

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: P190801

Luminaire Tested: **GLEON-AF-03-LED-E1-5MQ-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190801
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-03-LED-E1-5MQ-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15778 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

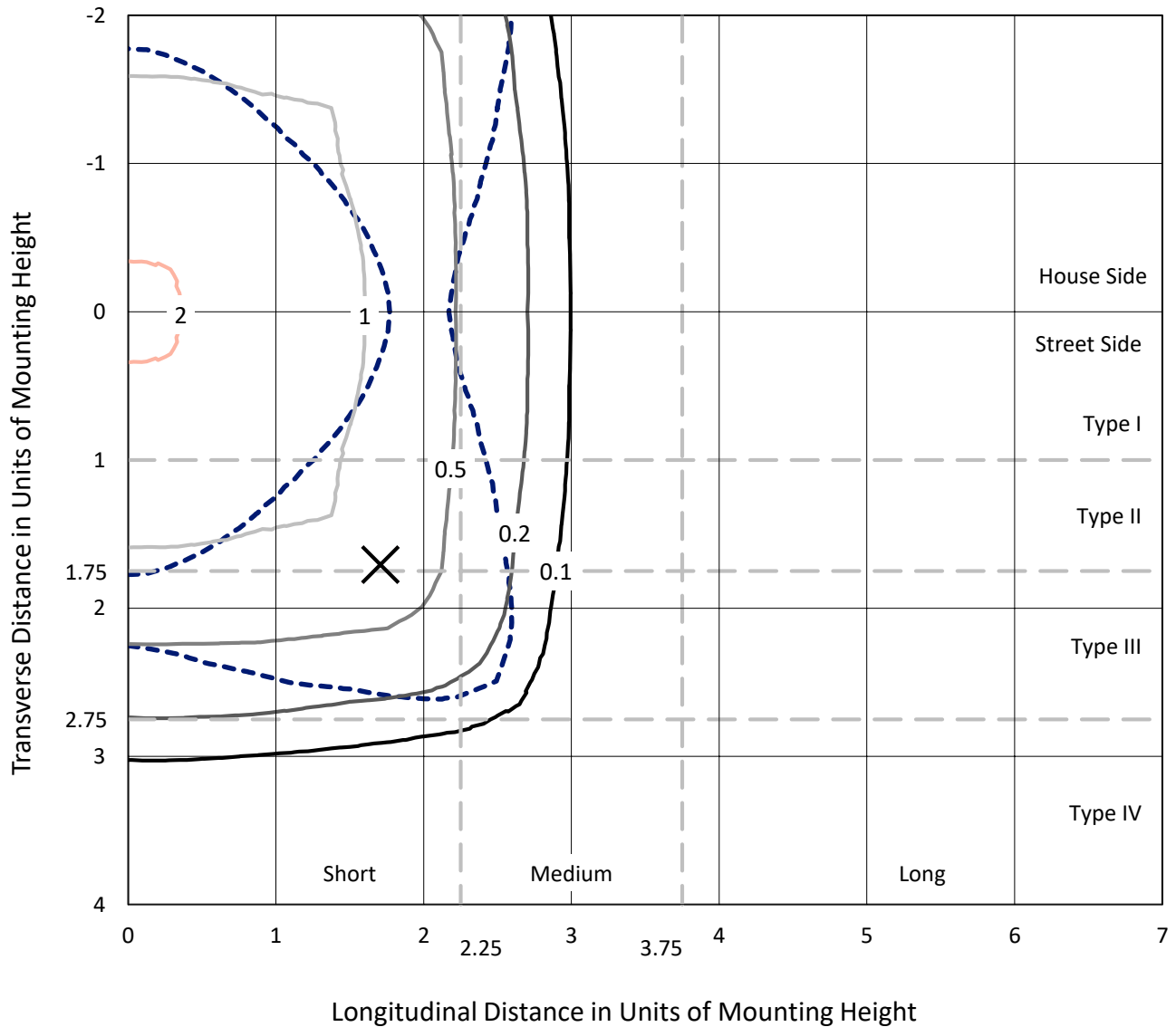
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P190801
 CATALOG NUMBER: GLEON-AF-03-LED-E1-5MQ-800

Iso-Footcandle Lines of Horizontal Illumination

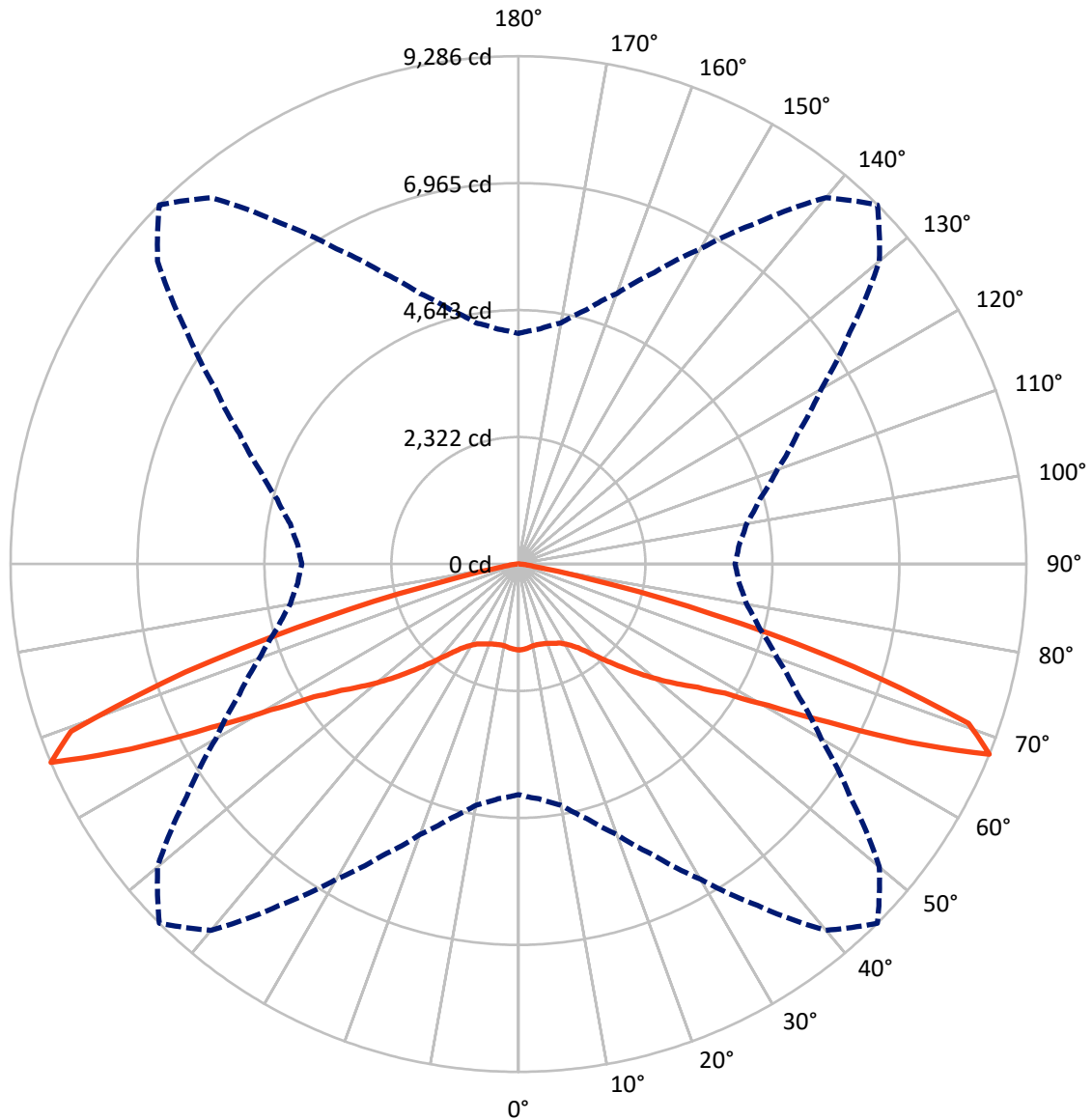
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P190801
CATALOG NUMBER: GLEON-AF-03-LED-E1-5MQ-800

Luminous Intensity Polar Plot



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

REPORT NUMBER: P190801

CATALOG NUMBER: GLEON-AF-03-LED-E1-5MQ-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7889.0	0.0	7889.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7889.0	0.0	7889.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15778.0	0.0	15778.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.2	0.9
10°-20°	427.0	2.7
20°-30°	726.0	4.6
30°-40°	1186.7	7.5
40°-50°	2118.5	13.4
50°-60°	3571.9	22.6
60°-70°	5543.0	35.1
70°-80°	1947.6	12.3
80°-90°	110.1	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°	15778.0	100.0
0°-180°	15778.0	100.0



REPORT NUMBER: P190801

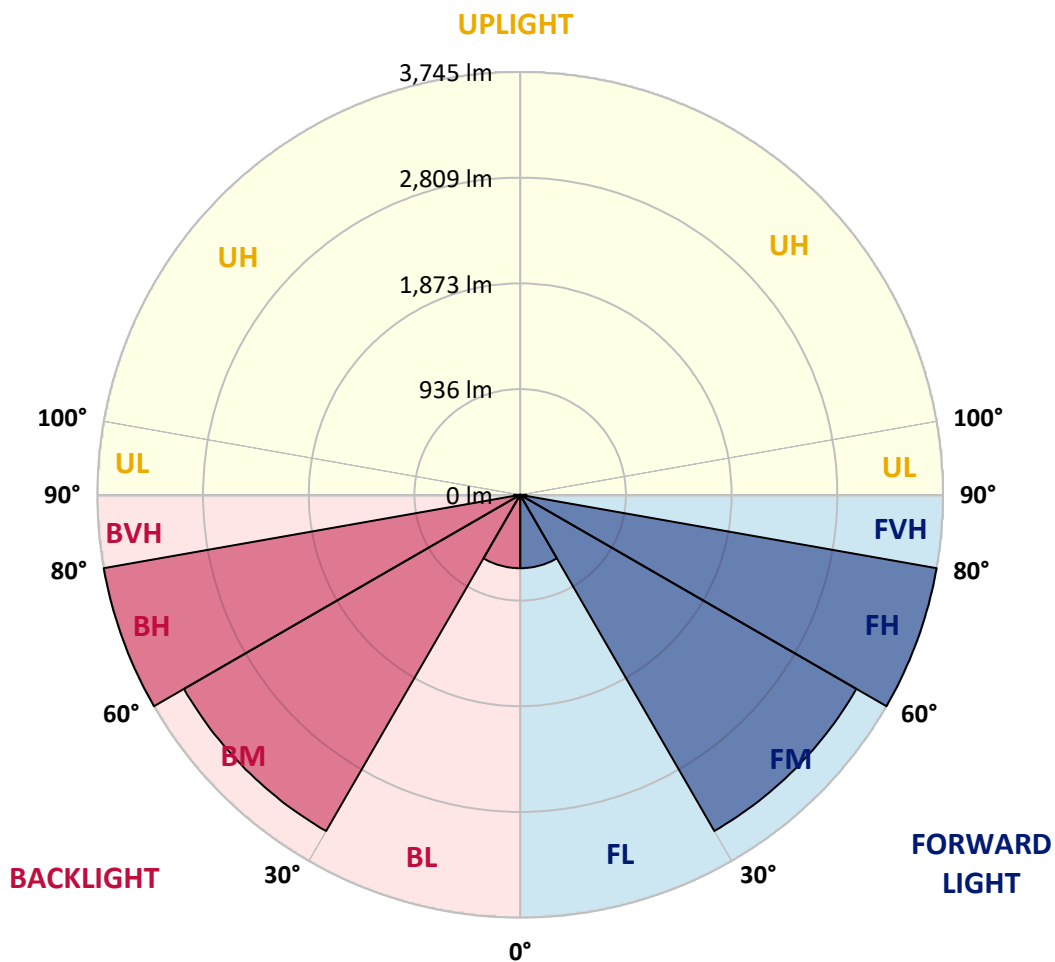
CATALOG NUMBER: GLEON-AF-03-LED-E1-5MQ-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	650.1	4.1			
FM	(30°-60°)	3438.6	21.8			
FH	(60°-80°)	3745.3	23.7			G2/5000
FVH	(80°-90°)	55.0	0.3			G1/100
BL	(0°-30°)	650.1	4.1	B2/1000		
BM	(30°-60°)	3438.6	21.8	B3/5000		
BH	(60°-80°)	3745.3	23.7	B4/5000		G2/5000
BVH	(80°-90°)	55.0	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: P190801
 CATALOG NUMBER: GLEON-AF-03-LED-E1-5MQ-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1572.4	1572.4	1572.4	1572.4	1572.4	1572.4	1572.4	1572.4	1572.4	1572.4	1572.4
2.5°	1566.5	1568.0	1568.0	1568.0	1567.3	1567.3	1565.8	1567.3	1566.5	1564.4	1565.1
5°	1553.5	1554.9	1554.9	1554.2	1556.4	1555.7	1553.5	1554.9	1554.2	1552.7	1553.5
7.5°	1534.6	1536.8	1536.8	1536.1	1538.2	1537.5	1536.1	1536.8	1536.8	1534.6	1534.6
10°	1513.6	1515.0	1515.0	1514.3	1518.0	1518.0	1517.2	1519.4	1520.1	1518.0	1516.5
12.5°	1494.0	1496.2	1496.2	1499.0	1502.7	1504.1	1507.7	1510.7	1513.6	1512.8	1510.0
15°	1482.4	1483.8	1486.8	1490.3	1496.2	1501.3	1507.0	1513.6	1519.4	1520.8	1516.5
17.5°	1475.1	1477.2	1481.6	1486.8	1494.7	1503.4	1512.1	1520.8	1528.8	1531.7	1526.7
20°	1472.9	1474.4	1478.8	1487.5	1498.3	1511.4	1523.7	1533.9	1544.8	1548.4	1544.8
22.5°	1477.2	1480.2	1485.2	1495.5	1510.0	1526.7	1541.2	1554.9	1568.7	1575.2	1570.1
25°	1496.9	1499.7	1506.3	1519.4	1535.3	1552.7	1569.4	1585.4	1597.7	1604.3	1600.6
27.5°	1533.2	1536.8	1544.8	1557.9	1575.2	1594.1	1612.3	1625.3	1635.5	1637.6	1633.2
30°	1587.6	1595.6	1605.0	1619.5	1639.8	1655.7	1674.0	1685.5	1697.9	1697.9	1694.2
32.5°	1672.5	1680.5	1690.6	1704.4	1720.4	1737.8	1753.7	1763.9	1777.0	1777.7	1769.0
35°	1799.5	1803.1	1811.7	1820.4	1835.0	1850.2	1864.0	1870.6	1881.4	1882.1	1874.1
37.5°	1967.0	1967.7	1973.6	1976.5	1989.5	2006.2	2019.3	2023.7	2033.8	2032.4	2024.4
40°	2162.2	2165.9	2168.0	2172.4	2186.1	2202.1	2215.9	2218.1	2229.0	2226.9	2216.6
42.5°	2387.9	2389.3	2401.7	2408.2	2421.3	2429.3	2446.7	2448.8	2461.9	2456.1	2444.5
45°	2641.2	2654.1	2665.8	2678.9	2692.6	2702.1	2715.8	2713.0	2721.7	2713.0	2706.4
47.5°	2907.4	2916.8	2942.9	2963.3	2985.8	2993.8	3013.3	3004.6	3013.3	3001.0	2998.9
50°	3200.5	3217.3	3239.8	3263.0	3286.9	3299.9	3325.4	3314.5	3326.1	3314.5	3307.9
52.5°	3489.4	3493.7	3543.0	3577.2	3610.5	3625.7	3641.0	3635.9	3636.6	3635.9	3629.3
55°	3763.6	3773.8	3823.1	3869.5	3927.6	3970.4	3996.6	3993.6	3987.1	3980.6	3969.7
57.5°	4072.7	4082.9	4139.5	4196.8	4262.8	4323.8	4376.7	4431.1	4452.2	4458.0	4434.1
60°	4490.7	4489.9	4565.4	4635.0	4729.4	4820.0	4936.1	5054.4	5190.1	5253.3	5169.8
62.5°	4915.8	4933.3	5042.1	5165.5	5359.9	5549.3	5763.3	5973.7	6188.5	6363.4	6177.6
65°	4865.1	4931.9	5093.6	5372.9	5732.1	6158.8	6620.2	7108.6	7549.7	7853.0	7512.8
67.5°	4216.4	4311.4	4476.1	4815.7	5264.8	5880.1	6655.1	7620.8	8743.3	9286.0	8613.5
70°	3056.2	3163.6	3336.3	3667.8	4112.6	4697.4	5539.1	6698.6	8184.6	8731.7	7990.9
72.5°	1520.8	1578.9	1685.5	1896.7	2233.3	2707.9	3471.2	4585.7	5900.5	6402.5	5725.6
75°	516.6	543.5	561.6	630.5	737.2	923.6	1303.1	2004.8	3058.3	3666.4	3014.8
77.5°	298.2	298.9	311.3	323.7	341.8	362.0	412.9	542.1	937.4	1331.5	970.1
80°	193.0	192.3	202.4	211.9	224.2	234.4	237.2	251.0	289.5	343.2	306.9
82.5°	100.1	112.4	134.9	147.3	170.5	174.8	169.1	164.0	173.4	179.9	184.3
85°	55.1	47.9	71.8	92.9	103.0	104.4	104.4	98.7	102.3	100.1	108.8
87.5°	25.4	23.2	28.3	45.7	48.6	41.3	43.6	38.5	27.6	26.8	30.5
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: P190801

CATALOG NUMBER: GLEON-AF-03-LED-E1-5MQ-800

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1572.4	1572.4	1572.4	1572.4	1572.4	1572.4	1572.4	1572.4
2.5°	1565.1	1565.8	1565.8	1568.0	1568.7	1570.1	1571.7	1572.4
5°	1552.7	1554.9	1553.5	1555.7	1555.7	1557.1	1557.1	1557.9
7.5°	1534.6	1536.8	1536.8	1536.8	1536.1	1538.2	1538.2	1538.2
10°	1515.7	1517.2	1516.5	1515.0	1513.6	1515.7	1515.0	1514.3
12.5°	1510.0	1506.3	1503.4	1502.0	1499.0	1499.7	1497.6	1497.6
15°	1513.6	1507.0	1502.0	1499.7	1496.9	1495.5	1494.0	1494.7
17.5°	1523.0	1515.0	1508.4	1504.9	1501.3	1499.0	1496.2	1496.9
20°	1539.6	1530.2	1520.8	1513.6	1507.0	1503.4	1501.3	1500.5
22.5°	1564.4	1550.6	1536.8	1525.9	1517.2	1512.1	1510.0	1508.4
25°	1592.6	1577.4	1561.4	1549.2	1540.5	1533.9	1529.5	1529.5
27.5°	1628.2	1615.9	1601.3	1586.9	1578.9	1572.4	1569.4	1568.0
30°	1687.7	1676.1	1664.4	1650.7	1640.5	1634.1	1628.9	1624.5
32.5°	1763.9	1754.5	1745.1	1734.9	1725.4	1716.7	1708.7	1705.2
35°	1871.3	1864.0	1857.5	1845.9	1842.2	1837.2	1832.8	1829.2
37.5°	2019.3	2016.4	2016.4	2004.1	2001.2	1998.9	1994.7	1995.4
40°	2213.8	2216.6	2213.1	2208.7	2206.5	2200.7	2200.7	2205.8
42.5°	2443.7	2446.0	2454.0	2446.7	2454.7	2447.4	2443.0	2446.7
45°	2710.8	2718.8	2734.8	2727.5	2732.5	2720.2	2705.0	2705.7
47.5°	3010.4	3017.7	3024.3	3019.1	3019.9	2999.6	2979.2	2974.1
50°	3321.7	3324.6	3328.3	3321.0	3322.4	3299.9	3276.7	3277.4
52.5°	3629.3	3643.1	3657.7	3638.1	3633.7	3608.4	3575.7	3562.6
55°	3981.3	4000.9	3984.2	3950.1	3916.0	3881.9	3839.0	3831.8
57.5°	4415.2	4381.8	4329.5	4265.0	4217.8	4170.0	4126.4	4108.3
60°	5018.9	4893.4	4799.1	4703.2	4643.1	4584.3	4527.0	4518.3
62.5°	5872.1	5655.2	5467.3	5269.2	5107.4	4981.2	4880.3	4852.0
65°	6941.6	6428.7	5983.9	5568.8	5208.3	4936.1	4764.9	4689.4
67.5°	7401.7	6388.7	5626.2	5037.0	4565.4	4235.9	4051.0	3958.8
70°	6504.1	5298.3	4468.9	3879.0	3449.4	3098.2	2930.7	2831.9
72.5°	4474.7	3370.3	2665.1	2175.3	1832.1	1538.2	1422.1	1413.4
75°	2009.2	1330.8	917.2	706.8	594.9	517.3	493.4	475.3
77.5°	562.3	415.7	370.8	346.8	323.7	296.8	286.6	288.8
80°	273.5	258.3	248.2	232.9	211.9	189.3	179.2	183.6
82.5°	181.4	179.2	185.8	174.8	144.4	122.7	103.0	94.3
85°	110.3	111.7	114.0	114.7	97.2	68.2	46.4	52.3
87.5°	43.6	50.0	54.4	56.6	53.0	32.6	26.1	26.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)