

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: P191683

Luminaire Tested: **GLEON-AF-05-LED-E1-5WQ-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191683
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-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 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: 25318 lumens
Efficiency: N/A
Efficacy: 120.6 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): 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

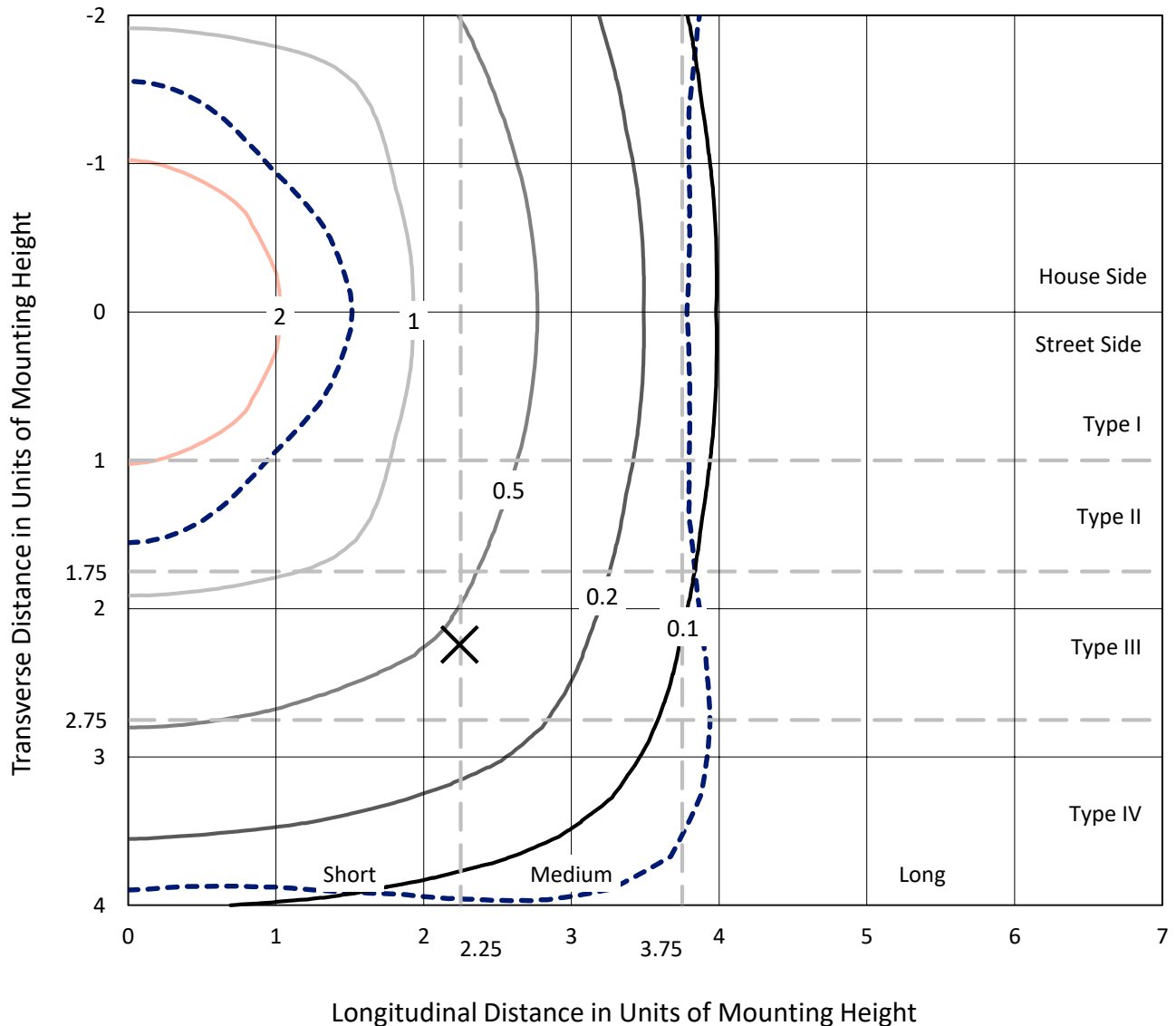


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

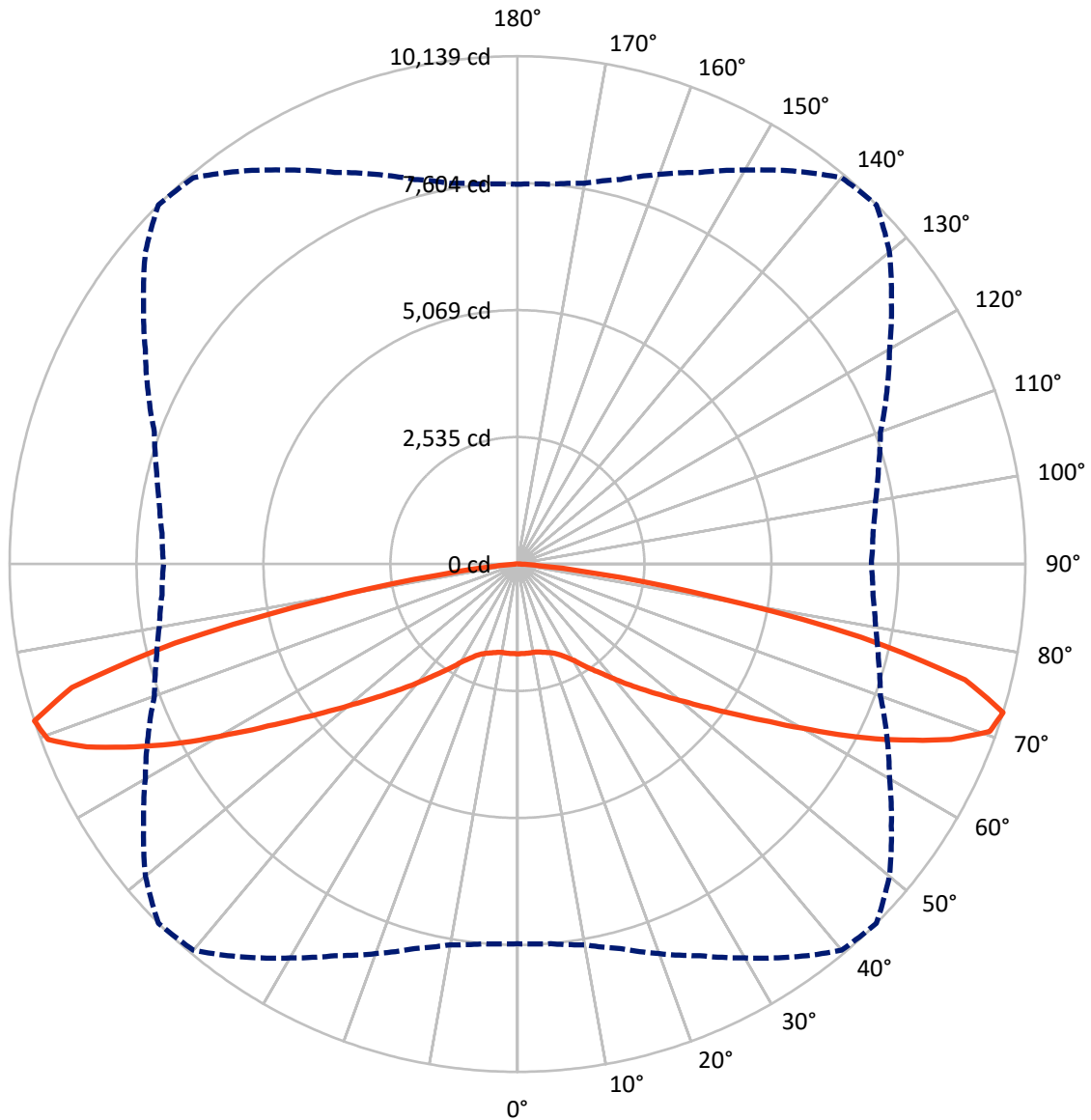


Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Semi-Cutoff

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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	12659.0	0.0	12659.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12659.0	0.0	12659.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25318.0	0.0	25318.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.2	0.7
10°-20°	520.0	2.1
20°-30°	950.2	3.8
30°-40°	1638.3	6.5
40°-50°	2800.6	11.1
50°-60°	4539.4	17.9
60°-70°	7530.7	29.7
70°-80°	6632.8	26.2
80°-90°	534.8	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°	25318.0	100.0
0°-180°	25318.0	100.0



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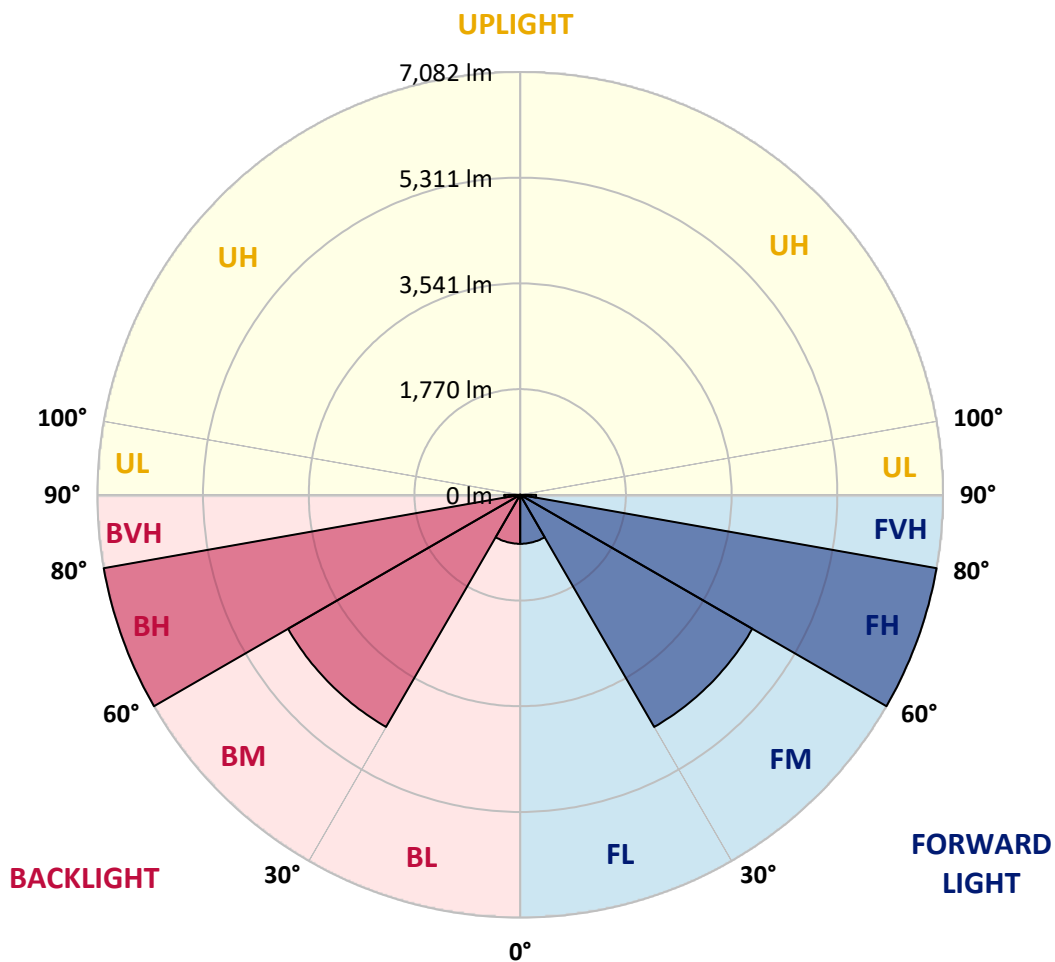
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	820.7	3.2			
FM	(30°-60°)	4489.2	17.7			
FH	(60°-80°)	7081.8	28.0			G3/7500
FVH	(80°-90°)	267.4	1.1			G3/500
BL	(0°-30°)	820.7	3.2	B2/1000		
BM	(30°-60°)	4489.2	17.7	B3/5000		
BH	(60°-80°)	7081.8	28.0	B5		G3/7500
BVH	(80°-90°)	267.4	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°	1792.9	1792.9	1792.9	1792.9	1792.9	1792.9	1792.9	1792.9	1792.9	1792.9	1792.9
2.5°	1792.9	1794.1	1795.2	1794.1	1794.1	1792.9	1791.7	1792.9	1791.7	1789.4	1790.6
5°	1798.7	1801.0	1801.0	1798.7	1799.9	1798.7	1796.4	1797.6	1795.2	1791.7	1791.7
7.5°	1805.7	1806.8	1806.8	1804.5	1805.7	1803.4	1801.0	1799.9	1797.6	1792.9	1789.4
10°	1816.1	1817.3	1816.1	1813.8	1813.8	1810.3	1804.5	1802.2	1797.6	1790.6	1787.1
12.5°	1827.7	1828.9	1827.7	1825.4	1824.3	1818.5	1813.8	1810.3	1806.8	1801.0	1795.2
15°	1844.0	1846.3	1844.0	1839.4	1835.9	1831.2	1828.9	1830.1	1831.2	1826.6	1820.8
17.5°	1874.2	1875.4	1871.9	1861.4	1856.8	1852.1	1852.1	1854.5	1857.9	1855.6	1849.8
20°	1929.9	1926.4	1918.3	1905.5	1899.7	1891.6	1890.4	1891.6	1891.6	1890.4	1885.8
22.5°	1999.6	1997.3	1986.8	1970.6	1962.4	1957.8	1950.8	1945.0	1943.9	1940.4	1935.7
25°	2083.2	2082.0	2069.3	2055.3	2049.5	2043.7	2037.9	2029.8	2022.8	2014.7	2010.1
27.5°	2190.0	2185.4	2166.8	2159.8	2151.7	2148.2	2140.1	2130.8	2125.0	2114.6	2108.8
30°	2307.3	2307.3	2292.2	2289.9	2289.9	2281.8	2272.5	2256.2	2245.8	2235.3	2231.8
32.5°	2424.6	2425.8	2410.7	2415.3	2418.8	2424.6	2426.9	2421.1	2414.2	2413.0	2406.0
35°	2594.1	2589.5	2574.4	2577.9	2576.7	2575.6	2575.6	2588.3	2590.7	2593.0	2579.0
37.5°	2804.3	2804.3	2789.2	2789.2	2782.3	2775.3	2766.0	2774.1	2786.9	2790.4	2781.1
40°	3044.7	3052.8	3034.2	3033.1	3035.4	3013.3	3002.9	3015.7	3023.8	3037.7	3027.3
42.5°	3328.0	3322.2	3303.6	3301.3	3288.5	3281.6	3272.3	3282.7	3295.5	3304.8	3308.3
45°	3599.7	3595.1	3574.2	3574.2	3561.4	3555.6	3560.3	3577.7	3583.5	3596.3	3609.0
47.5°	3868.0	3862.2	3848.2	3854.1	3855.2	3865.7	3880.8	3897.0	3913.3	3930.7	3936.5
50°	4142.0	4143.2	4128.1	4142.0	4159.5	4188.5	4229.1	4255.8	4289.5	4311.6	4318.5
52.5°	4391.7	4396.3	4412.6	4445.1	4479.9	4536.8	4606.5	4671.5	4727.3	4764.4	4762.1
55°	4691.3	4698.3	4737.7	4793.5	4850.4	4936.3	5039.6	5154.6	5247.5	5300.9	5267.2
57.5°	5074.5	5089.6	5133.7	5209.2	5294.0	5405.4	5547.1	5720.1	5864.1	5936.1	5881.5
60°	5600.5	5609.8	5663.2	5746.8	5849.0	5987.2	6176.5	6408.7	6611.9	6707.1	6644.4
62.5°	6293.8	6311.2	6354.1	6438.9	6543.4	6700.2	6931.3	7221.6	7474.7	7607.1	7465.4
65°	7121.7	7177.4	7213.4	7299.4	7396.9	7563.0	7804.5	8115.7	8387.4	8474.5	8310.8
67.5°	7941.5	7990.3	8053.0	8151.7	8250.4	8437.3	8661.5	8963.4	9261.8	9340.8	9086.5
70°	8300.3	8328.2	8425.7	8560.4	8749.7	8970.3	9229.3	9568.4	9937.6	10002.7	9679.8
72.5°	7581.5	7609.4	7718.6	7947.3	8277.1	8627.8	9079.5	9577.7	10065.4	10138.5	9693.8
75°	5734.1	5688.8	5850.2	6153.2	6598.0	7086.9	7718.6	8432.7	9137.6	9229.3	8698.6
77.5°	2963.4	2957.6	3079.5	3455.8	3986.4	4542.7	5238.2	6045.3	6735.0	7013.7	6581.7
80°	834.9	844.2	902.3	1089.2	1399.3	1801.0	2344.5	3100.4	3664.8	3952.8	3711.2
82.5°	327.5	353.0	375.1	409.9	450.5	509.8	680.5	1012.6	1358.6	1623.4	1329.6
85°	117.3	125.4	177.7	210.2	213.7	225.3	256.6	299.6	361.1	430.8	354.2
87.5°	44.1	48.8	56.9	94.1	92.9	84.8	103.3	108.0	81.3	74.3	91.7
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°	1792.9	1792.9	1792.9	1792.9	1792.9	1792.9	1792.9	1792.9
2.5°	1788.3	1789.4	1789.4	1790.6	1791.7	1791.7	1794.1	1794.1
5°	1789.4	1789.4	1787.1	1788.3	1787.1	1787.1	1788.3	1788.3
7.5°	1787.1	1785.9	1783.6	1782.5	1780.1	1780.1	1780.1	1780.1
10°	1783.6	1782.5	1780.1	1779.0	1777.8	1777.8	1777.8	1777.8
12.5°	1792.9	1789.4	1787.1	1785.9	1785.9	1785.9	1785.9	1785.9
15°	1817.3	1809.2	1803.4	1803.4	1804.5	1806.8	1806.8	1809.2
17.5°	1847.5	1838.2	1832.4	1827.7	1830.1	1833.6	1835.9	1838.2
20°	1883.5	1878.8	1870.7	1866.1	1866.1	1870.7	1873.0	1874.2
22.5°	1933.4	1929.9	1926.4	1920.6	1920.6	1923.0	1927.6	1927.6
25°	2007.7	2005.4	2003.1	1998.4	1997.3	1997.3	1999.6	2001.9
27.5°	2100.6	2101.8	2099.5	2098.3	2094.8	2093.7	2097.1	2096.0
30°	2224.9	2230.7	2236.5	2231.8	2226.0	2222.6	2219.1	2214.4
32.5°	2393.3	2386.3	2381.6	2373.5	2363.1	2353.8	2346.8	2338.7
35°	2552.3	2540.7	2536.1	2543.0	2541.9	2536.1	2528.0	2521.0
37.5°	2747.4	2745.1	2747.4	2760.2	2757.9	2763.7	2747.4	2746.3
40°	2993.6	2995.9	3012.2	3027.3	3035.4	3043.5	3034.2	3025.0
42.5°	3279.3	3278.1	3283.9	3304.8	3318.7	3328.0	3308.3	3306.0
45°	3581.2	3573.0	3577.7	3595.1	3609.0	3619.5	3597.4	3597.4
47.5°	3913.3	3899.3	3884.2	3904.0	3912.1	3919.1	3901.7	3895.9
50°	4283.7	4254.7	4222.2	4230.3	4230.3	4228.0	4205.9	4204.7
52.5°	4708.7	4655.3	4596.1	4574.0	4561.2	4547.3	4509.0	4490.4
55°	5197.6	5117.5	5024.6	4967.7	4937.5	4899.1	4835.3	4817.9
57.5°	5768.9	5643.5	5483.2	5413.6	5346.2	5283.5	5212.7	5192.9
60°	6445.9	6261.2	6048.7	5919.8	5846.7	5786.3	5713.2	5709.7
62.5°	7200.7	6909.2	6668.8	6552.7	6499.3	6445.9	6376.2	6385.5
65°	7968.2	7664.0	7438.7	7344.7	7294.7	7250.6	7180.9	7191.4
67.5°	8725.3	8445.5	8198.1	8101.8	8046.0	7990.3	7927.6	7938.0
70°	9268.8	8921.6	8642.9	8429.2	8295.7	8144.7	8047.2	8022.8
72.5°	9113.2	8577.9	8135.4	7711.6	7463.1	7261.0	7124.0	7064.8
75°	7886.9	7155.4	6586.4	6066.2	5773.5	5535.5	5362.5	5254.5
77.5°	5857.1	5035.0	4362.7	3763.5	3289.7	2971.5	2747.4	2602.3
80°	3206.1	2438.5	1782.5	1252.9	920.8	765.2	675.8	632.9
82.5°	998.6	644.5	474.9	409.9	380.9	364.6	337.9	294.9
85°	318.2	278.7	258.9	247.3	235.7	205.5	141.7	128.9
87.5°	123.1	126.6	125.4	118.4	120.8	87.1	69.7	61.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)