

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: P269509

Luminaire Tested: **GLEON-AF-07-LED-E1-T3R-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269509  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-07-LED-E1-T3R-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37400.3 lumens  
Efficiency: N/A  
Efficacy: 95.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B3 - U0 - G5

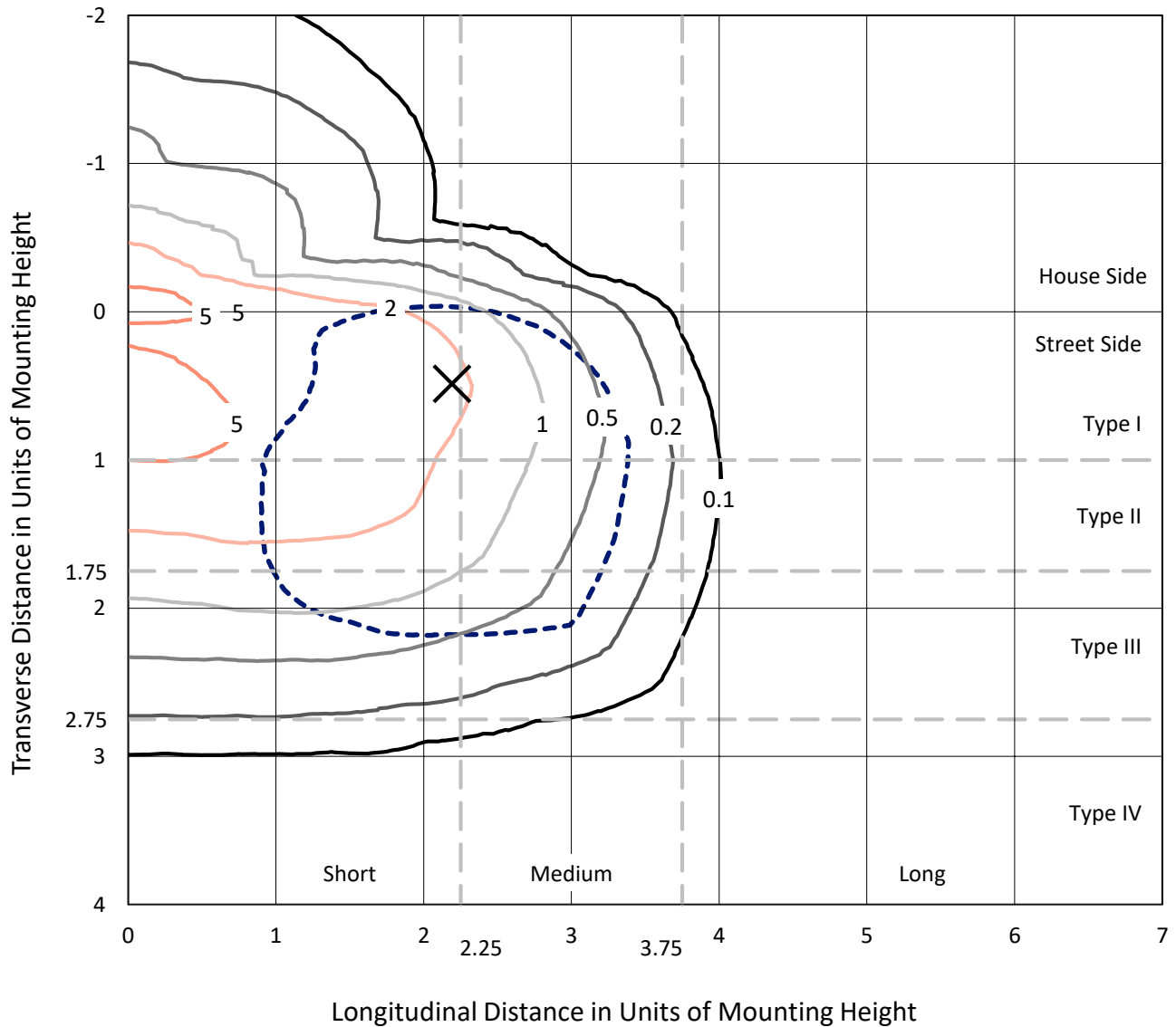
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P269509  
 CATALOG NUMBER: GLEON-AF-07-LED-E1-T3R-7027

### Iso-Footcandle Lines of Horizontal Illumination

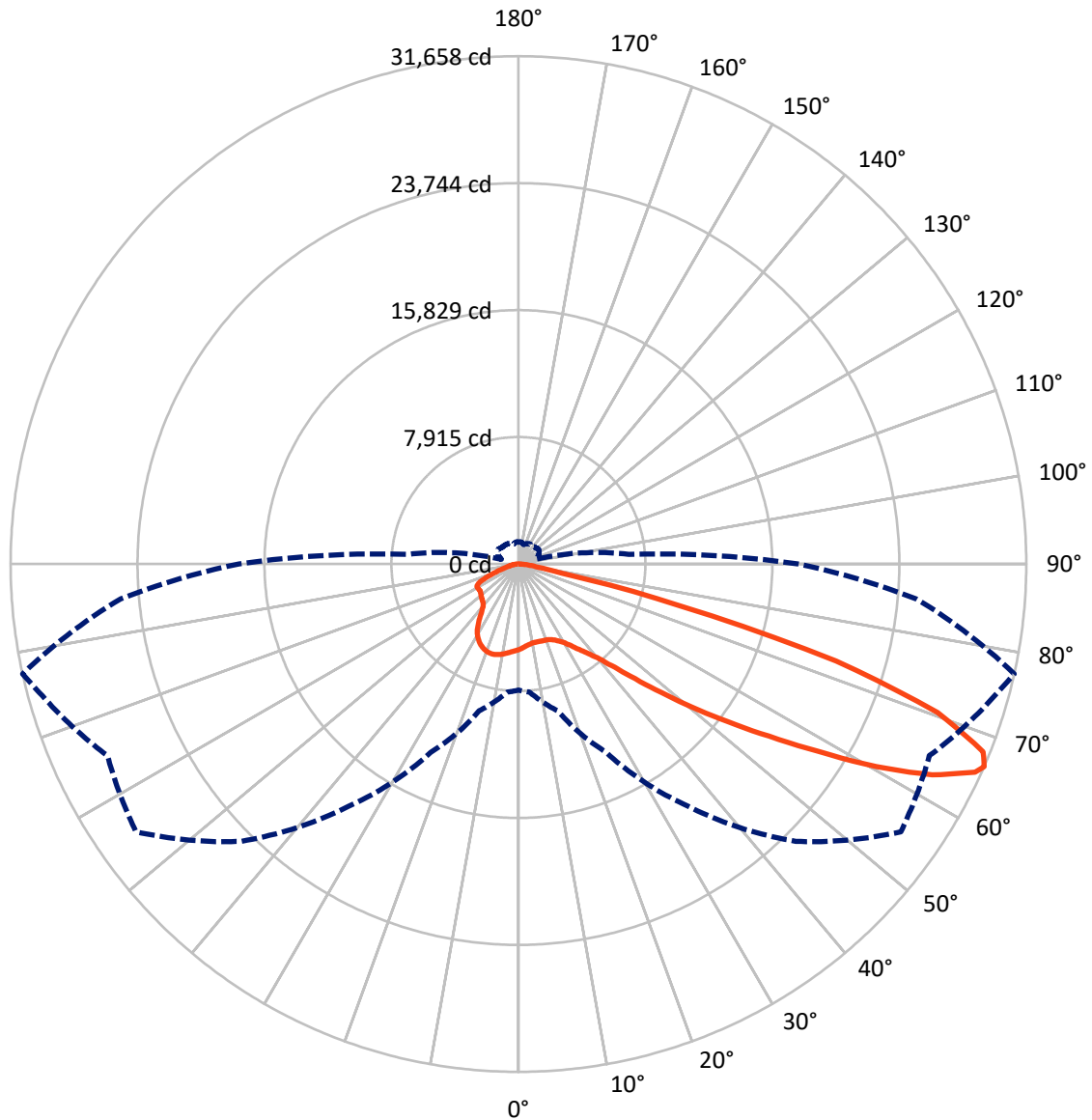
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.3 fc  
 Type III - Short - Full Cutoff

REPORT NUMBER: P269509  
CATALOG NUMBER: GLEON-AF-07-LED-E1-T3R-7027

### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P269509

CATALOG NUMBER: GLEON-AF-07-LED-E1-T3R-7027

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6389.6	0.0	6389.6
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	31010.7	0.0	31010.7
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	37400.3	0.0	37400.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	476.2	1.3
10°-20°	1343.3	3.6
20°-30°	2292.6	6.1
30°-40°	3670.1	9.8
40°-50°	5669.9	15.2
50°-60°	8041.9	21.5
60°-70°	10757.9	28.8
70°-80°	4672.0	12.5
80°-90°	476.4	1.3
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°	37400.3	100.0
0°-180°	37400.3	100.0



REPORT NUMBER: P269509

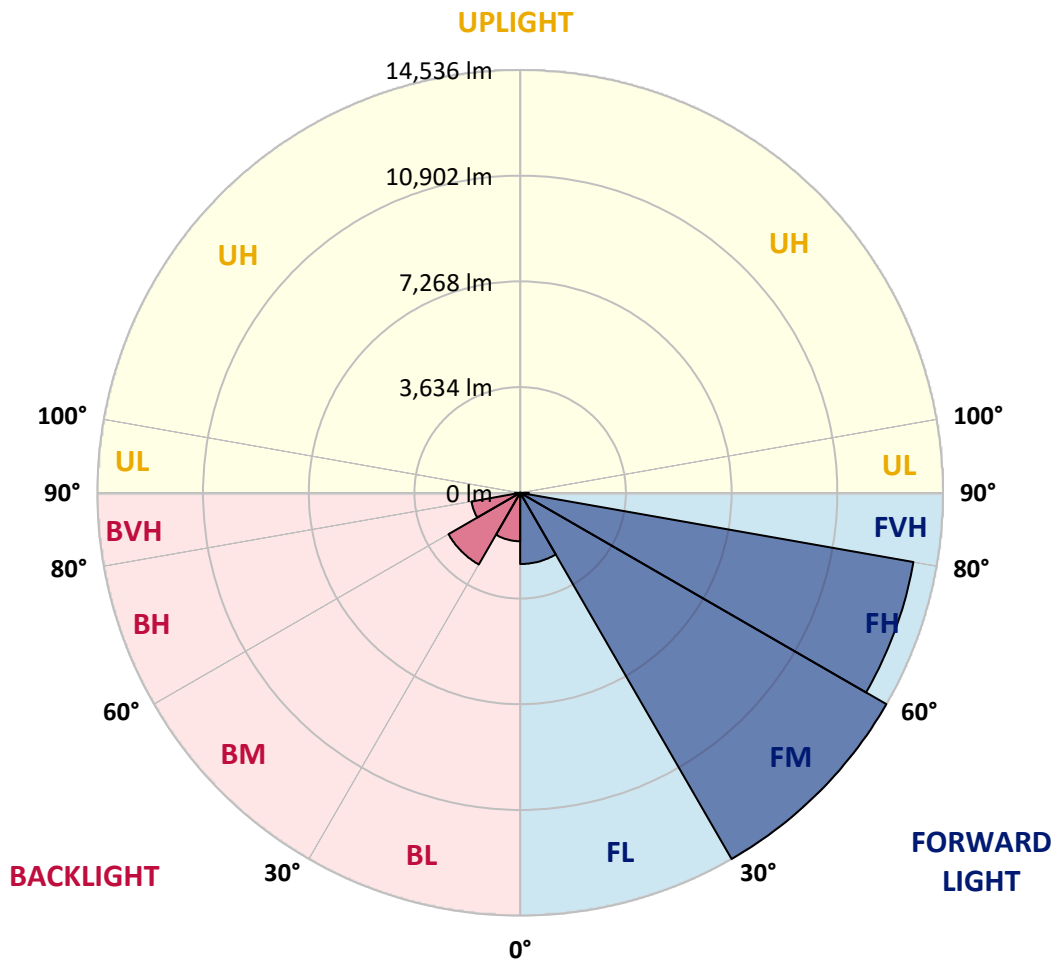
CATALOG NUMBER: GLEON-AF-07-LED-E1-T3R-7027

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2448.0	6.5			
FM	(30°-60°)	14535.7	38.9			
FH	(60°-80°)	13728.2	36.7			G5
FVH	(80°-90°)	298.8	0.8			G3/500
BL	(0°-30°)	1664.1	4.4	B3/2500		
BM	(30°-60°)	2846.2	7.6	B3/5000		
BH	(60°-80°)	1701.7	4.5	B3/2500		G3/2500
BVH	(80°-90°)	177.6	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short





REPORT NUMBER: P269509

CATALOG NUMBER: GLEON-AF-07-LED-E1-T3R-7027

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	5329.7	5329.7	5329.7	5329.7	5329.7	5329.7	5329.7	5329.7	5329.7	5329.7	5329.7
2.5°	4714.8	4746.6	4773.1	4797.8	4847.3	4928.6	5022.2	5098.2	5207.8	5229.0	5287.3
5°	4281.9	4281.9	4303.1	4340.2	4407.3	4529.3	4656.5	4826.1	5064.6	5121.1	5276.7
7.5°	4071.5	4073.3	4085.6	4117.4	4175.9	4287.2	4426.7	4626.5	4949.8	5043.4	5308.5
10°	4149.4	4131.7	4105.1	4089.2	4098.0	4163.5	4296.0	4518.7	4879.1	4999.2	5379.2
12.5°	4584.1	4550.5	4458.5	4336.6	4220.0	4172.3	4250.1	4467.4	4849.1	4988.6	5472.8
15°	5294.4	5280.2	5108.8	4856.1	4573.5	4336.6	4283.6	4447.9	4852.6	5001.0	5584.3
17.5°	6185.0	6165.5	5939.5	5571.8	5110.5	4649.4	4402.0	4463.8	4865.0	5022.2	5692.0
20°	7084.6	7024.4	6780.5	6342.4	5750.3	5075.2	4598.2	4504.6	4880.9	5045.2	5805.0
22.5°	7756.1	7706.5	7487.5	7061.5	6379.5	5568.4	4861.4	4575.2	4932.1	5112.3	5944.8
25°	8346.2	8349.7	8132.4	7720.8	7015.7	6091.3	5200.7	4764.3	5062.8	5250.2	6135.6
27.5°	9076.0	9033.6	8830.5	8422.1	7644.7	6619.7	5610.8	5024.0	5257.3	5446.3	6386.5
30°	9949.1	9919.1	9684.0	9221.0	8342.6	7187.0	6079.0	5326.2	5508.1	5704.3	6715.2
32.5°	10975.9	10961.7	10717.8	10122.2	9148.6	7855.0	6628.6	5725.5	5882.8	6086.0	7187.0
35°	12180.9	12182.8	11894.6	11179.0	10030.4	8632.5	7252.3	6239.7	6338.8	6550.8	7749.0
37.5°	12923.1	13013.2	12905.5	12175.6	11028.9	9501.9	8061.7	6921.9	6858.3	7072.1	8351.5
40°	13082.1	13191.8	13532.8	13161.7	12145.7	10459.8	8779.1	7577.6	7498.1	7759.6	9127.3
42.5°	12859.5	13011.5	13732.5	13994.1	13331.3	11640.1	9744.0	8551.2	8450.5	8802.2	10092.2
45°	12726.9	12840.2	13674.2	14427.0	14359.9	12974.4	10972.3	9774.1	9737.0	10198.2	11205.5
47.5°	12497.3	12599.7	13402.1	14527.7	14964.2	14197.4	12447.9	11269.1	11341.6	11945.9	12461.9
50°	12620.9	12663.3	13098.1	14271.6	15139.1	15093.2	14096.6	13000.9	13248.4	14002.9	13884.6
52.5°	12603.3	12712.9	13062.8	13851.0	15162.1	15646.4	15720.6	14932.4	15453.7	16319.7	15462.5
55°	10189.4	10390.9	12647.4	13744.8	15243.5	16188.8	17166.2	16968.2	17940.1	18949.1	17243.9
57.5°	9729.9	9857.1	11108.4	13967.6	15674.6	17224.5	18774.1	19208.9	20834.7	22006.3	19413.9
60°	9639.8	9797.0	11092.5	14239.8	16549.4	18912.0	21158.0	21921.5	24356.6	25639.6	21930.3
62.5°	9358.8	9528.5	10988.2	14204.4	17791.7	21246.4	24210.0	24805.4	27696.5	28944.2	24035.1
65°	8468.2	8627.2	10138.1	13633.5	18629.3	23738.2	27822.0	27449.1	30333.2	31271.4	25084.7
66°	7858.6	8014.0	9468.3	12962.1	18434.8	24444.9	29101.4	28267.3	30923.3	31658.4	24879.6
67.5°	6743.4	6865.3	8167.7	11458.2	17401.2	24642.9	30177.7	28882.3	30985.1	31244.9	23708.1
70°	4260.7	4296.0	5308.5	7909.8	13172.3	21371.9	28539.5	27355.5	28429.9	27726.5	19875.1
72.5°	1848.4	1836.0	2548.2	4023.8	7457.4	14340.5	23086.0	22571.8	22301.4	20696.9	13912.8
75°	1028.5	1042.7	1323.7	1867.8	3030.6	7043.9	15102.0	14451.8	12202.1	10412.1	6308.7
77.5°	825.3	844.6	1097.4	1325.4	1360.8	2456.3	7066.8	5750.3	3461.9	2778.0	1753.0
80°	652.1	687.5	957.9	1032.1	917.2	1012.6	2283.1	1825.4	1369.6	1256.5	908.4
82.5°	515.9	540.8	821.7	781.0	641.5	682.2	1093.9	1065.6	890.6	811.1	524.8
85°	371.1	417.1	675.0	588.5	420.5	459.5	726.3	696.2	510.6	417.1	231.6
87.5°	152.0	197.9	477.1	390.6	235.0	213.8	362.2	341.0	242.2	176.6	114.9
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: P269509

CATALOG NUMBER: GLEON-AF-07-LED-E1-T3R-7027

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5329.7	5329.7	5329.7	5329.7	5329.7	5329.7	5329.7	5329.7	5329.7	5329.7	5329.7
2.5°	5324.4	5366.8	5421.6	5455.1	5472.8	5485.2	5504.6	5502.8	5508.1	5509.9	5517.0
5°	5359.7	5430.4	5509.9	5531.1	5531.1	5511.7	5492.2	5460.4	5448.1	5444.5	5448.1
7.5°	5451.6	5529.3	5598.3	5573.7	5520.5	5442.8	5342.1	5253.7	5206.0	5190.0	5186.5
10°	5568.4	5661.9	5690.3	5596.6	5441.0	5253.7	5054.0	4909.1	4826.1	4803.1	4796.1
12.5°	5709.6	5798.0	5759.2	5561.2	5273.2	4971.0	4695.4	4463.8	4290.7	4235.9	4232.4
15°	5865.2	5934.2	5798.0	5451.6	5022.2	4577.0	4085.6	3686.3	3470.7	3401.7	3396.4
17.5°	6010.1	6045.5	5775.1	5260.8	4653.0	3931.9	3279.8	2972.3	2898.1	2915.8	2919.3
20°	6133.7	6133.7	5697.3	4986.9	4071.5	3081.9	2670.1	2664.8	2717.9	2770.9	2781.5
22.5°	6269.8	6188.6	5561.2	4600.0	3248.0	2521.7	2461.6	2511.1	2571.2	2629.5	2638.3
25°	6437.8	6232.7	5372.1	4013.2	2553.5	2290.1	2313.1	2353.9	2383.9	2421.0	2426.3
27.5°	6625.0	6289.4	5122.9	3205.6	2215.9	2145.3	2162.9	2177.1	2173.5	2187.7	2191.2
30°	6849.4	6354.7	4781.9	2505.8	2076.4	2021.6	1989.8	1977.4	1977.4	2000.4	2009.2
32.5°	7149.9	6451.8	4292.5	2147.0	2009.2	1933.2	1830.7	1784.8	1802.4	1880.2	1897.8
35°	7480.4	6556.1	3629.7	2025.1	1995.1	1892.5	1733.5	1648.7	1650.5	1722.9	1745.9
37.5°	7840.9	6688.7	2903.4	2002.2	2026.9	1894.3	1682.3	1565.7	1518.0	1518.0	1526.8
40°	8302.0	6824.8	2350.3	2018.1	2094.0	1915.5	1655.8	1500.3	1366.1	1369.6	1376.7
42.5°	8902.9	6941.4	2053.4	2051.6	2175.3	1943.8	1654.0	1413.8	1297.2	1376.7	1449.1
45°	9570.9	6999.8	1922.6	2081.7	2240.7	1961.4	1625.8	1399.6	1306.0	1542.7	1680.5
47.5°	10339.6	6966.0	1850.1	2092.3	2256.6	1961.4	1594.0	1433.2	1367.8	1786.5	1947.3
50°	11182.6	6868.9	1779.5	2071.1	2251.3	1957.9	1624.0	1466.8	1390.8	1828.9	1940.2
52.5°	12173.9	6787.7	1705.3	2025.1	2214.2	1938.5	1659.3	1452.6	1318.4	1662.9	1740.6
55°	13304.8	6810.6	1622.2	1959.7	2155.9	1901.4	1647.0	1396.1	1242.3	1465.0	1512.7
57.5°	14750.3	7084.6	1523.3	1876.6	2076.4	1839.5	1602.8	1369.6	1219.3	1329.0	1357.2
60°	16363.9	7561.7	1399.6	1793.6	1977.4	1740.6	1569.2	1382.0	1229.9	1318.4	1332.5
62.5°	17547.9	7839.1	1293.6	1671.7	1843.1	1631.1	1526.8	1397.9	1258.3	1355.5	1351.9
65°	17869.4	7383.2	1161.0	1493.3	1661.1	1516.2	1473.8	1415.5	1270.7	1385.5	1369.6
66°	17418.9	6891.8	1102.7	1410.2	1569.2	1459.7	1447.3	1413.8	1265.4	1389.0	1362.5
67.5°	16325.0	5884.5	1002.0	1288.3	1422.6	1374.9	1404.9	1397.9	1251.1	1385.5	1348.4
70°	13313.7	4015.0	857.1	1072.7	1184.0	1210.5	1323.7	1341.3	1205.2	1323.7	1242.3
72.5°	9302.3	2445.7	758.1	832.3	957.9	1032.1	1212.3	1263.6	1143.4	1155.7	1078.0
75°	4495.7	1298.9	687.5	645.1	743.9	862.4	1078.0	1157.5	1046.2	966.7	938.4
77.5°	1401.4	793.5	583.2	519.5	583.2	696.2	901.3	1014.4	931.4	809.4	798.8
80°	752.8	583.2	448.9	417.1	461.2	546.1	708.7	846.5	800.5	726.3	648.5
82.5°	496.6	378.1	332.3	323.4	351.6	417.1	526.5	701.5	701.5	622.0	452.3
85°	256.2	231.6	228.0	228.0	245.6	277.4	358.8	540.8	576.2	328.7	272.1
87.5°	127.2	132.5	123.6	128.9	137.8	136.1	171.3	272.1	325.1	199.8	166.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)