	2613.4	2615.8	2627.8	2625.7	2631.1	2615.8	2614.5
40°	2850.1	2852.3	2867.7	2882.1	2889.8	2897.7	2888.8	2880.0
42.5°	3122.0	3120.9	3126.6	3146.4	3159.6	3168.5	3149.6	3147.5
45°	3409.4	3401.7	3406.2	3422.7	3435.9	3446.0	3425.0	3425.0
47.5°	3725.7	3712.3	3698.1	3716.8	3724.6	3731.2	3714.6	3709.1
50°	4078.3	4050.6	4019.7	4027.6	4027.6	4025.2	4004.3	4003.1
52.5°	4482.9	4432.1	4375.7	4354.8	4342.5	4329.3	4292.8	4275.2
55°	4948.5	4872.0	4783.7	4729.4	4700.7	4664.3	4603.5	4586.8
57.5°	5492.2	5372.9	5220.4	5154.0	5089.8	5030.1	4962.7	4944.0
60°	6136.9	5961.1	5758.8	5636.1	5566.3	5508.9	5439.2	5436.0
62.5°	6855.4	6578.0	6349.1	6238.5	6187.7	6136.9	6070.6	6079.4
65°	7586.1	7296.6	7082.1	6992.5	6944.9	6902.9	6836.6	6846.6
67.5°	8307.0	8040.5	7805.2	7713.3	7660.2	7607.1	7547.5	7557.5
70°	8824.4	8493.8	8228.6	8025.1	7898.0	7754.3	7661.4	7638.2
72.5°	8676.3	8166.6	7745.4	7341.8	7105.4	6912.9	6782.6	6726.1
75°	7508.8	6812.3	6270.6	5775.4	5496.8	5270.0	5105.3	5002.7
77.5°	5576.4	4793.6	4153.6	3583.1	3132.0	2829.1	2615.8	2477.5
80°	3052.4	2321.6	1697.0	1192.9	876.7	728.5	643.5	602.6
82.5°	950.8	613.6	452.1	390.3	362.6	347.1	321.8	280.8
85°	302.9	265.3	246.6	235.4	224.4	195.7	134.8	122.7
87.5°	117.1	120.6	119.5	112.7	115.0	83.0	66.4	58.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)