

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: P190874

Luminaire Tested: **GLEON-AF-06-LED-E1-5WQ-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190874
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-06-LED-E1-5WQ-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 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: 25274 lumens
Efficiency: N/A
Efficacy: 131.0 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

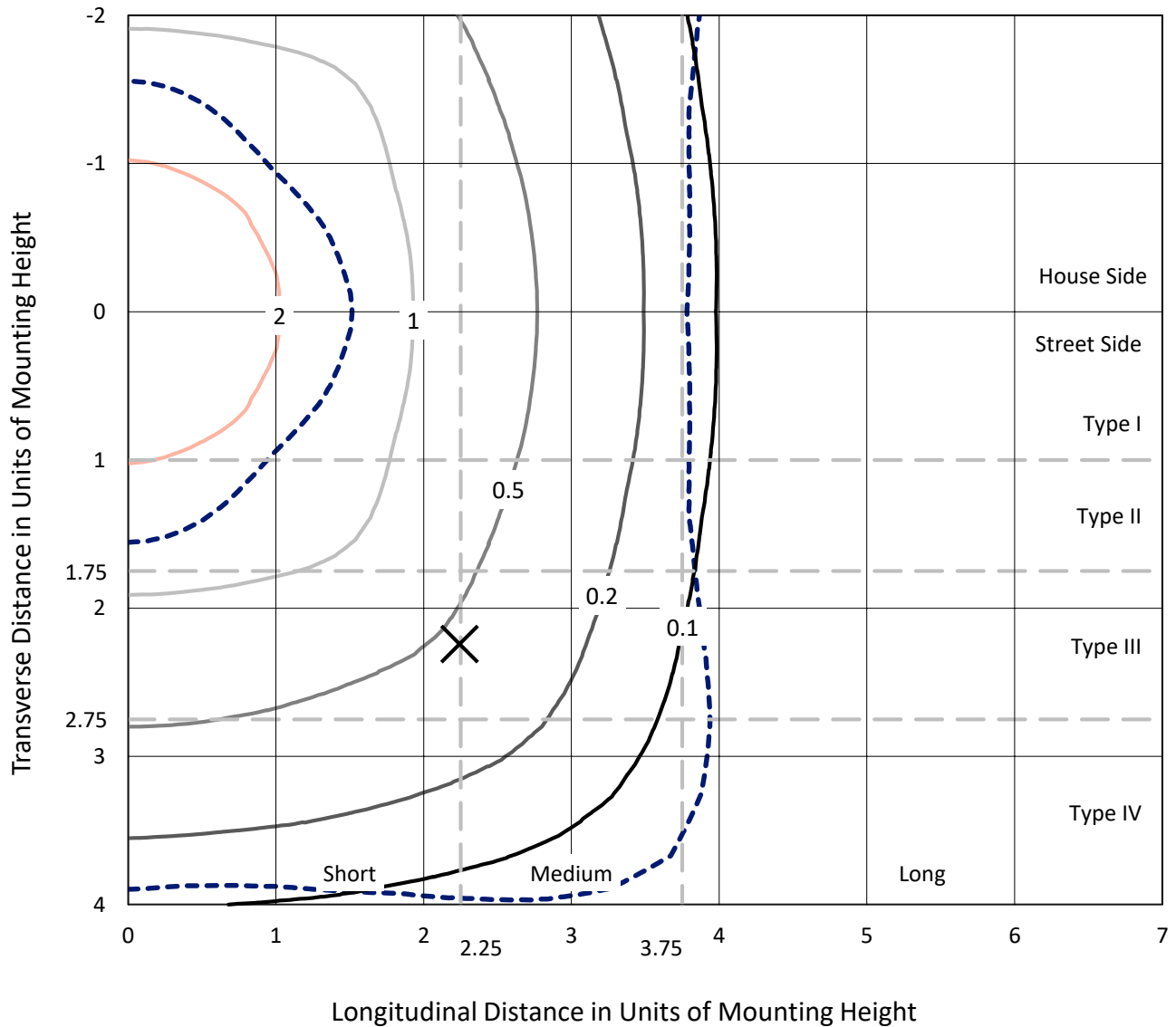
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

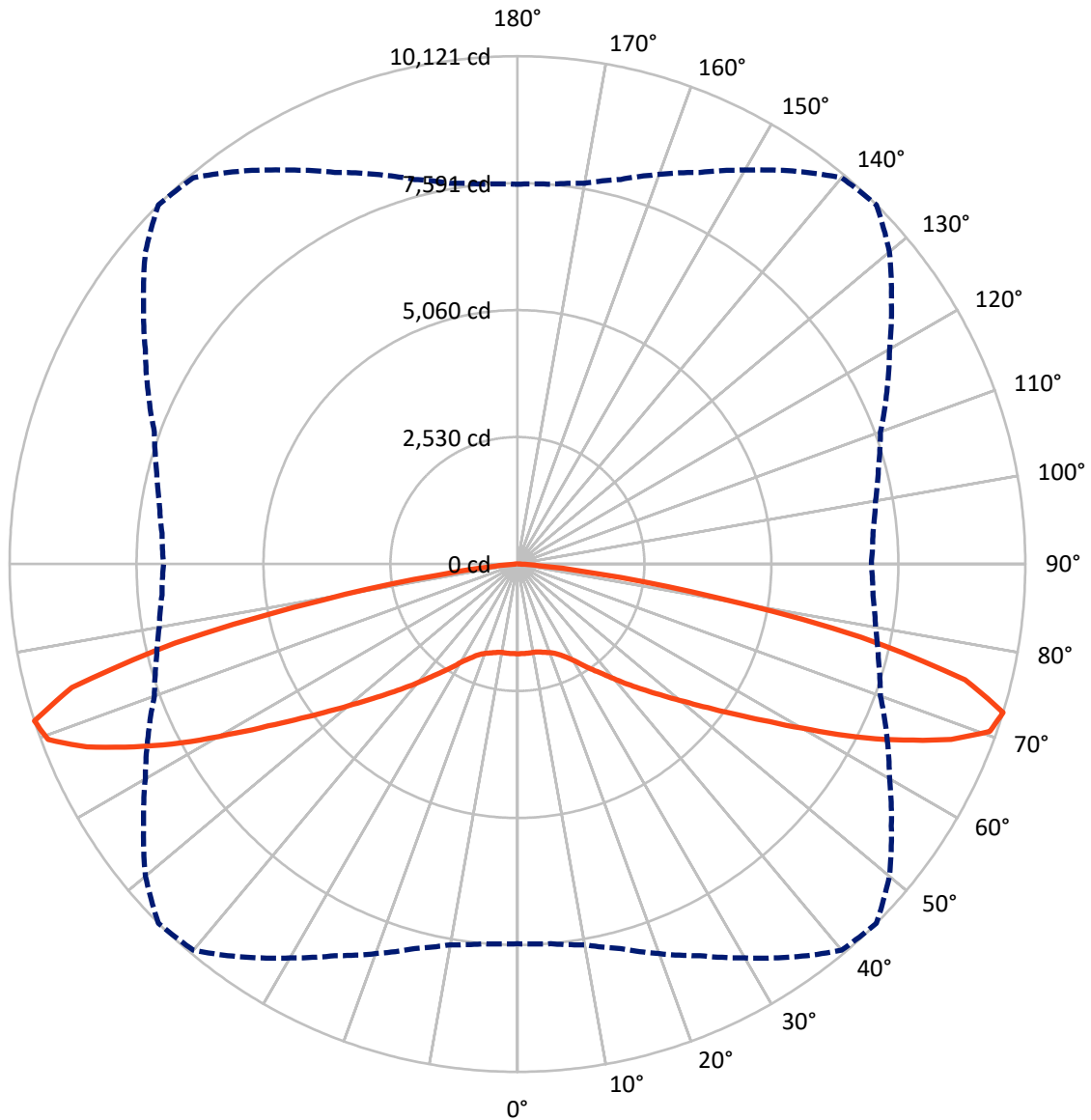
× Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	12637.0	0.0	12637.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12637.0	0.0	12637.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25274.0	0.0	25274.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.9	0.7
10°-20°	519.1	2.1
20°-30°	948.5	3.8
30°-40°	1635.4	6.5
40°-50°	2795.7	11.1
50°-60°	4531.5	17.9
60°-70°	7517.7	29.7
70°-80°	6621.3	26.2
80°-90°	533.9	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°	25274.0	100.0
0°-180°	25274.0	100.0



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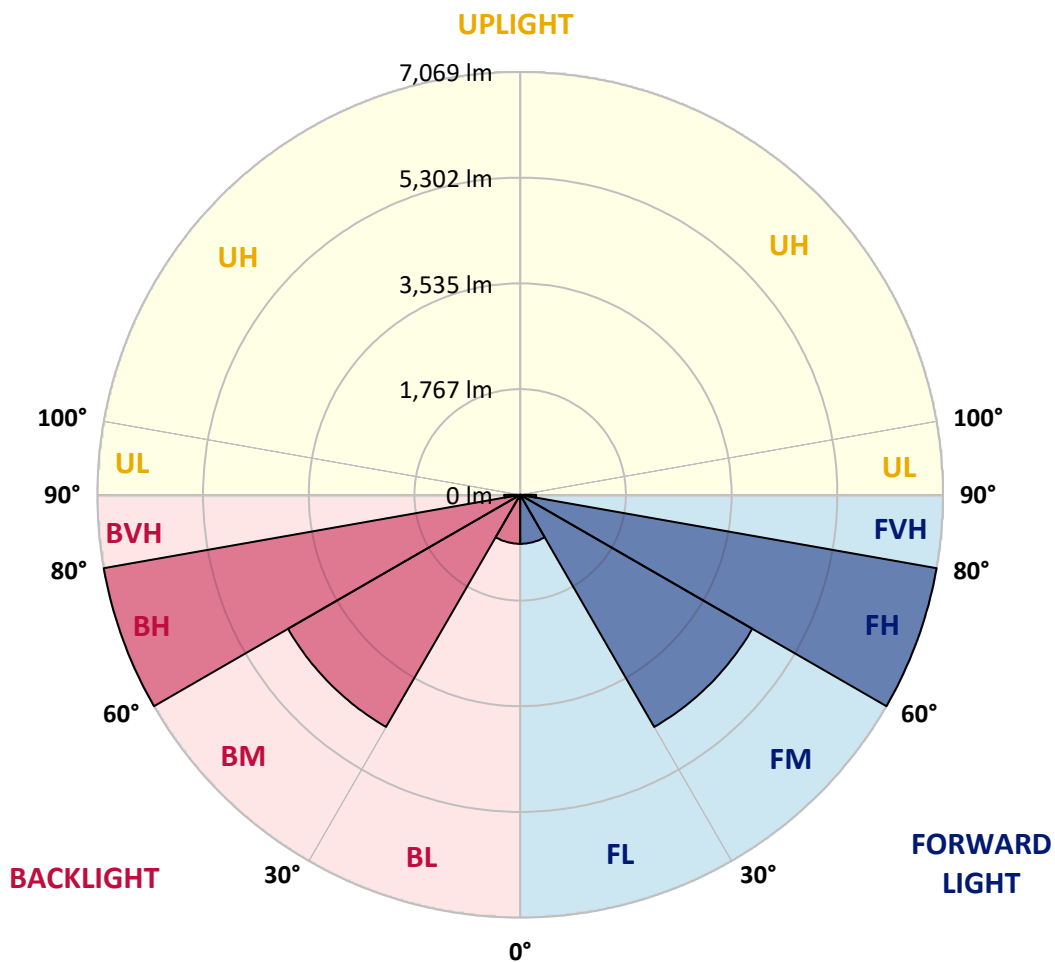
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	819.2	3.2			
FM	(30°-60°)	4481.4	17.7			
FH	(60°-80°)	7069.5	28.0			G3/7500
FVH	(80°-90°)	266.9	1.1			G3/500
BL	(0°-30°)	819.2	3.2	B2/1000		
BM	(30°-60°)	4481.4	17.7	B3/5000		
BH	(60°-80°)	7069.5	28.0	B5		G3/7500
BVH	(80°-90°)	266.9	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°	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8
2.5°	1789.8	1791.0	1792.1	1791.0	1791.0	1789.8	1788.6	1789.8	1788.6	1786.3	1787.5
5°	1795.6	1797.9	1797.9	1795.6	1796.7	1795.6	1793.2	1794.5	1792.1	1788.6	1788.6
7.5°	1802.5	1803.7	1803.7	1801.4	1802.5	1800.2	1797.9	1796.7	1794.5	1789.8	1786.3
10°	1813.0	1814.1	1813.0	1810.6	1810.6	1807.1	1801.4	1799.1	1794.5	1787.5	1784.0
12.5°	1824.5	1825.8	1824.5	1822.3	1821.1	1815.3	1810.6	1807.1	1803.7	1797.9	1792.1
15°	1840.8	1843.2	1840.8	1836.2	1832.7	1828.0	1825.8	1826.9	1828.0	1823.4	1817.6
17.5°	1871.0	1872.1	1868.6	1858.2	1853.6	1848.9	1848.9	1851.2	1854.7	1852.4	1846.6
20°	1926.6	1923.1	1915.0	1902.3	1896.4	1888.4	1887.1	1888.4	1888.4	1887.1	1882.5
22.5°	1996.1	1993.8	1983.4	1967.1	1959.1	1954.4	1947.5	1941.7	1940.5	1937.1	1932.4
25°	2079.6	2078.4	2065.6	2051.7	2046.0	2040.2	2034.3	2026.3	2019.3	2011.2	2006.5
27.5°	2186.3	2181.6	2163.0	2156.1	2148.0	2144.5	2136.4	2127.1	2121.3	2110.9	2105.1
30°	2303.3	2303.3	2288.2	2285.9	2285.9	2277.8	2268.5	2252.3	2241.9	2231.5	2228.0
32.5°	2420.4	2421.5	2406.5	2411.1	2414.6	2420.4	2422.8	2416.9	2410.0	2408.8	2401.9
35°	2589.6	2585.0	2570.0	2573.4	2572.2	2571.1	2571.1	2583.9	2586.1	2588.5	2574.6
37.5°	2799.4	2799.4	2784.4	2784.4	2777.4	2770.5	2761.1	2769.3	2782.0	2785.5	2776.3
40°	3039.4	3047.5	3029.0	3027.8	3030.1	3008.1	2997.7	3010.4	3018.5	3032.4	3022.0
42.5°	3322.2	3316.4	3297.9	3295.5	3282.9	3275.9	3266.6	3277.0	3289.8	3299.0	3302.5
45°	3593.5	3588.8	3568.0	3568.0	3555.3	3549.4	3554.0	3571.4	3577.3	3590.0	3602.7
47.5°	3861.2	3855.5	3841.6	3847.3	3848.5	3859.0	3874.0	3890.3	3906.4	3923.8	3929.7
50°	4134.9	4136.0	4121.0	4134.9	4152.3	4181.2	4221.8	4248.4	4282.1	4304.1	4311.0
52.5°	4384.1	4388.7	4404.9	4437.4	4472.1	4529.0	4598.5	4663.4	4719.1	4756.2	4753.9
55°	4683.2	4690.1	4729.5	4785.2	4841.9	4927.8	5030.9	5145.6	5238.4	5291.7	5258.1
57.5°	5065.7	5080.8	5124.8	5200.2	5284.8	5396.1	5537.4	5710.2	5853.9	5925.7	5871.3
60°	5590.8	5600.0	5653.3	5736.8	5838.9	5976.8	6165.7	6397.6	6600.5	6695.5	6632.9
62.5°	6282.9	6300.3	6343.1	6427.7	6532.1	6688.6	6919.2	7209.0	7461.7	7593.9	7452.5
65°	7109.3	7165.0	7201.0	7286.7	7384.1	7549.8	7790.9	8101.6	8372.9	8459.8	8296.3
67.5°	7927.8	7976.5	8039.0	8137.6	8236.1	8422.7	8646.4	8947.9	9245.7	9324.5	9070.7
70°	8285.9	8313.7	8411.1	8545.5	8734.6	8954.8	9213.3	9551.8	9920.4	9985.3	9663.0
72.5°	7568.4	7596.2	7705.2	7933.5	8262.8	8612.8	9063.8	9561.0	10047.9	10120.9	9676.9
75°	5724.1	5678.9	5840.0	6142.6	6586.6	7074.5	7705.2	8418.1	9121.7	9213.3	8683.5
77.5°	2958.3	2952.4	3074.2	3449.8	3979.5	4534.7	5229.1	6034.8	6723.3	7001.5	6570.3
80°	833.5	842.7	900.7	1087.3	1396.8	1797.9	2340.4	3095.0	3658.4	3945.9	3704.8
82.5°	326.9	352.4	374.4	409.2	449.8	508.9	679.2	1010.8	1356.2	1620.6	1327.3
85°	117.1	125.2	177.4	209.8	213.3	224.8	256.1	299.1	360.5	430.0	353.5
87.5°	44.1	48.7	56.8	93.9	92.8	84.6	103.2	107.8	81.1	74.2	91.6
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°	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8	1789.8
2.5°	1785.2	1786.3	1786.3	1787.5	1788.6	1788.6	1791.0	1791.0
5°	1786.3	1786.3	1784.0	1785.2	1784.0	1784.0	1785.2	1785.2
7.5°	1784.0	1782.8	1780.5	1779.3	1777.1	1777.1	1777.1	1777.1
10°	1780.5	1779.3	1777.1	1775.8	1774.7	1774.7	1774.7	1774.7
12.5°	1789.8	1786.3	1784.0	1782.8	1782.8	1782.8	1782.8	1782.8
15°	1814.1	1806.0	1800.2	1800.2	1801.4	1803.7	1803.7	1806.0
17.5°	1844.3	1835.0	1829.2	1824.5	1826.9	1830.4	1832.7	1835.0
20°	1880.2	1875.6	1867.5	1862.8	1862.8	1867.5	1869.7	1871.0
22.5°	1930.1	1926.6	1923.1	1917.3	1917.3	1919.7	1924.3	1924.3
25°	2004.3	2001.9	1999.6	1995.0	1993.8	1993.8	1996.1	1998.4
27.5°	2096.9	2098.2	2095.8	2094.7	2091.2	2090.0	2093.5	2092.3
30°	2221.0	2226.9	2232.6	2228.0	2222.2	2218.7	2215.2	2210.6
32.5°	2389.1	2382.1	2377.5	2369.4	2358.9	2349.7	2342.8	2334.6
35°	2547.9	2536.3	2531.7	2538.7	2537.4	2531.7	2523.5	2516.6
37.5°	2742.6	2740.4	2742.6	2755.4	2753.1	2758.9	2742.6	2741.5
40°	2988.4	2990.7	3007.0	3022.0	3030.1	3038.3	3029.0	3019.6
42.5°	3273.5	3272.4	3278.3	3299.0	3312.9	3322.2	3302.5	3300.2
45°	3574.9	3566.8	3571.4	3588.8	3602.7	3613.2	3591.2	3591.2
47.5°	3906.4	3892.5	3877.5	3897.2	3905.3	3912.3	3894.9	3889.1
50°	4276.2	4247.3	4214.9	4222.9	4222.9	4220.6	4198.6	4197.5
52.5°	4700.6	4647.2	4588.1	4566.0	4553.4	4539.4	4501.2	4482.6
55°	5188.5	5108.6	5015.8	4959.1	4928.9	4890.6	4826.9	4809.5
57.5°	5758.9	5633.7	5473.7	5404.1	5336.9	5274.3	5203.6	5183.9
60°	6434.7	6250.3	6038.3	5909.6	5836.5	5776.3	5703.3	5699.8
62.5°	7188.2	6897.2	6657.3	6541.4	6488.0	6434.7	6365.1	6374.4
65°	7954.4	7650.6	7425.8	7331.9	7282.1	7238.0	7168.4	7178.9
67.5°	8710.2	8430.9	8183.9	8087.7	8032.0	7976.5	7913.9	7924.3
70°	9252.7	8906.1	8627.9	8414.6	8281.3	8130.6	8033.2	8008.9
72.5°	9097.3	8562.9	8121.3	7698.2	7450.2	7248.4	7111.7	7052.5
75°	7873.2	7143.0	6574.9	6055.7	5763.5	5525.9	5353.2	5245.4
77.5°	5847.0	5026.3	4355.1	3757.0	3284.0	2966.4	2742.6	2597.8
80°	3200.5	2434.3	1779.3	1250.8	919.2	763.9	674.6	631.8
82.5°	996.9	643.3	474.1	409.2	380.2	364.0	337.4	294.4
85°	317.6	278.2	258.5	246.9	235.3	205.2	141.4	128.7
87.5°	122.9	126.3	125.2	118.3	120.6	87.0	69.6	61.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)