

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: P269450

Luminaire Tested: **GLEON-AF-07-LED-E1-5WQ-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269450  
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-07-LED-E1-5WQ-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25386 lumens  
Efficiency: N/A  
Efficacy: 112.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B5 - U0 - G3

Input Watts (W): 226  
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

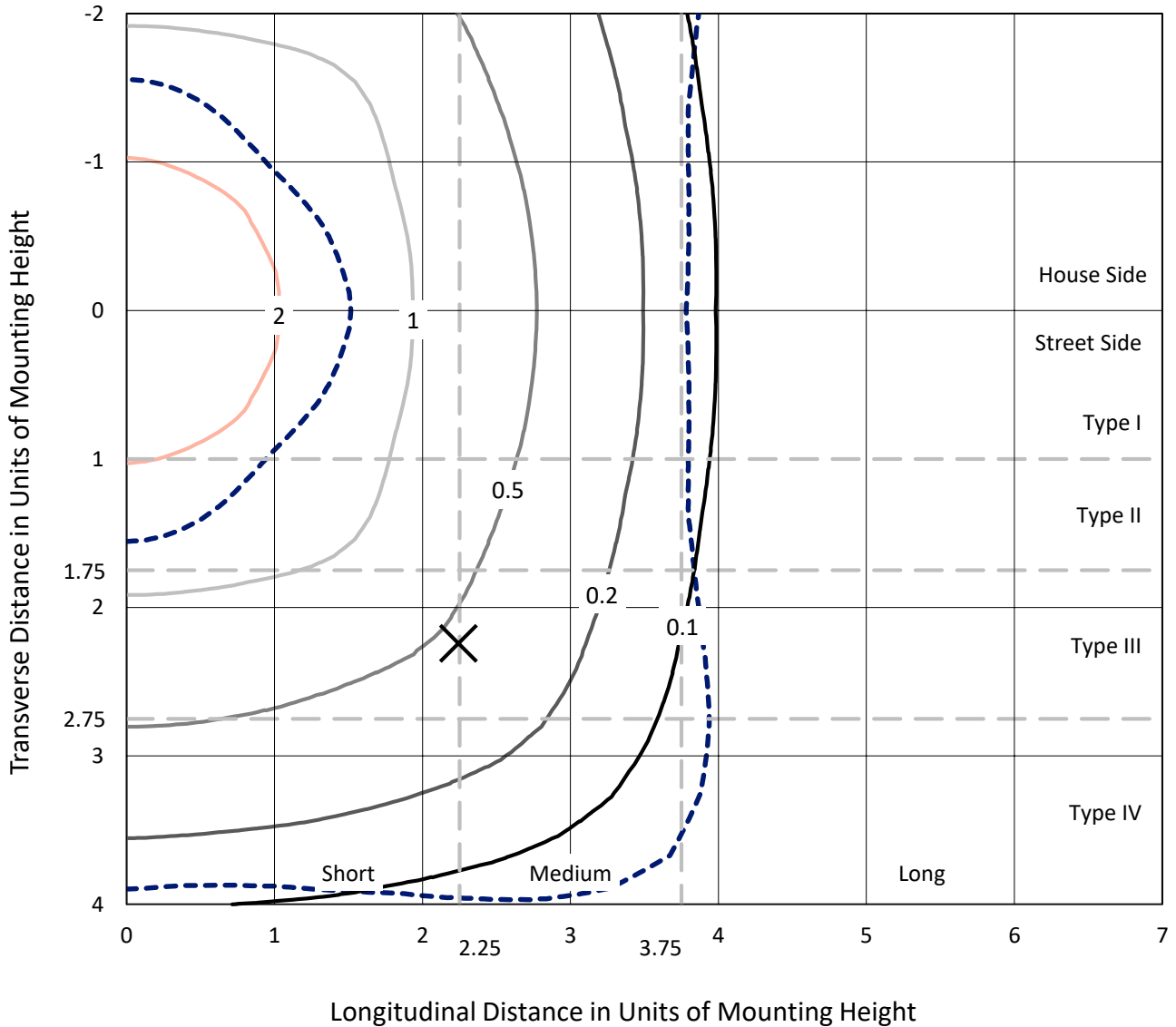


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

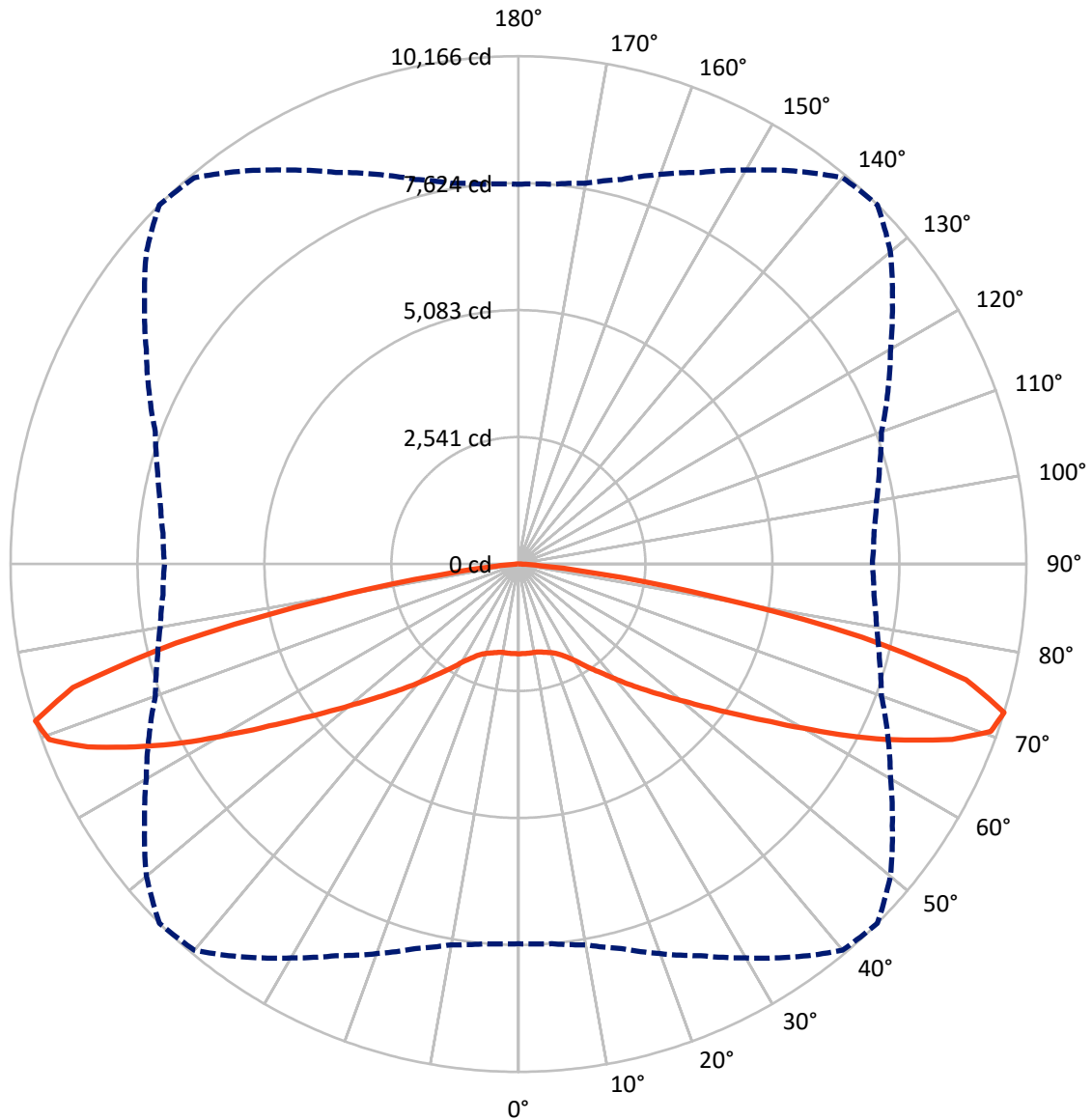


Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type V - Short - Semi-Cutoff

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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	12693.0	0.0	12693.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12693.0	0.0	12693.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25386.0	0.0	25386.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.7	0.7
10°-20°	521.4	2.1
20°-30°	952.7	3.8
30°-40°	1642.7	6.5
40°-50°	2808.1	11.1
50°-60°	4551.6	17.9
60°-70°	7551.0	29.7
70°-80°	6650.6	26.2
80°-90°	536.2	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°	25386.0	100.0
0°-180°	25386.0	100.0



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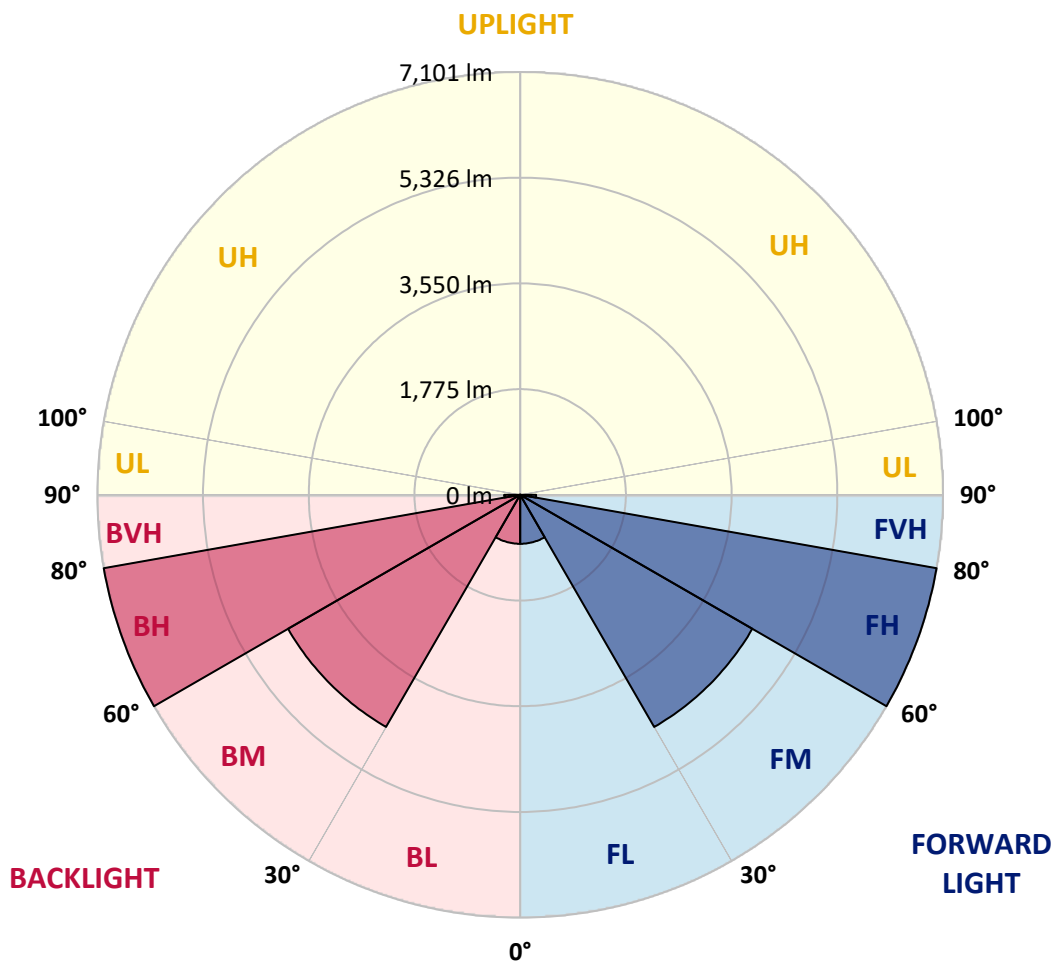
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	822.9	3.2			
FM	(30°-60°)	4501.2	17.7			
FH	(60°-80°)	7100.8	28.0			G3/7500
FVH	(80°-90°)	268.1	1.1			G3/500
BL	(0°-30°)	822.9	3.2	B2/1000		
BM	(30°-60°)	4501.2	17.7	B3/5000		
BH	(60°-80°)	7100.8	28.0	B5		G3/7500
BVH	(80°-90°)	268.1	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°	1797.7	1797.7	1797.7	1797.7	1797.7	1797.7	1797.7	1797.7	1797.7	1797.7	1797.7
2.5°	1797.7	1798.9	1800.1	1798.9	1798.9	1797.7	1796.6	1797.7	1796.6	1794.3	1795.4
5°	1803.5	1805.9	1805.9	1803.5	1804.8	1803.5	1801.2	1802.4	1800.1	1796.6	1796.6
7.5°	1810.5	1811.7	1811.7	1809.4	1810.5	1808.2	1805.9	1804.8	1802.4	1797.7	1794.3
10°	1821.0	1822.2	1821.0	1818.7	1818.7	1815.1	1809.4	1807.0	1802.4	1795.4	1791.8
12.5°	1832.6	1833.8	1832.6	1830.3	1829.2	1823.3	1818.7	1815.1	1811.7	1805.9	1800.1
15°	1848.9	1851.2	1848.9	1844.3	1840.7	1836.1	1833.8	1835.0	1836.1	1831.5	1825.6
17.5°	1879.3	1880.4	1876.9	1866.4	1861.7	1857.1	1857.1	1859.4	1862.9	1860.6	1854.8
20°	1935.0	1931.6	1923.5	1910.7	1904.9	1896.7	1895.6	1896.7	1896.7	1895.6	1890.8
22.5°	2004.9	2002.6	1992.3	1975.8	1967.6	1963.1	1956.1	1950.2	1949.1	1945.5	1941.0
25°	2088.7	2087.7	2074.8	2060.8	2055.1	2049.3	2043.5	2035.2	2028.3	2020.1	2015.4
27.5°	2195.9	2191.2	2172.6	2165.6	2157.5	2154.0	2145.8	2136.6	2130.7	2120.2	2114.4
30°	2313.6	2313.6	2298.5	2296.1	2296.1	2288.0	2278.6	2262.3	2251.8	2241.4	2237.9
32.5°	2431.2	2432.3	2417.2	2421.8	2425.3	2431.2	2433.5	2427.6	2420.7	2419.4	2412.5
35°	2601.1	2596.5	2581.3	2584.9	2583.6	2582.4	2582.4	2595.4	2597.5	2600.0	2586.0
37.5°	2811.9	2811.9	2796.8	2796.8	2789.7	2782.8	2773.4	2781.6	2794.4	2798.0	2788.6
40°	3052.9	3061.1	3042.4	3041.2	3043.5	3021.4	3010.9	3023.8	3031.9	3046.0	3035.5
42.5°	3336.9	3331.2	3312.5	3310.2	3297.4	3290.4	3281.1	3291.6	3304.3	3313.7	3317.3
45°	3609.4	3604.8	3583.8	3583.8	3571.0	3565.2	3569.9	3587.3	3593.1	3605.9	3618.7
47.5°	3878.4	3872.6	3858.6	3864.4	3865.5	3876.0	3891.2	3907.4	3923.7	3941.3	3947.1
50°	4153.1	4154.3	4139.2	4153.1	4170.7	4199.8	4240.4	4267.3	4301.1	4323.2	4330.1
52.5°	4403.5	4408.2	4424.4	4457.0	4492.0	4549.0	4618.8	4684.1	4739.9	4777.2	4774.9
55°	4703.9	4710.9	4750.4	4806.3	4863.5	4949.7	5053.1	5168.5	5261.6	5315.1	5281.3
57.5°	5088.1	5103.2	5147.5	5223.1	5308.2	5420.0	5561.9	5735.5	5879.9	5952.1	5897.4
60°	5615.6	5624.8	5678.5	5762.3	5864.8	6003.4	6193.1	6425.9	6629.8	6725.3	6662.3
62.5°	6310.7	6328.1	6371.1	6456.2	6561.0	6718.2	6949.8	7241.0	7494.7	7627.5	7485.4
65°	7140.8	7196.7	7232.9	7319.0	7416.8	7583.3	7825.5	8137.4	8409.9	8497.2	8333.0
67.5°	7962.8	8011.8	8074.7	8173.6	8272.5	8460.0	8684.8	8987.5	9286.7	9365.9	9110.9
70°	8322.6	8350.6	8448.4	8583.5	8773.2	8994.5	9254.1	9594.1	9964.3	10029.5	9705.8
72.5°	7601.8	7629.8	7739.3	7968.7	8299.4	8650.9	9104.0	9603.4	10092.4	10165.8	9719.8
75°	5749.4	5704.1	5865.9	6169.7	6615.7	7106.0	7739.3	8455.3	9162.2	9254.1	8722.1
77.5°	2971.4	2965.6	3087.8	3465.0	3997.2	4554.9	5252.3	6061.6	6753.1	7032.6	6599.4
80°	837.1	846.5	904.8	1092.1	1403.1	1805.9	2350.8	3108.8	3674.6	3963.4	3721.1
82.5°	328.3	353.9	376.1	411.1	451.8	511.1	682.4	1015.4	1362.3	1627.6	1333.2
85°	117.6	125.8	178.1	210.7	214.2	225.8	257.4	300.5	362.0	431.9	355.1
87.5°	44.2	48.9	57.0	94.3	93.2	85.0	103.7	108.2	81.4	74.5	91.9
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°	1797.7	1797.7	1797.7	1797.7	1797.7	1797.7	1797.7	1797.7
2.5°	1793.0	1794.3	1794.3	1795.4	1796.6	1796.6	1798.9	1798.9
5°	1794.3	1794.3	1791.8	1793.0	1791.8	1791.8	1793.0	1793.0
7.5°	1791.8	1790.7	1788.4	1787.3	1784.9	1784.9	1784.9	1784.9
10°	1788.4	1787.3	1784.9	1783.8	1782.5	1782.5	1782.5	1782.5
12.5°	1797.7	1794.3	1791.8	1790.7	1790.7	1790.7	1790.7	1790.7
15°	1822.2	1814.0	1808.2	1808.2	1809.4	1811.7	1811.7	1814.0
17.5°	1852.5	1843.1	1837.4	1832.6	1835.0	1838.6	1840.7	1843.1
20°	1888.5	1883.8	1875.8	1871.1	1871.1	1875.8	1878.0	1879.3
22.5°	1938.6	1935.0	1931.6	1925.7	1925.7	1928.1	1932.9	1932.9
25°	2013.1	2010.8	2008.5	2003.8	2002.6	2002.6	2004.9	2007.4
27.5°	2106.3	2107.5	2105.1	2103.9	2100.4	2099.2	2102.8	2101.7
30°	2230.9	2236.7	2242.4	2237.9	2232.0	2228.5	2225.0	2220.4
32.5°	2399.7	2392.6	2388.1	2379.9	2369.4	2360.0	2353.1	2344.9
35°	2559.2	2547.6	2542.9	2549.8	2548.8	2542.9	2534.7	2527.8
37.5°	2754.8	2752.4	2754.8	2767.6	2765.3	2771.1	2754.8	2753.7
40°	3001.6	3003.9	3020.3	3035.5	3043.5	3051.7	3042.4	3033.0
42.5°	3288.1	3286.9	3292.7	3313.7	3327.6	3336.9	3317.3	3314.8
45°	3590.7	3582.6	3587.3	3604.8	3618.7	3629.2	3607.1	3607.1
47.5°	3923.7	3909.9	3894.7	3914.5	3922.5	3929.6	3912.2	3906.3
50°	4295.2	4266.1	4233.5	4241.6	4241.6	4239.3	4217.3	4216.0
52.5°	4721.3	4667.9	4608.5	4586.2	4573.5	4559.4	4521.1	4502.5
55°	5211.5	5131.2	5038.1	4981.0	4950.6	4912.3	4848.2	4830.7
57.5°	5784.4	5658.7	5497.9	5428.1	5360.5	5297.8	5226.7	5206.8
60°	6463.1	6278.1	6064.9	5935.7	5862.3	5801.9	5728.5	5725.0
62.5°	7219.9	6927.8	6686.8	6570.4	6516.8	6463.1	6393.3	6402.7
65°	7989.6	7684.6	7458.6	7364.3	7314.3	7270.1	7200.3	7210.6
67.5°	8748.8	8468.1	8220.2	8123.6	8067.7	8011.8	7948.9	7959.3
70°	9293.7	8945.5	8666.0	8451.9	8317.9	8166.6	8068.8	8044.3
72.5°	9137.6	8600.9	8157.2	7732.3	7483.2	7280.6	7143.1	7083.8
75°	7908.0	7174.7	6604.1	6082.5	5789.0	5550.4	5376.9	5268.6
77.5°	5872.8	5048.6	4374.3	3773.6	3298.5	2979.5	2754.8	2609.2
80°	3214.8	2445.0	1787.3	1256.3	923.3	767.3	677.6	634.6
82.5°	1001.3	646.2	476.2	411.1	381.9	365.6	338.8	295.7
85°	319.0	279.5	259.6	248.0	236.3	206.2	142.0	129.3
87.5°	123.3	126.9	125.8	118.8	121.1	87.3	69.9	61.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)