

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: P269282

Luminaire Tested: **GLEON-AF-05-LED-E1-5MQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269282
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
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-E1-5MQ-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17889.4 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 162
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

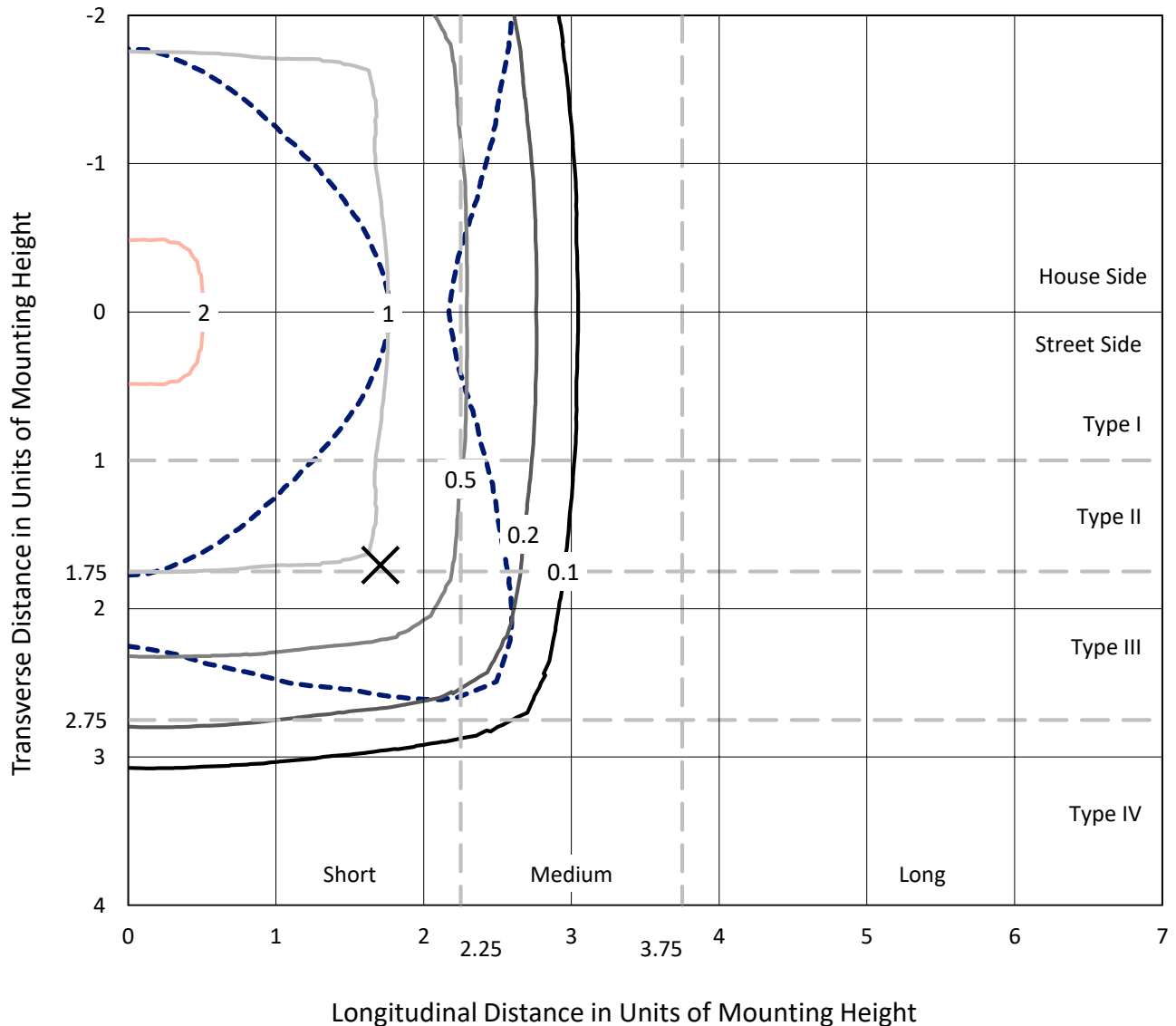


REPORT NUMBER: P269282

CATALOG NUMBER: GLEON-AF-05-LED-E1-5MQ-7027-600

Iso-Footcandle Lines of Horizontal Illumination

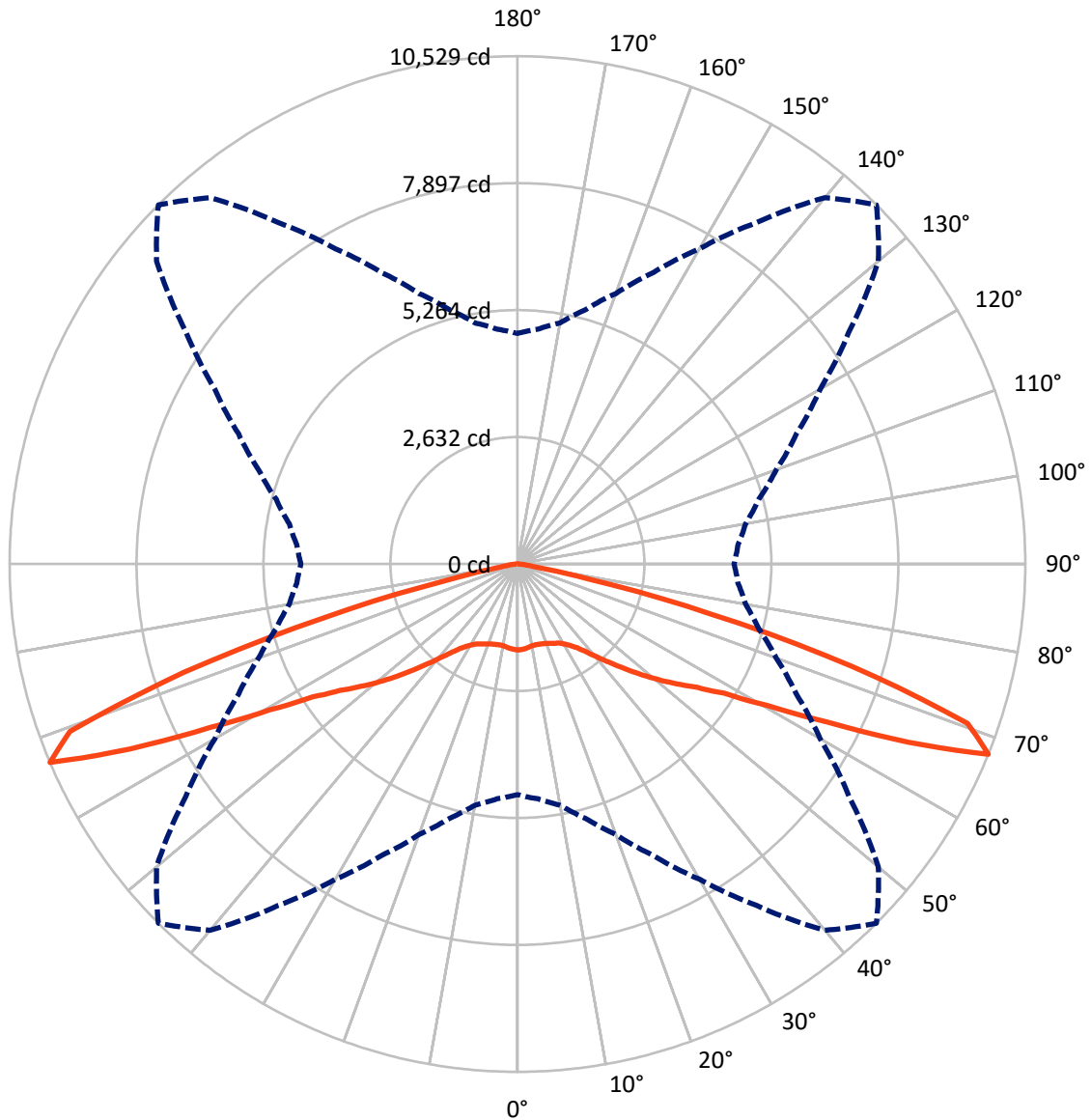
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P269282
CATALOG NUMBER: GLEON-AF-05-LED-E1-5MQ-7027-600

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P269282

CATALOG NUMBER: GLEON-AF-05-LED-E1-5MQ-7027-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8944.7	0.0	8944.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8944.7	0.0	8944.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	17889.4	0.0	17889.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.9	0.9
10°-20°	484.2	2.7
20°-30°	823.1	4.6
30°-40°	1345.5	7.5
40°-50°	2402.0	13.4
50°-60°	4049.9	22.6
60°-70°	6284.8	35.1
70°-80°	2208.2	12.3
80°-90°	124.8	0.7
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°	17889.4	100.0
0°-180°	17889.4	100.0



REPORT NUMBER: P269282

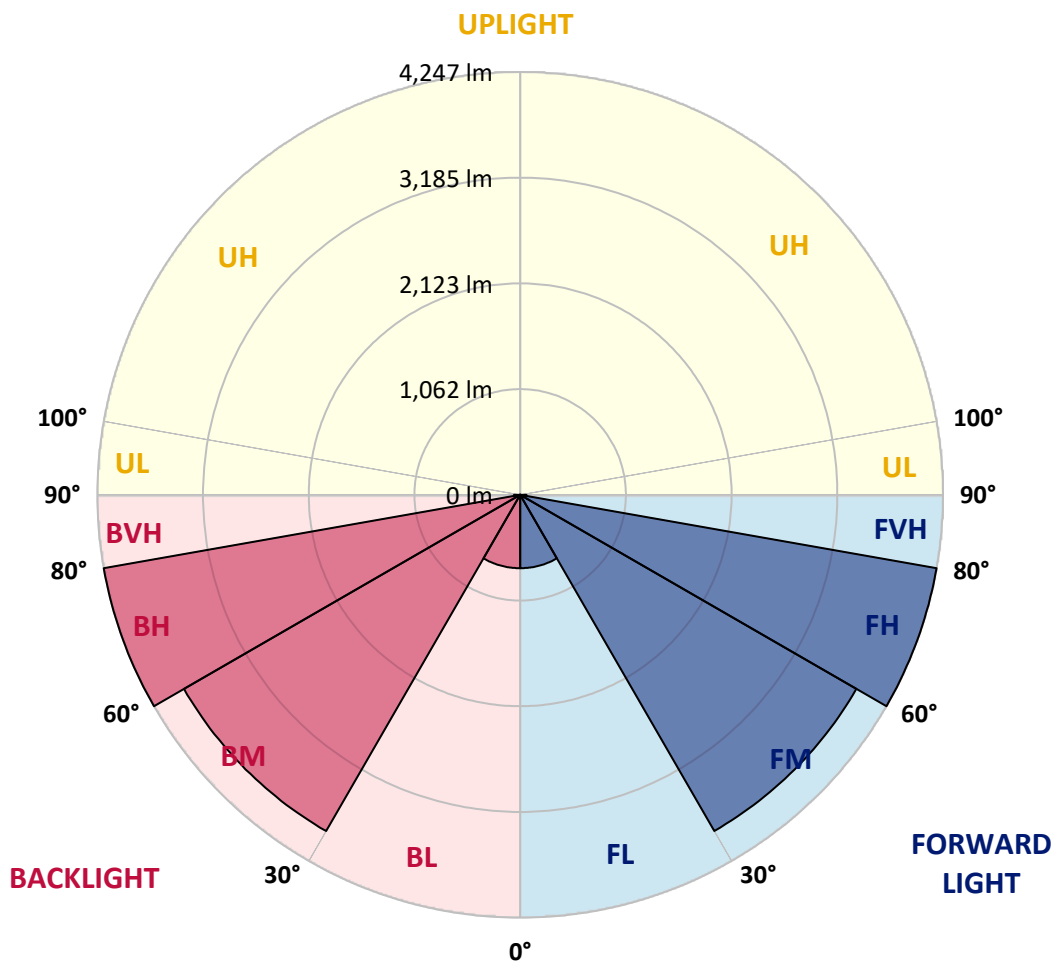
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	737.1	4.1			
FM	(30°-60°)	3898.7	21.8			
FH	(60°-80°)	4246.5	23.7			G2/5000
FVH	(80°-90°)	62.4	0.3			G1/100
BL	(0°-30°)	737.1	4.1	B2/1000		
BM	(30°-60°)	3898.7	21.8	B3/5000		
BH	(60°-80°)	4246.5	23.7	B4/5000		G2/5000
BVH	(80°-90°)	62.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





REPORT NUMBER: P269282

CATALOG NUMBER: GLEON-AF-05-LED-E1-5MQ-7027-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1782.7	1782.7	1782.7	1782.7	1782.7	1782.7	1782.7	1782.7	1782.7	1782.7	1782.7
2.5°	1776.2	1777.8	1777.8	1777.8	1776.9	1776.9	1775.4	1776.9	1776.2	1773.8	1774.5
5°	1761.3	1763.1	1763.1	1762.1	1764.7	1763.8	1761.3	1763.1	1762.1	1760.6	1761.3
7.5°	1739.9	1742.4	1742.4	1741.6	1744.1	1743.3	1741.6	1742.4	1742.4	1739.9	1739.9
10°	1716.1	1717.7	1717.7	1716.9	1721.1	1721.1	1720.3	1722.7	1723.5	1721.1	1719.4
12.5°	1693.9	1696.4	1696.4	1699.7	1703.7	1705.4	1709.6	1712.8	1716.1	1715.4	1712.0
15°	1680.8	1682.3	1685.7	1689.8	1696.4	1702.2	1708.8	1716.1	1722.7	1724.3	1719.4
17.5°	1672.6	1675.0	1679.9	1685.7	1694.7	1704.7	1714.4	1724.3	1733.4	1736.8	1730.9
20°	1670.0	1671.7	1676.6	1686.5	1698.9	1713.6	1727.6	1739.2	1751.4	1755.6	1751.4
22.5°	1675.0	1678.3	1684.1	1695.6	1712.0	1730.9	1747.5	1763.1	1778.6	1786.1	1780.4
25°	1697.2	1700.5	1707.9	1722.7	1740.7	1760.6	1779.5	1797.6	1811.5	1819.0	1814.8
27.5°	1738.3	1742.4	1751.4	1766.2	1786.1	1807.4	1828.1	1842.9	1854.3	1856.7	1851.9
30°	1800.1	1809.0	1819.7	1836.2	1859.3	1877.4	1897.8	1911.1	1925.1	1925.1	1920.9
32.5°	1896.3	1905.3	1916.9	1932.6	1950.6	1970.3	1988.4	1999.9	2014.8	2015.5	2005.7
35°	2040.3	2044.4	2054.2	2064.1	2080.6	2097.8	2113.5	2120.9	2133.3	2134.1	2125.0
37.5°	2230.3	2231.1	2237.7	2241.0	2255.9	2274.7	2289.5	2294.5	2305.9	2304.3	2295.3
40°	2451.7	2455.7	2458.2	2463.2	2478.8	2496.8	2512.5	2515.0	2527.3	2524.9	2513.3
42.5°	2707.4	2709.1	2723.1	2730.5	2745.3	2754.4	2774.1	2776.7	2791.4	2784.7	2771.6
45°	2994.6	3009.4	3022.5	3037.3	3053.0	3063.7	3079.3	3076.1	3085.9	3076.1	3068.6
47.5°	3296.5	3307.2	3336.8	3359.8	3385.4	3394.3	3416.7	3406.7	3416.7	3402.6	3400.2
50°	3628.9	3647.7	3673.3	3699.6	3726.8	3741.6	3770.4	3758.0	3771.2	3758.0	3750.7
52.5°	3956.2	3961.3	4017.2	4055.8	4093.7	4111.0	4128.3	4122.5	4123.3	4122.5	4115.0
55°	4267.3	4278.7	4334.7	4387.4	4453.2	4501.8	4531.4	4528.0	4520.7	4513.3	4500.9
57.5°	4617.7	4629.2	4693.5	4758.4	4833.3	4902.4	4962.4	5024.1	5047.9	5054.7	5027.5
60°	5091.7	5090.8	5176.4	5255.4	5362.3	5465.1	5596.7	5730.8	5884.6	5956.2	5861.6
62.5°	5573.8	5593.4	5716.9	5856.7	6077.2	6291.9	6534.6	6773.2	7016.8	7214.9	7004.4
65°	5516.1	5591.8	5775.3	6091.9	6499.1	6983.0	7506.1	8059.9	8560.0	8903.9	8518.1
67.5°	4780.6	4888.3	5075.2	5460.2	5969.3	6667.0	7545.7	8640.6	9913.3	10528.8	9766.2
70°	3465.1	3586.9	3782.8	4158.7	4663.0	5326.1	6280.4	7595.0	9279.9	9900.2	9060.2
72.5°	1724.3	1790.1	1911.1	2150.5	2532.2	3070.2	3935.7	5199.4	6690.0	7259.5	6491.8
75°	585.8	616.1	636.8	715.0	835.9	1047.2	1477.5	2273.2	3467.5	4157.0	3418.3
77.5°	338.1	338.9	352.9	366.9	387.4	410.5	468.0	614.5	1063.0	1509.6	1100.0
80°	218.8	218.0	229.5	240.2	254.2	265.7	269.0	284.7	328.2	389.1	348.1
82.5°	113.5	127.5	153.0	167.1	193.3	198.3	191.7	185.9	196.5	204.1	208.9
85°	62.5	54.3	81.4	105.3	116.8	118.4	118.4	111.8	116.1	113.5	123.3
87.5°	28.7	26.3	32.1	51.8	55.2	46.9	49.3	43.6	31.4	30.5	34.6
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: P269282

CATALOG NUMBER: GLEON-AF-05-LED-E1-5MQ-7027-600

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1782.7	1782.7	1782.7	1782.7	1782.7	1782.7	1782.7	1782.7
2.5°	1774.5	1775.4	1775.4	1777.8	1778.6	1780.4	1782.0	1782.7
5°	1760.6	1763.1	1761.3	1763.8	1763.8	1765.4	1765.4	1766.2
7.5°	1739.9	1742.4	1742.4	1742.4	1741.6	1744.1	1744.1	1744.1
10°	1718.5	1720.3	1719.4	1717.7	1716.1	1718.5	1717.7	1716.9
12.5°	1712.0	1707.9	1704.7	1702.9	1699.7	1700.5	1698.1	1698.1
15°	1716.1	1708.8	1702.9	1700.5	1697.2	1695.6	1693.9	1694.7
17.5°	1726.8	1717.7	1710.4	1706.2	1702.2	1699.7	1696.4	1697.2
20°	1745.8	1735.0	1724.3	1716.1	1708.8	1704.7	1702.2	1701.3
22.5°	1773.8	1758.2	1742.4	1730.1	1720.3	1714.4	1712.0	1710.4
25°	1805.9	1788.5	1770.4	1756.5	1746.6	1739.2	1734.2	1734.2
27.5°	1846.0	1832.2	1815.7	1799.2	1790.1	1782.7	1779.5	1777.8
30°	1913.6	1900.5	1887.2	1871.6	1860.1	1852.7	1846.9	1842.0
32.5°	1999.9	1989.2	1978.5	1967.1	1956.4	1946.4	1937.5	1933.3
35°	2121.6	2113.5	2106.0	2093.0	2088.7	2083.0	2078.0	2073.9
37.5°	2289.5	2286.2	2286.2	2272.3	2268.9	2266.6	2261.6	2262.4
40°	2510.0	2513.3	2509.1	2504.3	2501.8	2495.2	2495.2	2501.1
42.5°	2770.8	2773.2	2782.3	2774.1	2783.2	2775.0	2770.0	2774.1
45°	3073.6	3082.7	3100.7	3092.4	3098.3	3084.2	3067.0	3067.8
47.5°	3413.3	3421.6	3429.0	3423.3	3424.0	3401.1	3377.9	3372.1
50°	3766.2	3769.6	3773.7	3765.4	3767.1	3741.6	3715.2	3716.1
52.5°	4115.0	4130.6	4147.1	4124.9	4119.9	4091.2	4054.2	4039.4
55°	4514.1	4536.4	4517.3	4478.7	4440.1	4401.3	4352.8	4344.7
57.5°	5006.1	4968.2	4909.0	4835.8	4782.2	4728.0	4678.6	4658.0
60°	5690.6	5548.2	5441.3	5332.7	5264.3	5197.8	5132.7	5122.9
62.5°	6658.0	6412.0	6198.9	5974.4	5790.8	5647.7	5533.4	5501.3
65°	7870.6	7288.9	6784.7	6314.0	5905.3	5596.7	5402.5	5317.0
67.5°	8392.2	7243.8	6379.1	5711.1	5176.4	4802.9	4593.0	4488.7
70°	7374.5	6007.2	5066.9	4398.1	3911.0	3512.8	3322.8	3210.9
72.5°	5073.4	3821.4	3021.7	2466.3	2077.3	1744.1	1612.5	1602.5
75°	2278.0	1508.9	1039.9	801.3	674.5	586.6	559.5	538.9
77.5°	637.5	471.4	420.3	393.3	366.9	336.4	324.9	327.4
80°	310.2	292.8	281.3	264.1	240.2	214.8	203.1	208.1
82.5°	205.7	203.1	210.7	198.3	163.8	139.1	116.8	107.0
85°	125.0	126.8	129.1	130.0	110.2	77.3	52.6	59.3
87.5°	49.3	56.8	61.8	64.1	60.0	37.0	29.6	30.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)