

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: P191801

Luminaire Tested: **GLEON-AF-03-LED-E1-RW-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191801
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-03-LED-E1-RW-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15009 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 124
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

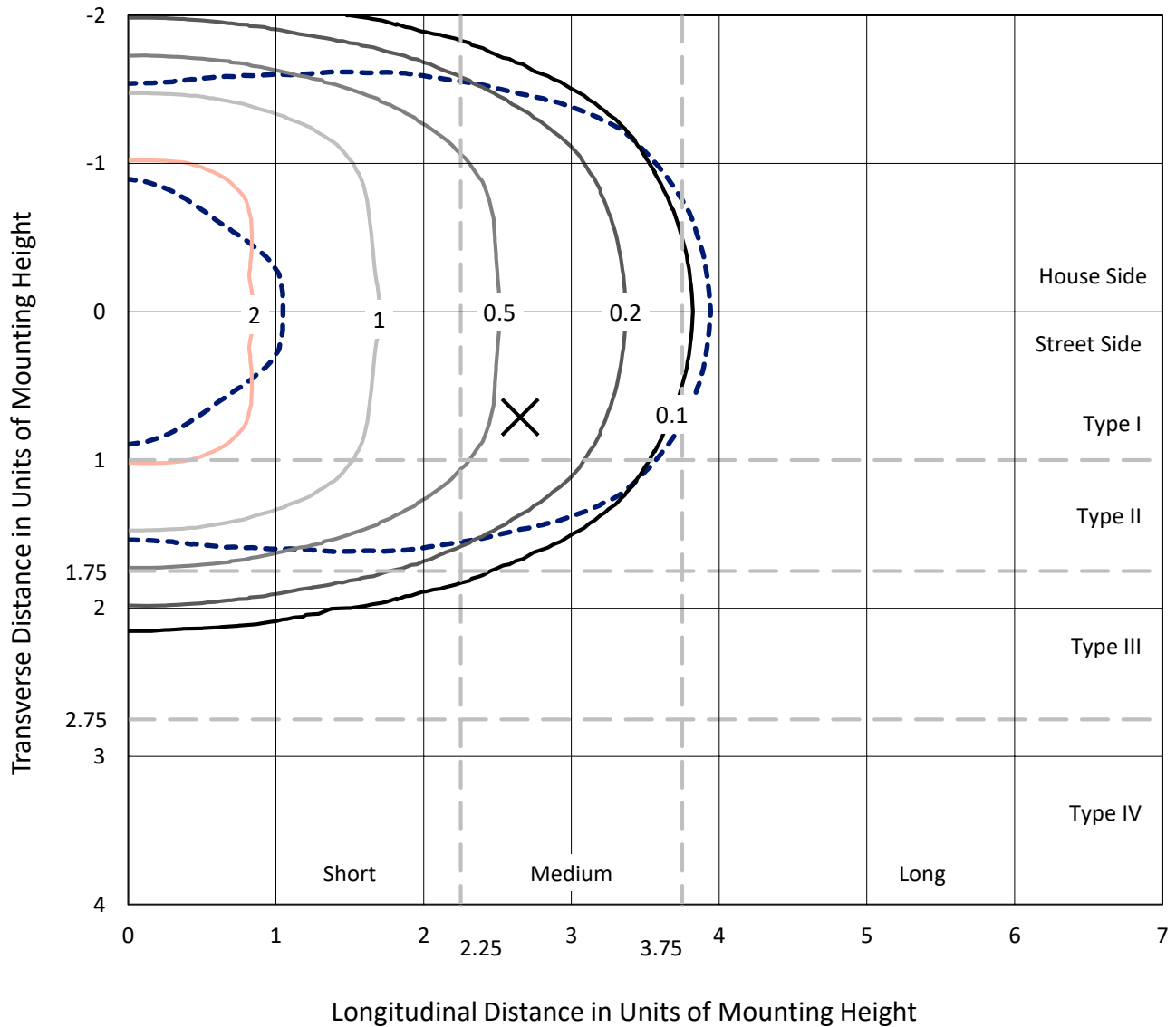


REPORT NUMBER: P191801

CATALOG NUMBER: GLEON-AF-03-LED-E1-RW-7050-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

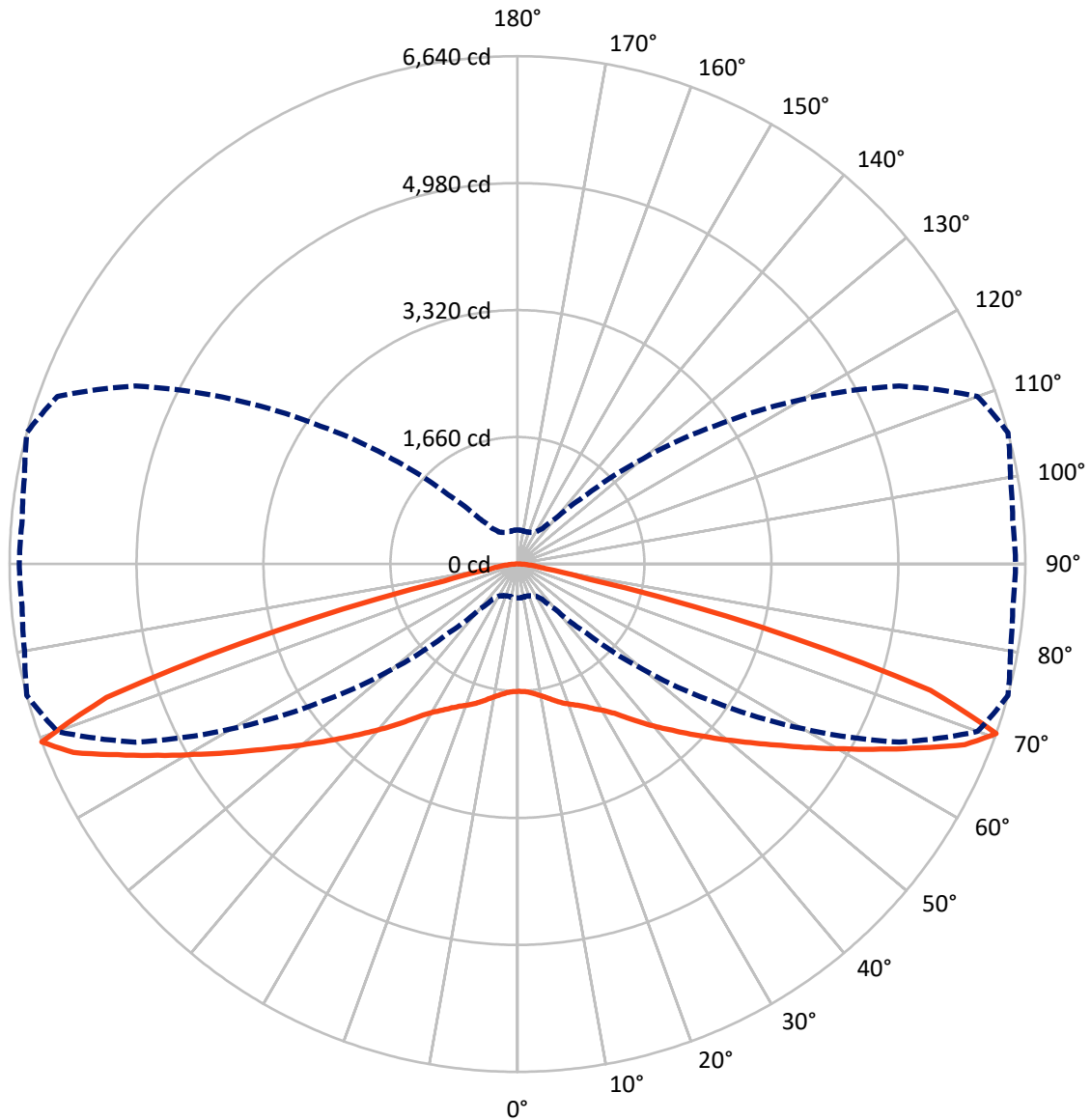


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P191801

CATALOG NUMBER: GLEON-AF-03-LED-E1-RW-7050-800

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191801

CATALOG NUMBER: GLEON-AF-03-LED-E1-RW-7050-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7504.5	0.0	7504.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7504.5	0.0	7504.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15009.0	0.0	15009.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.7	1.1
10°-20°	496.1	3.3
20°-30°	933.8	6.2
30°-40°	1653.5	11.0
40°-50°	2765.3	18.4
50°-60°	3853.4	25.7
60°-70°	3573.4	23.8
70°-80°	1424.1	9.5
80°-90°	149.7	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°	15009.0	100.0
0°-180°	15009.0	100.0



REPORT NUMBER: P191801

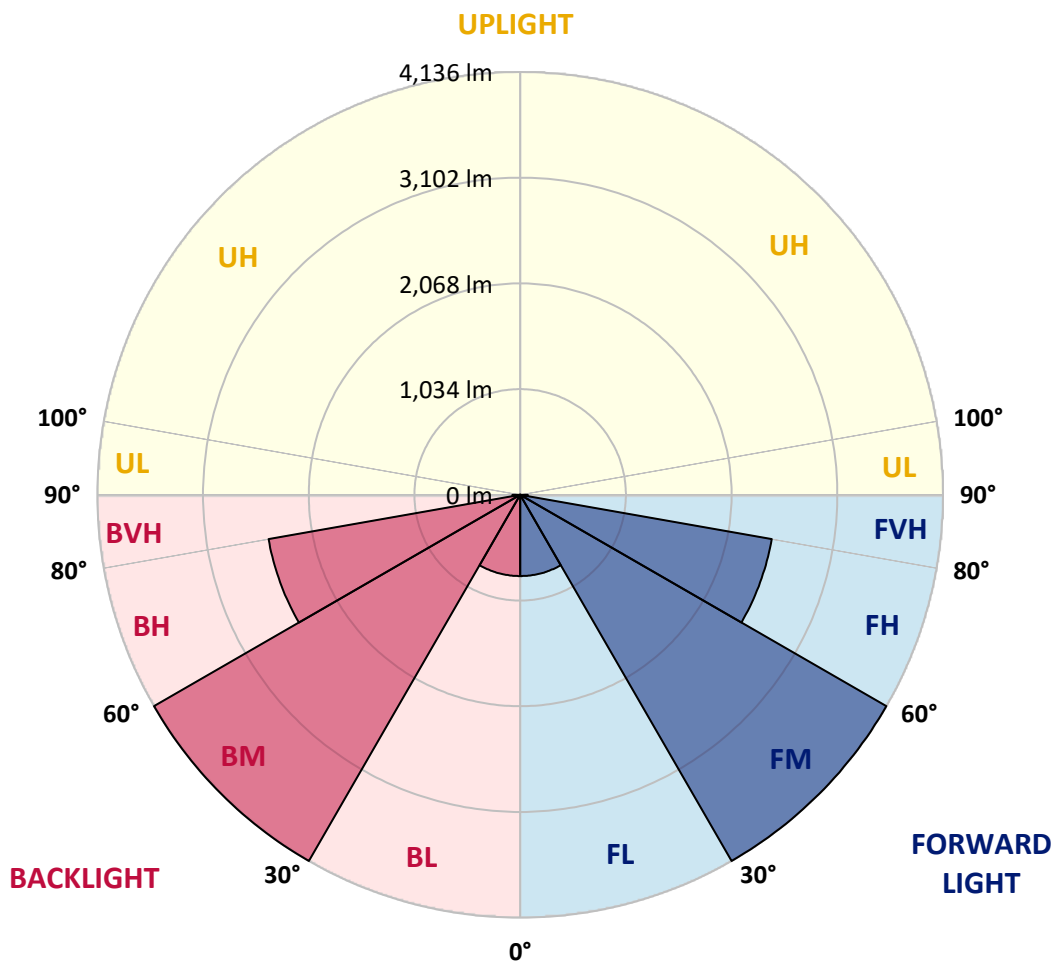
CATALOG NUMBER: GLEON-AF-03-LED-E1-RW-7050-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	794.8	5.3			
FM	(30°-60°)	4136.1	27.6			
FH	(60°-80°)	2498.8	16.6			G2/5000
FVH	(80°-90°)	74.9	0.5			G1/100
BL	(0°-30°)	794.8	5.3	B2/1000		
BM	(30°-60°)	4136.1	27.6	B3/5000		
BH	(60°-80°)	2498.8	16.6	B3/2500		G3/2500
BVH	(80°-90°)	74.9	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





REPORT NUMBER: P191801

CATALOG NUMBER: GLEON-AF-03-LED-E1-RW-7050-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8
2.5°	1662.0	1660.6	1662.0	1661.3	1662.7	1662.7	1664.1	1667.0	1667.0	1669.1	1668.4
5°	1645.7	1645.0	1647.1	1649.2	1651.4	1655.6	1659.9	1666.3	1671.2	1674.8	1678.3
7.5°	1613.8	1613.8	1616.6	1621.6	1626.5	1635.8	1645.7	1658.5	1671.2	1681.9	1691.1
10°	1587.5	1588.9	1592.5	1601.0	1609.5	1623.7	1637.2	1655.6	1673.4	1691.1	1705.3
12.5°	1571.9	1574.1	1580.4	1593.2	1607.4	1626.5	1647.1	1670.5	1690.4	1711.7	1725.9
15°	1576.9	1578.3	1587.5	1603.1	1621.6	1645.7	1673.4	1701.0	1724.4	1747.1	1766.3
17.5°	1604.6	1606.7	1617.3	1635.1	1654.2	1682.6	1712.4	1743.6	1772.7	1798.2	1821.6
20°	1654.2	1656.3	1669.8	1689.0	1711.7	1740.7	1770.5	1803.2	1835.8	1862.8	1889.0
22.5°	1724.4	1728.0	1740.7	1759.9	1785.4	1816.6	1852.1	1886.9	1918.1	1942.9	1966.3
25°	1816.6	1824.5	1836.5	1857.8	1884.7	1913.1	1951.4	1986.9	2016.7	2040.1	2057.1
27.5°	1947.2	1957.8	1967.0	1987.6	2013.8	2040.8	2079.1	2110.3	2138.7	2161.4	2174.2
30°	2120.3	2130.9	2140.1	2160.0	2184.1	2209.6	2245.8	2273.5	2291.2	2308.9	2308.2
32.5°	2330.2	2341.6	2345.1	2366.4	2391.2	2418.9	2451.5	2467.1	2481.3	2483.4	2470.7
35°	2565.0	2570.7	2584.9	2613.3	2641.6	2664.3	2695.5	2703.3	2703.3	2692.7	2664.3
37.5°	2822.5	2826.1	2845.9	2877.8	2906.9	2930.3	2951.6	2967.2	2959.4	2936.7	2889.2
40°	3104.8	3111.2	3139.6	3168.0	3200.6	3222.6	3245.3	3248.1	3240.3	3207.0	3142.4
42.5°	3374.4	3380.1	3408.4	3453.1	3495.7	3526.2	3547.5	3551.7	3526.9	3496.4	3416.2
45°	3606.3	3621.2	3658.1	3710.6	3772.3	3815.6	3844.7	3856.7	3834.8	3795.0	3702.1
47.5°	3790.1	3805.0	3857.5	3919.9	3996.5	4066.7	4114.9	4140.5	4134.8	4105.0	4003.6
50°	3924.8	3939.0	3995.8	4072.4	4161.8	4249.0	4331.3	4392.3	4413.6	4400.1	4307.2
52.5°	3940.4	3963.9	4030.5	4133.4	4249.7	4368.9	4485.9	4589.5	4659.7	4670.4	4601.6
55°	3722.7	3746.1	3838.3	3990.8	4163.9	4358.3	4545.5	4720.0	4858.3	4929.3	4893.1
57.5°	3209.1	3251.0	3348.1	3526.9	3781.6	4072.4	4371.0	4681.0	4962.6	5150.6	5186.8
60°	2459.3	2509.0	2606.9	2797.0	3080.7	3427.6	3826.2	4284.5	4781.7	5204.5	5457.0
62.5°	1577.6	1624.4	1727.3	1892.5	2123.8	2499.8	2927.5	3471.6	4139.8	4807.3	5408.8
65°	810.8	836.3	890.2	990.3	1170.4	1451.3	1835.1	2377.7	3141.7	3965.3	4834.9
67.5°	513.6	518.5	530.6	544.8	590.9	688.1	866.8	1205.2	1833.7	2692.7	3710.6
70°	444.1	444.1	438.4	436.3	441.9	455.4	483.1	561.8	773.9	1278.3	2140.1
72.5°	406.5	402.2	392.3	384.5	383.0	383.0	388.7	400.8	434.8	520.7	837.7
75°	374.5	362.5	349.0	339.8	336.2	332.7	332.0	334.1	341.2	354.7	400.1
77.5°	335.5	319.9	304.3	295.1	290.8	285.9	281.6	276.6	273.1	277.4	297.2
80°	288.7	271.0	258.9	253.2	249.0	241.9	232.7	224.2	216.4	214.9	227.0
82.5°	232.7	212.1	212.8	214.9	207.1	197.2	187.3	178.0	164.6	157.5	164.6
85°	188.0	177.3	172.4	185.9	174.5	159.6	144.0	127.7	106.4	89.4	97.2
87.5°	73.1	73.1	109.2	168.1	151.1	123.4	105.7	90.1	56.0	43.3	44.0
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: P191801

CATALOG NUMBER: GLEON-AF-03-LED-E1-RW-7050-800

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8	1664.8
2.5°	1667.7	1669.1	1668.4	1667.7	1667.7	1667.0	1667.7	1667.7
5°	1680.5	1684.0	1684.0	1685.4	1685.4	1686.1	1686.8	1686.1
7.5°	1699.6	1706.0	1710.2	1715.2	1715.9	1716.6	1718.0	1716.6
10°	1718.8	1731.5	1740.7	1750.0	1754.2	1755.6	1757.1	1757.1
12.5°	1742.9	1760.6	1776.9	1793.2	1801.0	1805.3	1805.3	1808.1
15°	1782.6	1800.3	1819.5	1841.5	1855.0	1862.0	1864.2	1864.2
17.5°	1838.6	1854.2	1870.6	1891.8	1908.9	1918.1	1920.2	1919.5
20°	1903.9	1918.8	1928.0	1941.5	1956.4	1967.0	1969.9	1969.9
22.5°	1978.4	1986.9	1988.3	1992.6	2004.6	2018.8	2025.2	2026.6
25°	2060.7	2062.8	2057.1	2057.1	2064.9	2078.4	2084.8	2085.5
27.5°	2167.1	2156.4	2142.2	2137.3	2142.2	2157.8	2165.6	2168.5
30°	2299.7	2274.2	2241.6	2223.8	2221.0	2241.6	2255.7	2257.9
32.5°	2451.5	2414.6	2371.4	2335.2	2326.0	2338.7	2355.8	2355.0
35°	2631.7	2587.7	2535.2	2489.1	2467.8	2480.6	2504.7	2507.6
37.5°	2839.5	2782.1	2721.8	2663.6	2630.3	2633.8	2659.4	2667.9
40°	3071.5	2997.0	2921.1	2843.1	2795.6	2786.3	2817.5	2822.5
42.5°	3319.8	3224.0	3128.2	3031.8	2970.8	2956.6	2992.8	2990.6
45°	3584.4	3462.3	3350.3	3243.9	3171.5	3150.2	3180.0	3180.0
47.5°	3868.8	3718.4	3585.1	3464.5	3385.7	3355.2	3383.6	3385.7
50°	4170.3	4010.7	3853.9	3719.8	3625.5	3586.5	3623.4	3629.0
52.5°	4470.3	4315.0	4156.8	4003.6	3889.4	3841.8	3884.4	3902.9
55°	4774.6	4622.1	4471.0	4321.4	4185.9	4129.8	4175.2	4198.7
57.5°	5096.0	4954.8	4810.8	4659.7	4529.2	4442.0	4490.2	4521.4
60°	5472.6	5352.1	5202.4	5035.7	4903.7	4815.1	4842.7	4870.4
62.5°	5770.6	5817.4	5690.4	5497.5	5327.9	5214.4	5241.4	5270.5
65°	5626.6	6106.8	6219.6	6024.5	5789.7	5613.1	5601.7	5616.6
67.5°	4703.0	5635.8	6316.1	6501.9	6305.4	6060.0	6014.6	6036.6
70°	3146.0	4307.9	5508.1	6401.9	6639.5	6544.5	6499.8	6513.3
72.5°	1510.9	2509.0	3736.9	4925.0	5648.6	5980.5	6086.9	6138.7
75°	552.6	995.9	1801.0	2714.0	3276.5	3792.9	4129.8	4267.5
77.5°	333.4	402.2	575.3	866.1	981.0	1098.1	1052.7	1075.4
80°	246.9	278.8	315.7	354.7	367.4	367.4	353.3	341.9
82.5°	173.1	193.7	211.4	232.7	238.3	227.7	187.3	149.0
85°	111.4	120.6	128.4	141.9	138.3	131.9	88.7	78.7
87.5°	51.1	58.2	61.0	67.4	64.6	61.7	44.0	36.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)