

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: P191792

Luminaire Tested: **GLEON-AF-04-LED-E1-RW-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191792
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
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-RW-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16171 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

Input Watts (W): 129
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

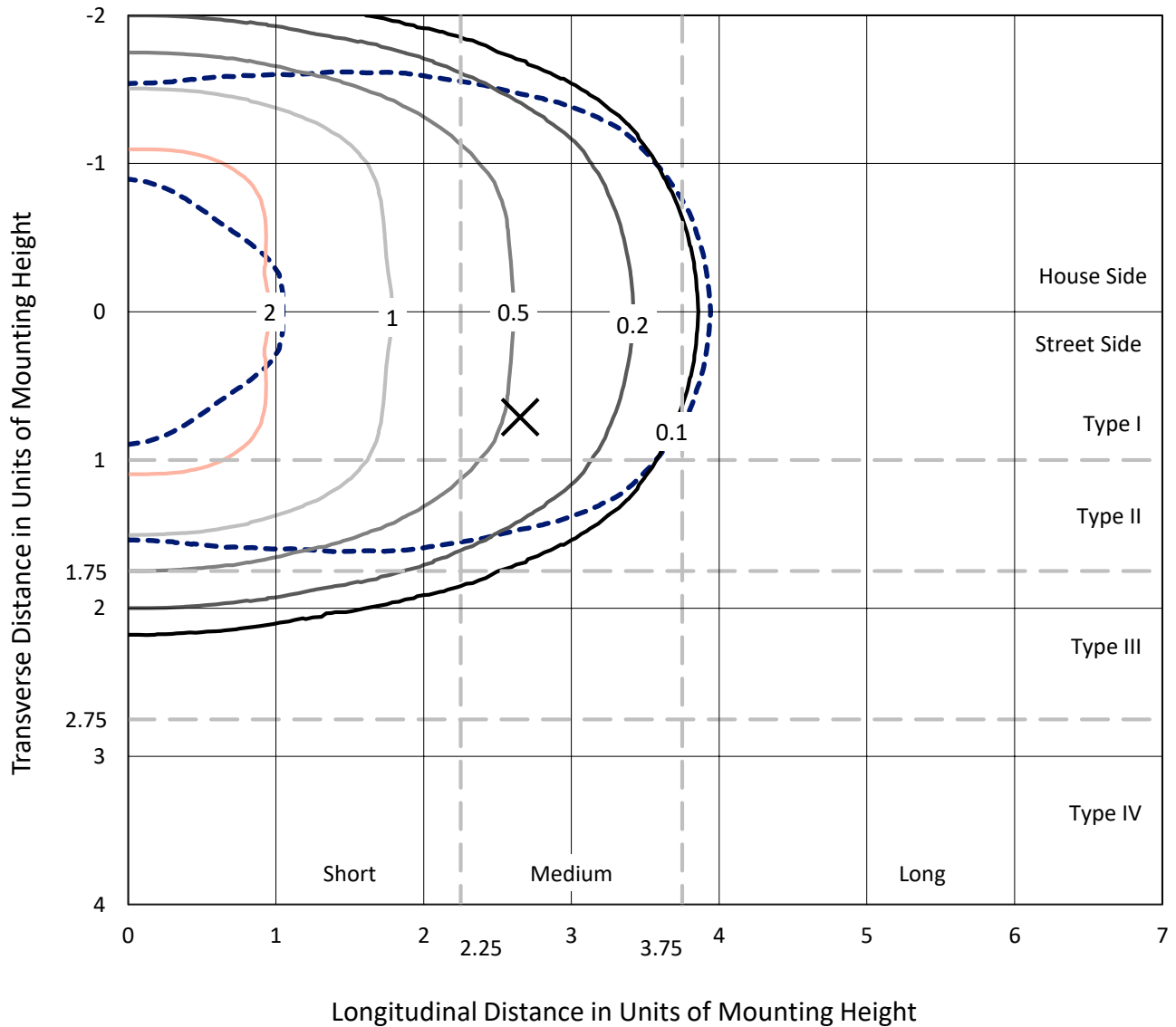


REPORT NUMBER: P191792

CATALOG NUMBER: GLEON-AF-04-LED-E1-RW-7050-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

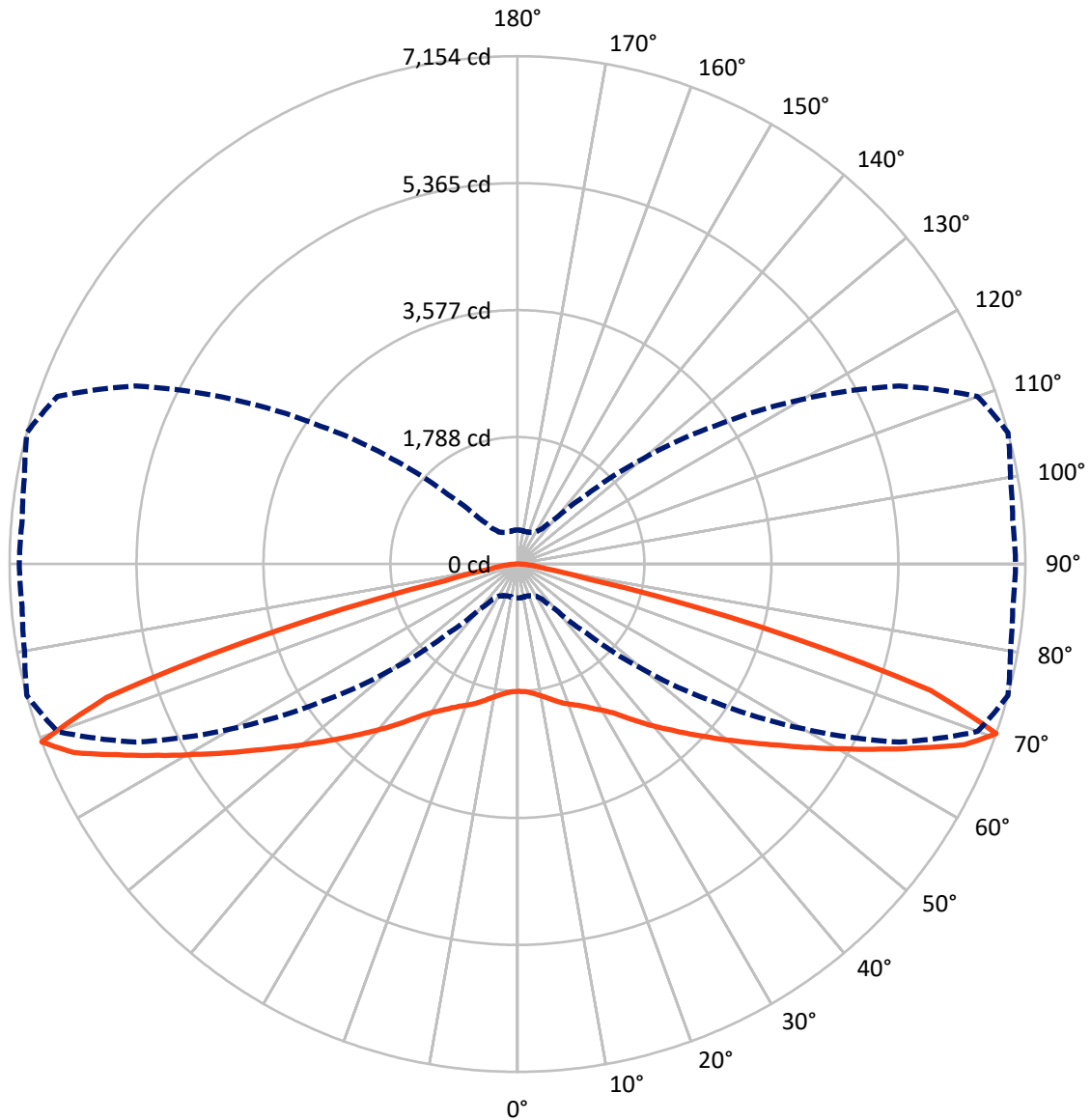


Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P191792

CATALOG NUMBER: GLEON-AF-04-LED-E1-RW-7050-600

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P191792

CATALOG NUMBER: GLEON-AF-04-LED-E1-RW-7050-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8085.5	0.0	8085.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8085.5	0.0	8085.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16171.0	0.0	16171.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.0	1.1
10°-20°	534.5	3.3
20°-30°	1006.1	6.2
30°-40°	1781.6	11.0
40°-50°	2979.3	18.4
50°-60°	4151.7	25.7
60°-70°	3850.1	23.8
70°-80°	1534.4	9.5
80°-90°	161.3	1.0
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°	16171.0	100.0
0°-180°	16171.0	100.0



REPORT NUMBER: P191792

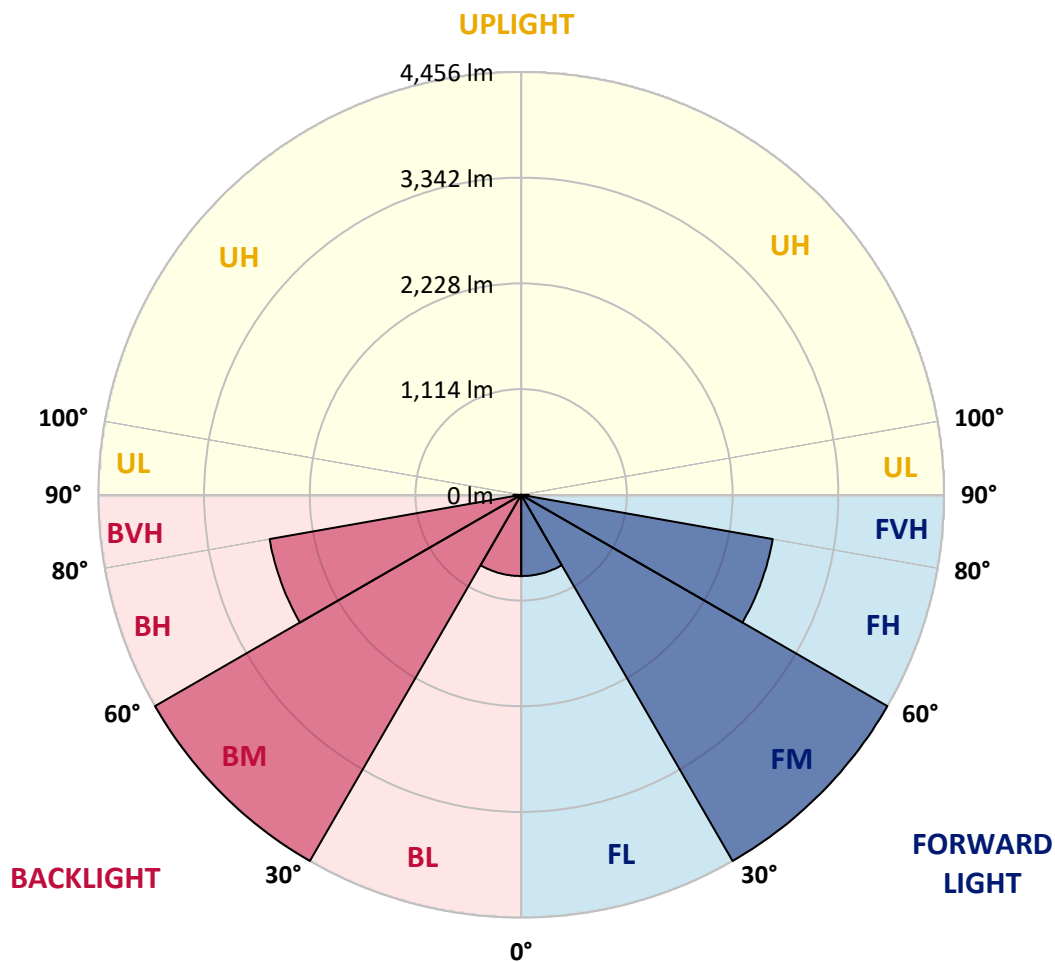
CATALOG NUMBER: GLEON-AF-04-LED-E1-RW-7050-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	856.3	5.3			
FM	(30°-60°)	4456.3	27.6			
FH	(60°-80°)	2692.2	16.6			G2/5000
FVH	(80°-90°)	80.6	0.5			G1/100
BL	(0°-30°)	856.3	5.3	B2/1000		
BM	(30°-60°)	4456.3	27.6	B3/5000		
BH	(60°-80°)	2692.2	16.6	B4/5000		G4/5000
BVH	(80°-90°)	80.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium





REPORT NUMBER: P191792

CATALOG NUMBER: GLEON-AF-04-LED-E1-RW-7050-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1793.7	1793.7	1793.7	1793.7	1793.7	1793.7	1793.7	1793.7	1793.7	1793.7	1793.7
2.5°	1790.7	1789.2	1790.7	1789.9	1791.4	1791.4	1793.0	1796.0	1796.0	1798.3	1797.6
5°	1773.1	1772.3	1774.6	1776.9	1779.2	1783.8	1788.4	1795.3	1800.6	1804.4	1808.3
7.5°	1738.7	1738.7	1741.8	1747.1	1752.5	1762.4	1773.1	1786.9	1800.6	1812.1	1822.0
10°	1710.4	1712.0	1715.8	1725.0	1734.1	1749.4	1763.9	1783.8	1802.9	1822.0	1837.3
12.5°	1693.6	1695.9	1702.8	1716.5	1731.8	1752.5	1774.6	1799.9	1821.3	1844.2	1859.5
15°	1699.0	1700.5	1710.4	1727.2	1747.1	1773.1	1802.9	1832.7	1857.9	1882.4	1903.0
17.5°	1728.8	1731.1	1742.5	1761.6	1782.3	1812.8	1844.9	1878.6	1909.9	1937.4	1962.6
20°	1782.3	1784.6	1799.1	1819.7	1844.2	1875.5	1907.6	1942.8	1977.9	2007.0	2035.2
22.5°	1857.9	1861.8	1875.5	1896.2	1923.7	1957.3	1995.5	2033.0	2066.6	2093.3	2118.6
25°	1957.3	1965.7	1978.7	2001.6	2030.7	2061.2	2102.5	2140.7	2172.8	2198.0	2216.4
27.5°	2097.9	2109.4	2119.3	2141.5	2169.8	2198.8	2240.1	2273.7	2304.3	2328.7	2342.5
30°	2284.4	2295.9	2305.8	2327.2	2353.2	2380.7	2419.7	2449.5	2468.6	2487.7	2486.9
32.5°	2510.6	2522.9	2526.7	2549.6	2576.4	2606.2	2641.3	2658.1	2673.4	2675.7	2662.0
35°	2763.6	2769.7	2785.0	2815.6	2846.1	2870.6	2904.2	2912.6	2912.6	2901.2	2870.6
37.5°	3041.0	3044.9	3066.2	3100.6	3132.0	3157.2	3180.1	3196.9	3188.5	3164.1	3112.9
40°	3345.2	3352.1	3382.7	3413.2	3448.4	3472.1	3496.5	3499.6	3491.2	3455.3	3385.7
42.5°	3635.6	3641.7	3672.3	3720.5	3766.3	3799.2	3822.1	3826.7	3799.9	3767.1	3680.7
45°	3885.5	3901.6	3941.3	3997.9	4064.4	4111.0	4142.3	4155.3	4131.6	4088.8	3988.7
47.5°	4083.5	4099.5	4156.1	4223.4	4305.9	4381.6	4433.5	4461.0	4454.9	4422.8	4313.5
50°	4228.7	4244.0	4305.1	4387.7	4484.0	4578.0	4666.6	4732.4	4755.3	4740.8	4640.6
52.5°	4245.5	4270.7	4342.6	4453.4	4578.7	4707.1	4833.2	4944.8	5020.5	5032.0	4957.8
55°	4010.9	4036.1	4135.5	4299.8	4486.3	4695.7	4897.4	5085.4	5234.5	5310.9	5271.9
57.5°	3457.6	3502.6	3607.4	3799.9	4074.3	4387.7	4709.4	5043.4	5346.8	5549.4	5588.3
60°	2649.7	2703.2	2808.7	3013.5	3319.2	3693.0	4122.5	4616.2	5151.9	5607.4	5879.5
62.5°	1699.7	1750.2	1861.0	2039.1	2288.2	2693.3	3154.1	3740.3	4460.3	5179.5	5827.6
65°	873.6	901.1	959.2	1066.9	1261.0	1563.7	1977.2	2561.8	3385.0	4272.3	5209.3
67.5°	553.3	558.7	571.7	587.0	636.6	741.3	933.9	1298.5	1975.6	2901.2	3997.9
70°	478.4	478.4	472.3	470.0	476.1	490.7	520.5	605.3	833.8	1377.2	2305.8
72.5°	437.9	433.3	422.6	414.2	412.7	412.7	418.8	431.8	468.5	561.0	902.6
75°	403.5	390.5	376.0	366.1	362.3	358.4	357.7	360.0	367.6	382.1	431.0
77.5°	361.5	344.7	327.9	317.9	313.4	308.0	303.4	298.1	294.2	298.8	320.2
80°	311.1	292.0	279.0	272.8	268.3	260.6	250.7	241.5	233.1	231.6	244.6
82.5°	250.7	228.5	229.3	231.6	223.2	212.5	201.8	191.8	177.3	169.7	177.3
85°	202.5	191.1	185.7	200.2	188.0	172.0	155.1	137.6	114.6	96.3	104.7
87.5°	78.7	78.7	117.7	181.1	162.8	133.0	113.9	97.1	60.4	46.6	47.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P191792

CATALOG NUMBER: GLEON-AF-04-LED-E1-RW-7050-600

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1793.7	1793.7	1793.7	1793.7	1793.7	1793.7	1793.7	1793.7
2.5°	1796.8	1798.3	1797.6	1796.8	1796.8	1796.0	1796.8	1796.8
5°	1810.6	1814.4	1814.4	1815.9	1815.9	1816.7	1817.4	1816.7
7.5°	1831.2	1838.1	1842.7	1848.0	1848.8	1849.5	1851.1	1849.5
10°	1851.8	1865.6	1875.5	1885.5	1890.0	1891.6	1893.1	1893.1
12.5°	1877.8	1896.9	1914.5	1932.1	1940.5	1945.1	1945.1	1948.1
15°	1920.6	1939.7	1960.4	1984.0	1998.6	2006.2	2008.5	2008.5
17.5°	1981.0	1997.8	2015.4	2038.3	2056.6	2066.6	2068.9	2068.1
20°	2051.3	2067.3	2077.3	2091.8	2107.9	2119.3	2122.4	2122.4
22.5°	2131.5	2140.7	2142.2	2146.8	2159.8	2175.1	2182.0	2183.5
25°	2220.2	2222.5	2216.4	2216.4	2224.8	2239.3	2246.2	2247.0
27.5°	2334.8	2323.4	2308.1	2302.7	2308.1	2324.9	2333.3	2336.4
30°	2477.8	2450.2	2415.1	2396.0	2392.9	2415.1	2430.4	2432.7
32.5°	2641.3	2601.6	2555.0	2516.0	2506.0	2519.8	2538.1	2537.4
35°	2835.4	2788.1	2731.5	2681.8	2658.9	2672.7	2698.6	2701.7
37.5°	3059.4	2997.5	2932.5	2869.8	2833.9	2837.7	2865.2	2874.4
40°	3309.3	3229.0	3147.3	3063.2	3012.0	3002.1	3035.7	3041.0
42.5°	3576.8	3473.6	3370.4	3266.5	3200.8	3185.5	3224.5	3222.2
45°	3861.9	3730.4	3609.6	3495.0	3417.0	3394.1	3426.2	3426.2
47.5°	4168.3	4006.3	3862.6	3732.7	3647.9	3615.0	3645.6	3647.9
50°	4493.1	4321.2	4152.3	4007.8	3906.2	3864.1	3903.9	3910.0
52.5°	4816.4	4649.1	4478.6	4313.5	4190.5	4139.3	4185.1	4205.0
55°	5144.3	4980.0	4817.2	4655.9	4510.0	4449.6	4498.5	4523.7
57.5°	5490.5	5338.4	5183.3	5020.5	4879.9	4785.9	4837.8	4871.5
60°	5896.3	5766.4	5605.2	5425.5	5283.4	5187.9	5217.7	5247.5
62.5°	6217.3	6267.8	6131.0	5923.1	5740.4	5618.1	5647.2	5678.5
65°	6062.2	6579.6	6701.1	6490.9	6238.0	6047.7	6035.4	6051.5
67.5°	5067.1	6072.1	6805.1	7005.3	6793.6	6529.2	6480.2	6503.9
70°	3389.5	4641.4	5934.6	6897.5	7153.6	7051.2	7003.0	7017.5
72.5°	1627.9	2703.2	4026.2	5306.3	6085.9	6443.6	6558.2	6614.0
75°	595.4	1073.0	1940.5	2924.1	3530.2	4086.5	4449.6	4597.8
77.5°	359.2	433.3	619.8	933.2	1057.0	1183.1	1134.2	1158.6
80°	266.0	300.4	340.1	382.1	395.9	395.9	380.6	368.4
82.5°	186.5	208.6	227.8	250.7	256.8	245.3	201.8	160.5
85°	120.0	129.9	138.3	152.9	149.0	142.2	95.5	84.8
87.5°	55.0	62.7	65.7	72.6	69.5	66.5	47.4	39.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)