

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: P269222

Luminaire Tested: **GLEON-AF-04-LED-E1-RW-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269222
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-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14049.9 lumens
Efficiency: N/A
Efficacy: 108.9 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): 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

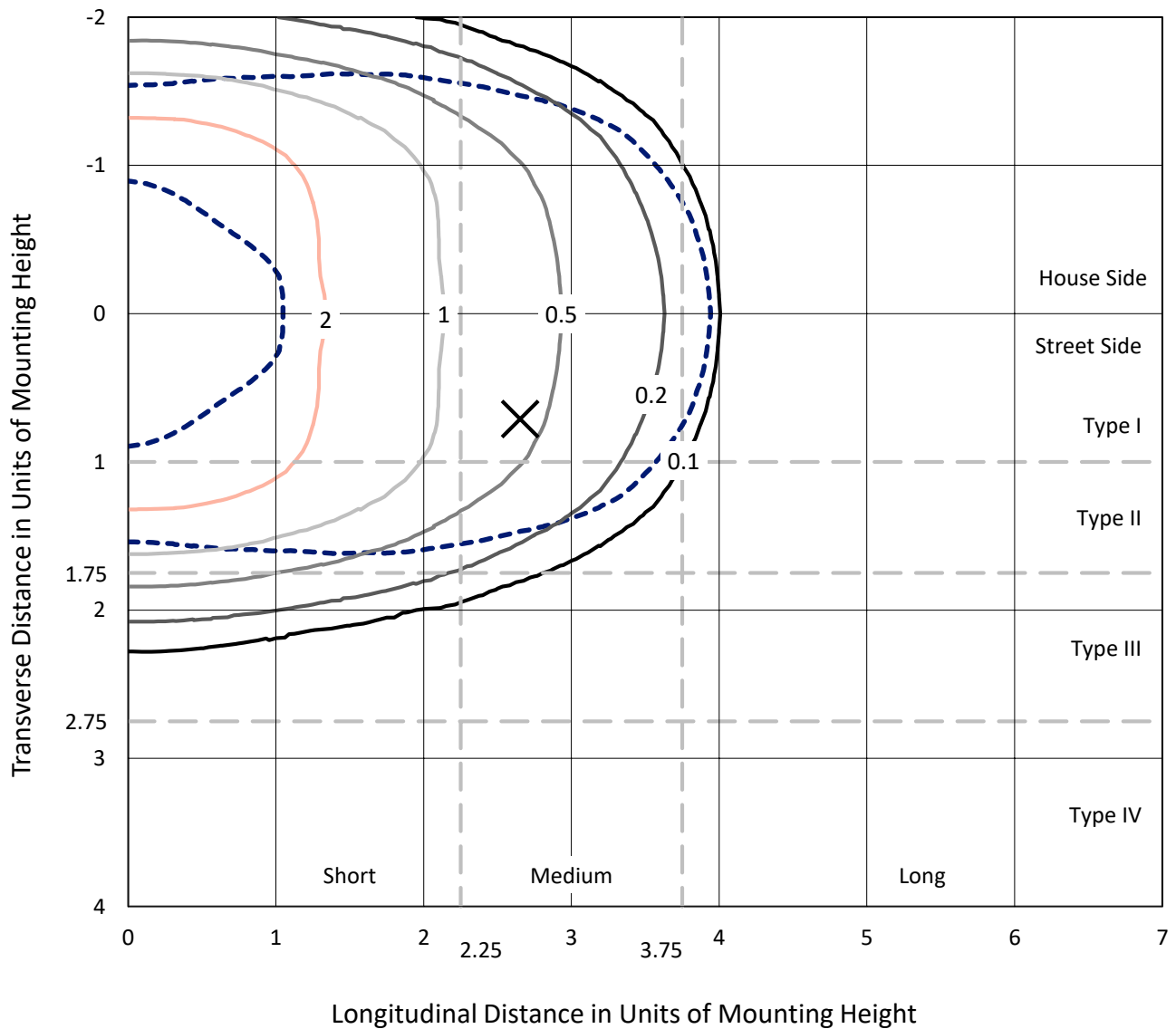


REPORT NUMBER: P269222

CATALOG NUMBER: GLEON-AF-04-LED-E1-RW-7027-600

Iso-Footcandle Lines of Horizontal Illumination

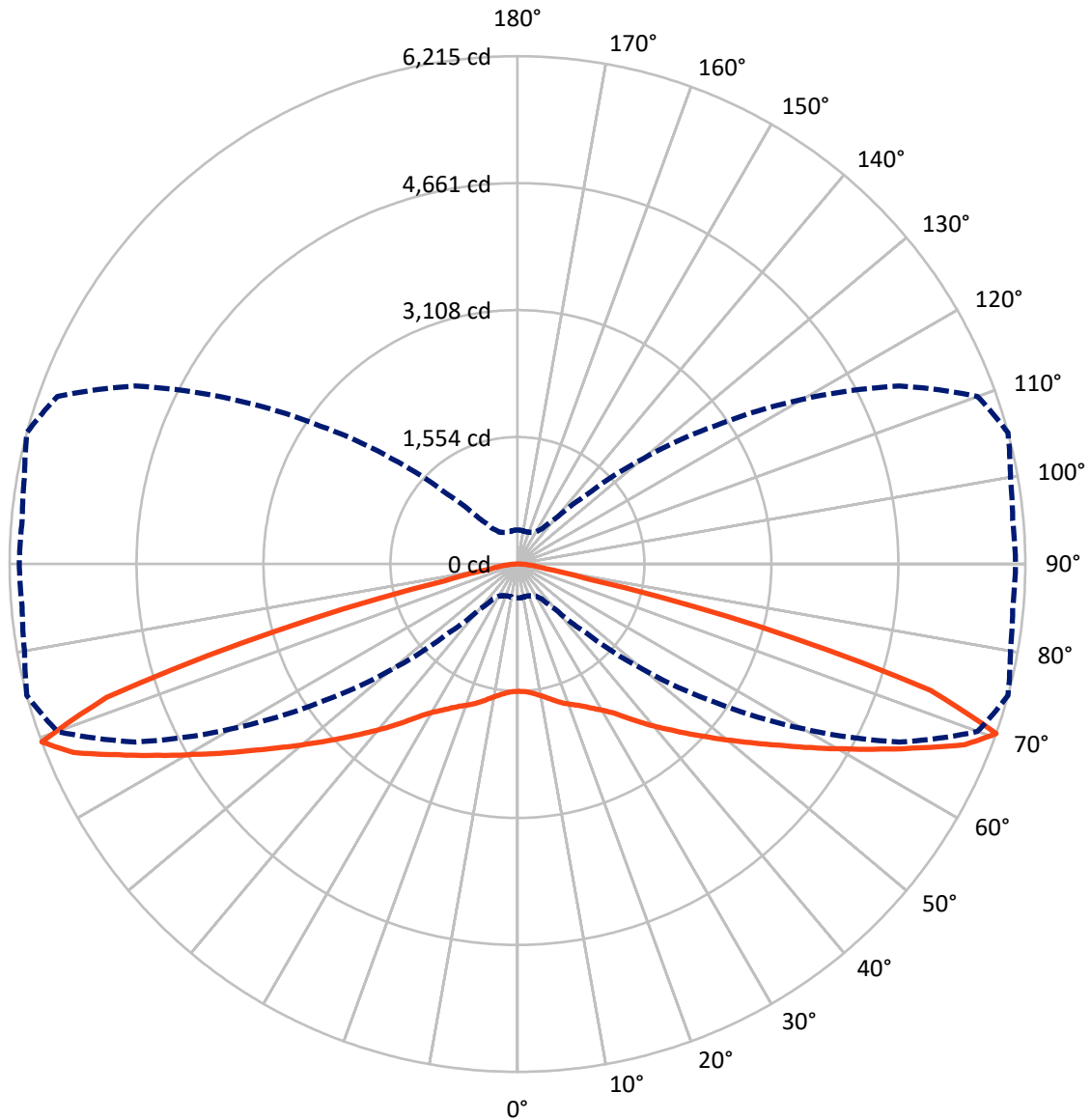
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P269222
CATALOG NUMBER: GLEON-AF-04-LED-E1-RW-7027-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P269222

CATALOG NUMBER: GLEON-AF-04-LED-E1-RW-7027-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7025.0	0.0	7025.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7025.0	0.0	7025.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14049.9	0.0	14049.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	1.1
10°-20°	464.4	3.3
20°-30°	874.1	6.2
30°-40°	1547.9	11.0
40°-50°	2588.6	18.4
50°-60°	3607.2	25.7
60°-70°	3345.1	23.8
70°-80°	1333.1	9.5
80°-90°	140.1	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°	14049.9	100.0
0°-180°	14049.9	100.0



REPORT NUMBER: P269222

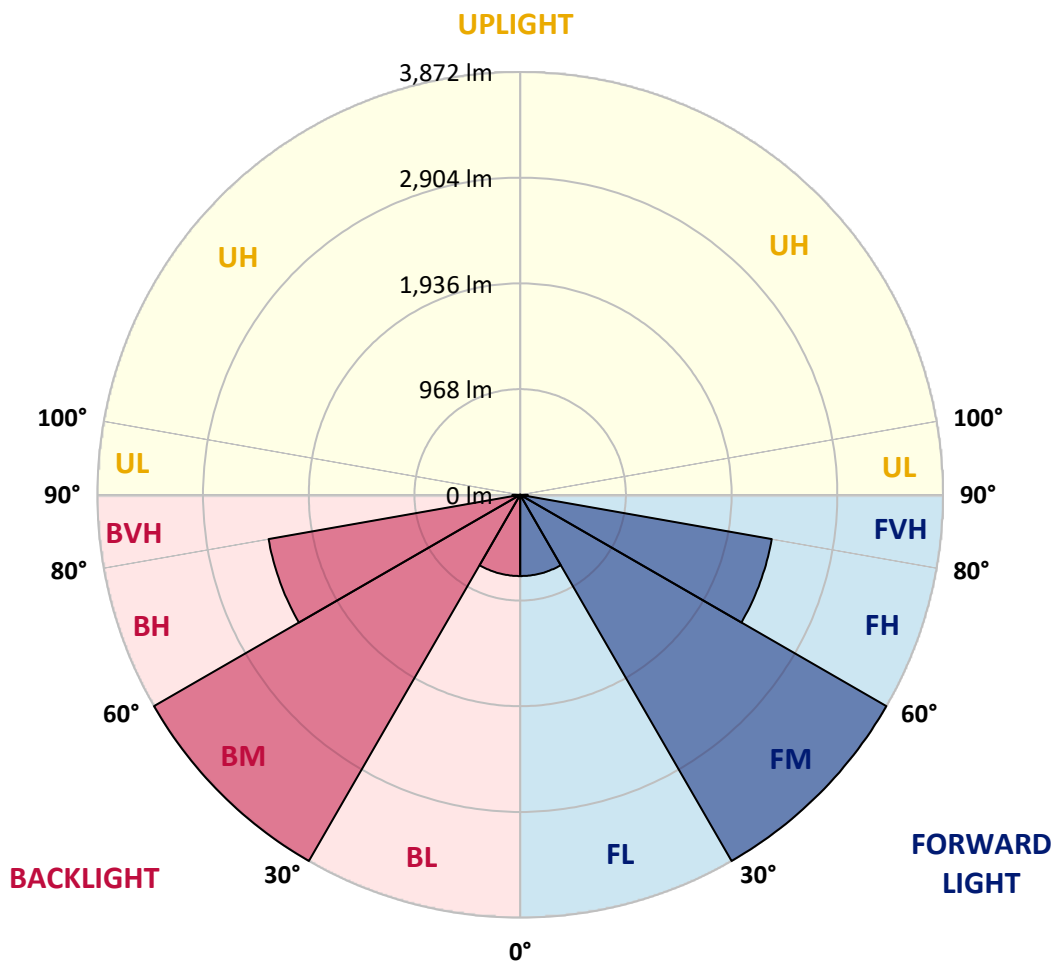
CATALOG NUMBER: GLEON-AF-04-LED-E1-RW-7027-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	744.0	5.3			
FM	(30°-60°)	3871.8	27.6			
FH	(60°-80°)	2339.1	16.6			G2/5000
FVH	(80°-90°)	70.1	0.5			G1/100
BL	(0°-30°)	744.0	5.3	B2/1000		
BM	(30°-60°)	3871.8	27.6	B3/5000		
BH	(60°-80°)	2339.1	16.6	B3/2500		G3/2500
BVH	(80°-90°)	70.1	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: P269222

CATALOG NUMBER: GLEON-AF-04-LED-E1-RW-7027-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1558.5	1558.5	1558.5	1558.5	1558.5	1558.5	1558.5	1558.5	1558.5	1558.5	1558.5
2.5°	1555.9	1554.4	1555.9	1555.1	1556.5	1556.5	1557.8	1560.4	1560.4	1562.4	1561.8
5°	1540.6	1539.9	1541.9	1543.8	1545.9	1549.8	1553.8	1559.7	1564.5	1567.7	1571.0
7.5°	1510.7	1510.7	1513.4	1518.0	1522.5	1531.3	1540.6	1552.5	1564.5	1574.4	1583.1
10°	1486.1	1487.5	1490.7	1498.7	1506.6	1519.9	1532.6	1549.8	1566.5	1583.1	1596.3
12.5°	1471.5	1473.5	1479.5	1491.4	1504.8	1522.5	1541.9	1563.8	1582.4	1602.2	1615.6
15°	1476.2	1477.4	1486.1	1500.7	1518.0	1540.6	1566.5	1592.3	1614.3	1635.5	1653.4
17.5°	1502.1	1504.0	1514.0	1530.6	1548.5	1575.1	1602.9	1632.2	1659.3	1683.3	1705.3
20°	1548.5	1550.5	1563.1	1581.0	1602.2	1629.5	1657.5	1687.9	1718.5	1743.7	1768.4
22.5°	1614.3	1617.6	1629.5	1647.4	1671.3	1700.5	1733.8	1766.2	1795.5	1818.8	1840.6
25°	1700.5	1707.9	1719.1	1739.1	1764.4	1791.0	1826.8	1859.9	1887.8	1909.7	1925.6
27.5°	1822.8	1832.7	1841.3	1860.6	1885.2	1910.3	1946.3	1975.5	2002.1	2023.3	2035.2
30°	1984.7	1994.7	2003.4	2021.9	2044.5	2068.4	2102.4	2128.2	2144.9	2161.4	2160.8
32.5°	2181.4	2192.0	2195.3	2215.2	2238.4	2264.3	2294.9	2309.5	2322.7	2324.8	2312.7
35°	2401.1	2406.4	2419.8	2446.3	2472.9	2494.1	2523.2	2530.5	2530.5	2520.6	2494.1
37.5°	2642.2	2645.5	2664.1	2693.9	2721.1	2743.1	2762.9	2777.6	2770.4	2749.1	2704.5
40°	2906.5	2912.5	2939.0	2965.6	2996.0	3016.7	3037.9	3040.6	3033.2	3002.0	2941.6
42.5°	3158.8	3164.1	3190.6	3232.6	3272.3	3300.8	3320.8	3324.7	3301.5	3273.0	3198.0
45°	3375.9	3389.8	3424.3	3473.4	3531.2	3571.8	3599.0	3610.3	3589.6	3552.5	3465.5
47.5°	3547.9	3561.8	3610.9	3669.3	3741.1	3806.8	3852.0	3875.8	3870.5	3842.7	3747.8
50°	3674.1	3687.4	3740.5	3812.1	3895.8	3977.4	4054.5	4111.6	4131.6	4119.0	4032.0
52.5°	3688.6	3710.5	3773.1	3869.3	3978.1	4089.8	4199.2	4296.2	4362.0	4372.0	4307.6
55°	3484.7	3506.8	3593.0	3735.8	3897.8	4079.7	4255.0	4418.5	4547.8	4614.4	4580.5
57.5°	3004.0	3043.2	3134.1	3301.5	3540.0	3812.1	4091.7	4381.9	4645.6	4821.5	4855.2
60°	2302.1	2348.7	2440.2	2618.2	2883.9	3208.6	3581.7	4010.8	4476.2	4872.0	5108.3
62.5°	1476.9	1520.7	1616.9	1771.5	1988.0	2340.1	2740.4	3249.7	3875.3	4500.1	5063.1
65°	759.0	783.0	833.4	927.1	1095.7	1358.5	1717.7	2225.8	2941.0	3711.8	4526.0
67.5°	480.8	485.4	496.8	510.0	553.1	644.2	811.3	1128.2	1716.5	2520.6	3473.4
70°	415.6	415.6	410.3	408.4	413.7	426.2	452.1	525.9	724.5	1196.5	2003.4
72.5°	380.5	376.5	367.1	360.0	358.6	358.6	364.0	375.2	407.0	487.4	784.2
75°	350.6	339.3	326.8	318.1	314.8	311.4	310.8	312.8	319.3	332.1	374.6
77.5°	314.0	299.4	284.9	276.1	272.2	267.6	263.7	259.0	255.7	259.6	278.3
80°	270.3	253.6	242.4	237.1	233.1	226.5	217.7	209.8	202.5	201.2	212.4
82.5°	217.7	198.5	199.2	201.2	193.9	184.6	175.3	166.6	154.1	147.4	154.1
85°	176.0	165.9	161.3	174.0	163.3	149.4	134.7	119.6	99.6	83.6	91.0
87.5°	68.5	68.5	102.2	157.4	141.5	115.5	99.0	84.4	52.5	40.6	41.1
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: P269222

CATALOG NUMBER: GLEON-AF-04-LED-E1-RW-7027-600

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1558.5	1558.5	1558.5	1558.5	1558.5	1558.5	1558.5	1558.5
2.5°	1561.2	1562.4	1561.8	1561.2	1561.2	1560.4	1561.2	1561.2
5°	1573.1	1576.3	1576.3	1577.8	1577.8	1578.4	1579.0	1578.4
7.5°	1591.0	1596.9	1601.0	1605.6	1606.3	1607.0	1608.2	1607.0
10°	1609.0	1620.9	1629.5	1638.1	1642.1	1643.4	1644.7	1644.7
12.5°	1631.5	1648.1	1663.4	1678.7	1685.9	1689.9	1689.9	1692.5
15°	1668.7	1685.3	1703.2	1723.8	1736.5	1743.0	1745.0	1745.0
17.5°	1721.2	1735.7	1751.1	1771.0	1786.9	1795.5	1797.5	1796.8
20°	1782.2	1796.3	1804.9	1817.5	1831.4	1841.3	1844.0	1844.0
22.5°	1851.9	1859.9	1861.3	1865.2	1876.5	1889.9	1895.9	1897.1
25°	1929.0	1930.9	1925.6	1925.6	1933.0	1945.5	1951.6	1952.2
27.5°	2028.6	2018.6	2005.3	2000.7	2005.3	2020.0	2027.3	2029.9
30°	2152.8	2128.9	2098.4	2081.7	2079.0	2098.4	2111.6	2113.6
32.5°	2294.9	2260.3	2219.8	2185.9	2177.3	2189.3	2205.2	2204.6
35°	2463.5	2422.4	2373.2	2330.1	2310.1	2322.1	2344.7	2347.4
37.5°	2658.1	2604.2	2547.9	2493.4	2462.3	2465.5	2489.5	2497.4
40°	2875.2	2805.4	2734.4	2661.4	2616.9	2608.3	2637.6	2642.2
42.5°	3107.6	3017.9	2928.4	2838.0	2781.0	2767.7	2801.5	2799.5
45°	3355.3	3241.1	3136.3	3036.6	2968.9	2949.0	2976.9	2976.9
47.5°	3621.5	3480.8	3356.0	3243.2	3169.4	3140.8	3167.5	3169.4
50°	3903.8	3754.3	3607.7	3482.1	3393.8	3357.2	3391.8	3397.1
52.5°	4184.7	4039.3	3891.2	3747.8	3640.8	3596.4	3636.2	3653.4
55°	4469.5	4326.7	4185.4	4045.2	3918.3	3865.9	3908.4	3930.4
57.5°	4770.3	4638.2	4503.5	4362.0	4239.8	4158.2	4203.3	4232.5
60°	5122.9	5010.0	4869.9	4713.9	4590.3	4507.3	4533.2	4559.2
62.5°	5401.8	5445.6	5326.8	5146.2	4987.5	4881.2	4906.5	4933.8
65°	5267.0	5716.5	5822.2	5639.6	5419.7	5254.5	5243.8	5257.7
67.5°	4402.5	5275.7	5912.5	6086.5	5902.6	5672.7	5630.2	5650.9
70°	2945.0	4032.6	5156.1	5992.9	6215.3	6126.4	6084.4	6097.1
72.5°	1414.4	2348.7	3498.1	4610.3	5287.7	5598.3	5697.9	5746.5
75°	517.2	932.4	1685.9	2540.5	3067.2	3550.6	3865.9	3994.8
77.5°	312.2	376.5	538.5	810.8	918.3	1027.9	985.4	1006.7
80°	231.0	261.0	295.5	332.1	344.1	344.1	330.7	320.1
82.5°	162.1	181.3	197.8	217.7	223.0	213.2	175.3	139.4
85°	104.3	112.8	120.3	132.8	129.4	123.4	83.1	73.8
87.5°	47.8	54.4	57.1	63.2	60.5	57.9	41.1	34.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)