

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: P193433

Luminaire Tested: **GLEON-AF-05-LED-E1-5WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193433
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-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 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: 25570 lumens
Efficiency: N/A
Efficacy: 91.6 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

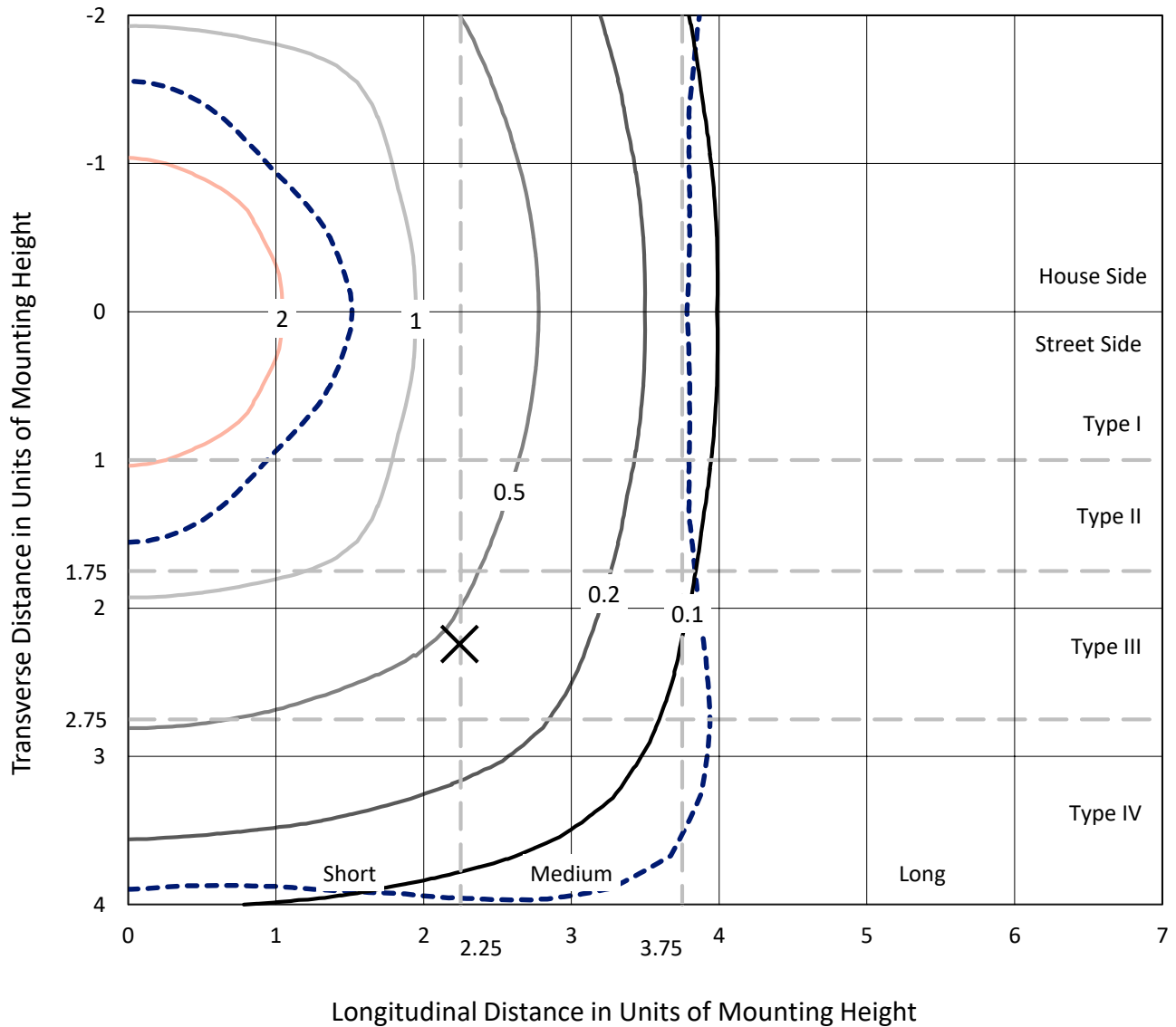
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

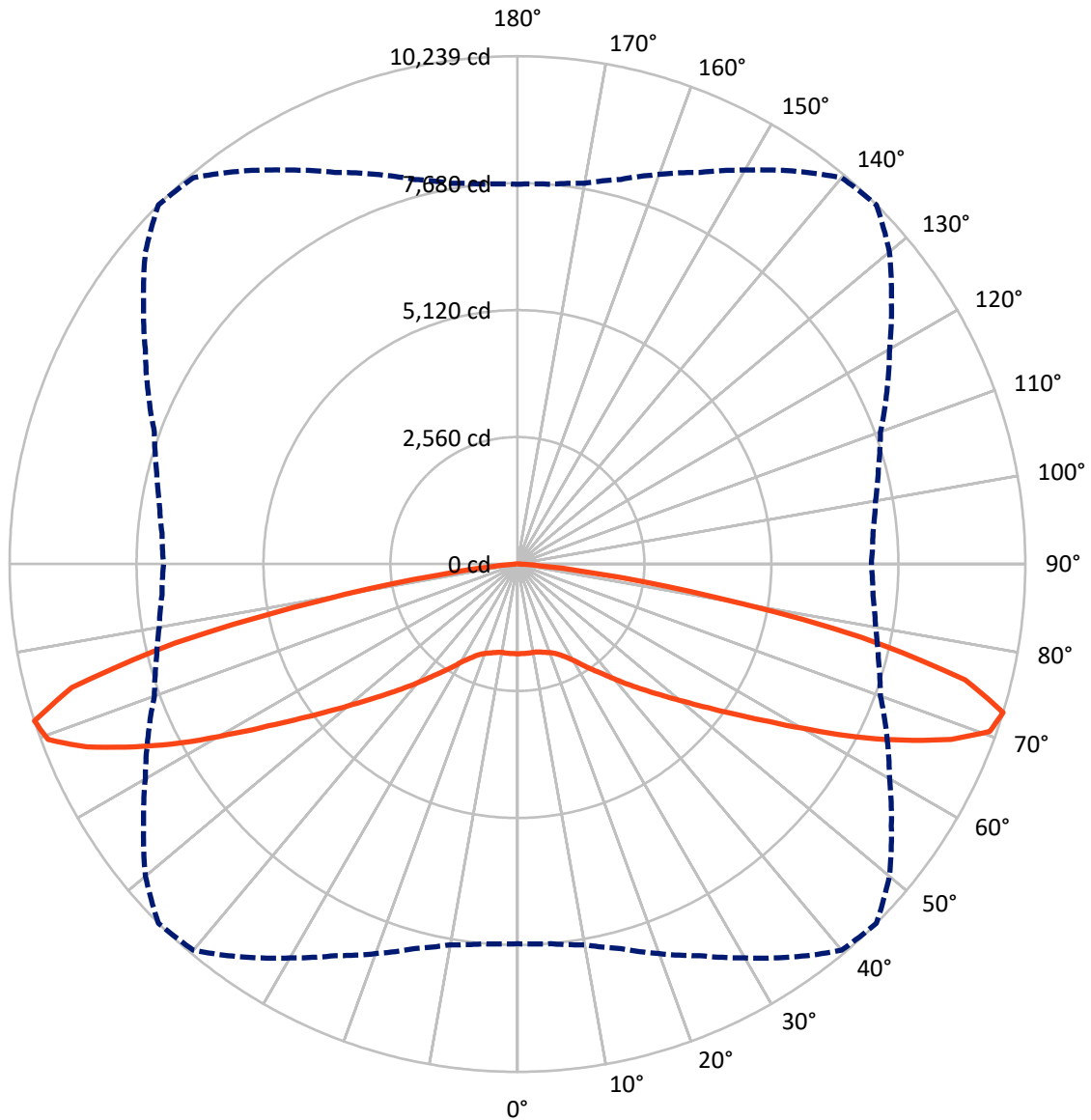
✕ Max cd
 - - - 1/2 Max cd



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	12785.0	0.0	12785.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12785.0	0.0	12785.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25570.0	0.0	25570.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.9	0.7
10°-20°	525.1	2.1
20°-30°	959.6	3.8
30°-40°	1654.6	6.5
40°-50°	2828.5	11.1
50°-60°	4584.6	17.9
60°-70°	7605.7	29.7
70°-80°	6698.8	26.2
80°-90°	540.1	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°	25570.0	100.0
0°-180°	25570.0	100.0



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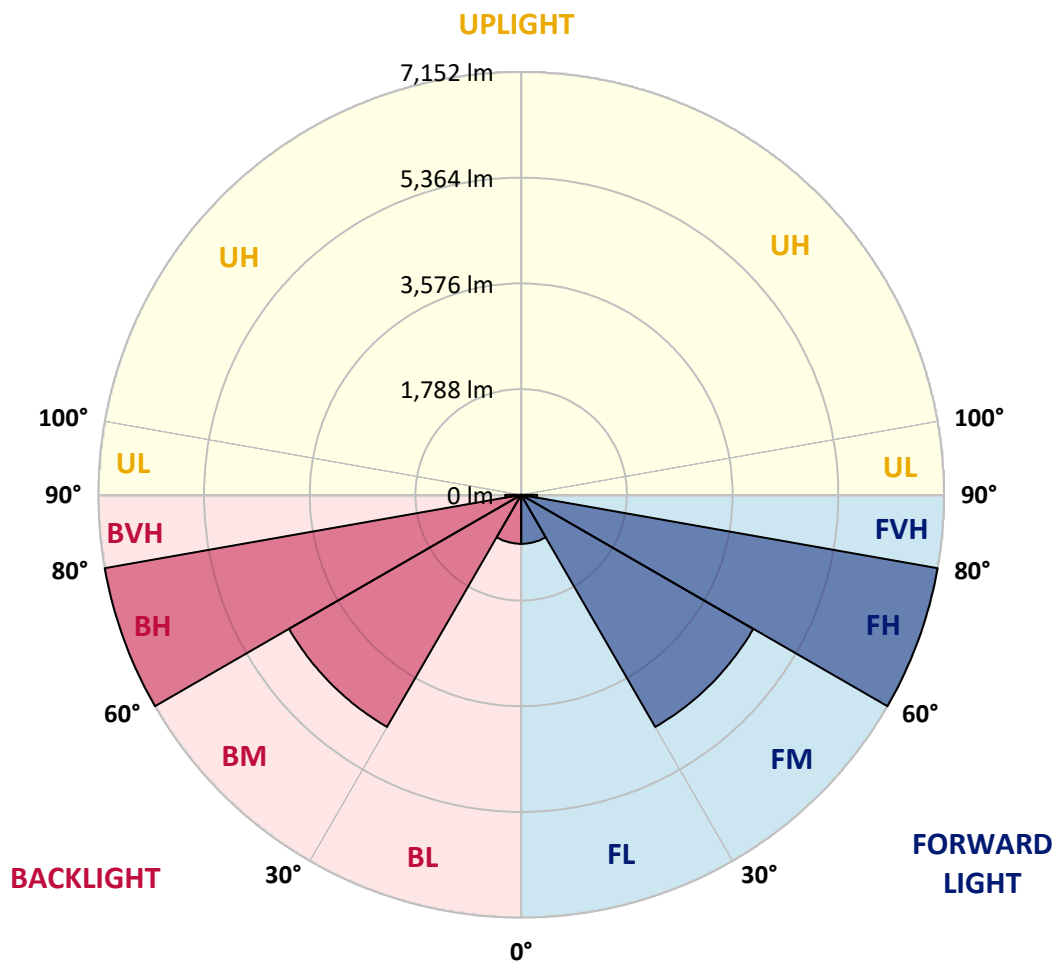
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	828.8	3.2			
FM	(30°-60°)	4533.8	17.7			
FH	(60°-80°)	7152.3	28.0			G3/7500
FVH	(80°-90°)	270.1	1.1			G3/500
BL	(0°-30°)	828.8	3.2	B2/1000		
BM	(30°-60°)	4533.8	17.7	B3/5000		
BH	(60°-80°)	7152.3	28.0	B5		G3/7500
BVH	(80°-90°)	270.1	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°	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8
2.5°	1810.8	1811.9	1813.1	1811.9	1811.9	1810.8	1809.6	1810.8	1809.6	1807.2	1808.4
5°	1816.6	1819.0	1819.0	1816.6	1817.8	1816.6	1814.3	1815.4	1813.1	1809.6	1809.6
7.5°	1823.7	1824.8	1824.8	1822.5	1823.7	1821.3	1819.0	1817.8	1815.4	1810.8	1807.2
10°	1834.2	1835.4	1834.2	1831.9	1831.9	1828.3	1822.5	1820.1	1815.4	1808.4	1804.9
12.5°	1845.9	1847.1	1845.9	1843.6	1842.4	1836.6	1831.9	1828.3	1824.8	1819.0	1813.1
15°	1862.4	1864.7	1862.4	1857.7	1854.1	1849.5	1847.1	1848.3	1849.5	1844.8	1838.9
17.5°	1892.8	1894.0	1890.5	1879.9	1875.3	1870.6	1870.6	1872.9	1876.4	1874.1	1868.2
20°	1949.1	1945.6	1937.4	1924.5	1918.6	1910.4	1909.3	1910.4	1910.4	1909.3	1904.6
22.5°	2019.5	2017.2	2006.6	1990.2	1982.0	1977.3	1970.2	1964.4	1963.2	1959.7	1955.0
25°	2103.9	2102.8	2089.9	2075.8	2069.9	2064.1	2058.2	2050.0	2043.0	2034.8	2030.1
27.5°	2211.8	2207.1	2188.4	2181.3	2173.1	2169.6	2161.4	2152.0	2146.2	2135.6	2129.7
30°	2330.3	2330.3	2315.0	2312.7	2312.7	2304.5	2295.1	2278.7	2268.1	2257.6	2254.1
32.5°	2448.7	2449.9	2434.7	2439.4	2442.9	2448.7	2451.1	2445.2	2438.2	2437.0	2430.0
35°	2620.0	2615.3	2600.0	2603.5	2602.4	2601.2	2601.2	2614.1	2616.4	2618.8	2604.7
37.5°	2832.2	2832.2	2817.0	2817.0	2810.0	2802.9	2793.5	2801.7	2814.6	2818.2	2808.8
40°	3075.0	3083.2	3064.4	3063.3	3065.6	3043.3	3032.8	3045.7	3053.9	3068.0	3057.4
42.5°	3361.2	3355.3	3336.5	3334.2	3321.3	3314.2	3304.9	3315.4	3328.3	3337.7	3341.2
45°	3635.6	3630.9	3609.8	3609.8	3596.9	3591.0	3595.7	3613.3	3619.2	3632.1	3645.0
47.5°	3906.5	3900.6	3886.6	3892.4	3893.6	3904.1	3919.4	3935.8	3952.2	3969.8	3975.7
50°	4183.3	4184.4	4169.2	4183.3	4200.9	4230.2	4271.2	4298.2	4332.2	4354.5	4361.5
52.5°	4435.4	4440.1	4456.5	4489.4	4524.5	4582.0	4652.4	4718.0	4774.3	4811.9	4809.5
55°	4738.0	4745.0	4784.9	4841.2	4898.7	4985.4	5089.8	5205.9	5299.7	5353.7	5319.7
57.5°	5125.0	5140.2	5184.8	5261.0	5346.6	5459.2	5602.3	5777.1	5922.5	5995.2	5940.1
60°	5656.3	5665.6	5719.6	5804.0	5907.2	6046.8	6238.0	6472.5	6677.7	6773.9	6710.6
62.5°	6356.4	6374.0	6417.4	6503.0	6608.5	6766.9	7000.2	7293.4	7549.1	7682.8	7539.7
65°	7192.6	7248.9	7285.2	7372.0	7470.5	7638.2	7882.2	8196.5	8470.9	8558.9	8393.5
67.5°	8020.6	8069.8	8133.1	8232.8	8332.5	8521.3	8747.7	9052.6	9354.0	9433.7	9176.9
70°	8382.9	8411.1	8509.6	8645.6	8836.8	9059.6	9321.2	9663.6	10036.5	10102.2	9776.2
72.5°	7657.0	7685.1	7795.4	8026.4	8359.5	8713.7	9169.9	9673.0	10165.5	10239.4	9790.3
75°	5791.1	5745.4	5908.4	6214.5	6663.7	7157.4	7795.4	8516.6	9228.5	9321.2	8785.2
77.5°	2992.9	2987.0	3110.2	3490.2	4026.1	4587.9	5290.4	6105.4	6802.1	7083.5	6647.2
80°	843.2	852.6	911.2	1100.1	1413.2	1819.0	2367.8	3131.3	3701.3	3992.1	3748.2
82.5°	330.7	356.5	378.8	414.0	455.0	514.8	687.2	1022.7	1372.1	1639.5	1342.8
85°	118.4	126.7	179.4	212.3	215.8	227.5	259.2	302.6	364.7	435.1	357.7
87.5°	44.6	49.3	57.5	95.0	93.8	85.6	104.4	109.1	82.1	75.1	92.6
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°	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8
2.5°	1806.1	1807.2	1807.2	1808.4	1809.6	1809.6	1811.9	1811.9
5°	1807.2	1807.2	1804.9	1806.1	1804.9	1804.9	1806.1	1806.1
7.5°	1804.9	1803.7	1801.4	1800.2	1797.9	1797.9	1797.9	1797.9
10°	1801.4	1800.2	1797.9	1796.7	1795.5	1795.5	1795.5	1795.5
12.5°	1810.8	1807.2	1804.9	1803.7	1803.7	1803.7	1803.7	1803.7
15°	1835.4	1827.2	1821.3	1821.3	1822.5	1824.8	1824.8	1827.2
17.5°	1865.9	1856.5	1850.6	1845.9	1848.3	1851.8	1854.1	1856.5
20°	1902.2	1897.5	1889.3	1884.6	1884.6	1889.3	1891.7	1892.8
22.5°	1952.7	1949.1	1945.6	1939.8	1939.8	1942.1	1946.8	1946.8
25°	2027.7	2025.4	2023.0	2018.3	2017.2	2017.2	2019.5	2021.9
27.5°	2121.5	2122.7	2120.4	2119.2	2115.7	2114.5	2118.0	2116.8
30°	2247.0	2252.9	2258.8	2254.1	2248.2	2244.7	2241.2	2236.5
32.5°	2417.1	2410.0	2405.3	2397.1	2386.6	2377.2	2370.2	2362.0
35°	2577.7	2566.0	2561.3	2568.4	2567.2	2561.3	2553.1	2546.1
37.5°	2774.8	2772.4	2774.8	2787.7	2785.3	2791.2	2774.8	2773.6
40°	3023.4	3025.7	3042.2	3057.4	3065.6	3073.8	3064.4	3055.1
42.5°	3311.9	3310.7	3316.6	3337.7	3351.8	3361.2	3341.2	3338.9
45°	3616.8	3608.6	3613.3	3630.9	3645.0	3655.5	3633.2	3633.2
47.5°	3952.2	3938.2	3922.9	3942.8	3951.1	3958.1	3940.5	3934.6
50°	4326.3	4297.0	4264.2	4272.4	4272.4	4270.0	4247.8	4246.6
52.5°	4755.6	4701.6	4641.8	4619.5	4606.6	4592.6	4553.9	4535.1
55°	5249.3	5168.4	5074.6	5017.1	4986.6	4947.9	4883.4	4865.8
57.5°	5826.3	5699.7	5537.8	5467.4	5399.4	5336.1	5264.6	5244.6
60°	6510.0	6323.6	6108.9	5978.8	5904.9	5843.9	5770.0	5766.5
62.5°	7272.3	6978.0	6735.2	6617.9	6564.0	6510.0	6439.7	6449.0
65°	8047.5	7740.3	7512.7	7417.8	7367.3	7322.8	7252.4	7262.9
67.5°	8812.2	8529.5	8279.7	8182.4	8126.1	8069.8	8006.5	8017.0
70°	9361.0	9010.4	8728.9	8513.1	8378.3	8225.8	8127.3	8102.7
72.5°	9203.9	8663.2	8216.4	7788.3	7537.4	7333.3	7194.9	7135.1
75°	7965.4	7226.6	6651.9	6126.5	5831.0	5590.6	5415.8	5306.8
77.5°	5915.4	5085.1	4406.1	3800.9	3322.5	3001.1	2774.8	2628.2
80°	3238.0	2462.8	1800.2	1265.4	930.0	772.9	682.6	639.2
82.5°	1008.6	650.9	479.7	414.0	384.7	368.2	341.3	297.9
85°	321.3	281.5	261.5	249.8	238.1	207.6	143.1	130.2
87.5°	124.3	127.8	126.7	119.6	122.0	88.0	70.4	62.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)