

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: P269432

Luminaire Tested: **GLEON-AF-06-LED-E1-T3R-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269432
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-06-LED-E1-T3R-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34691.4 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 382
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

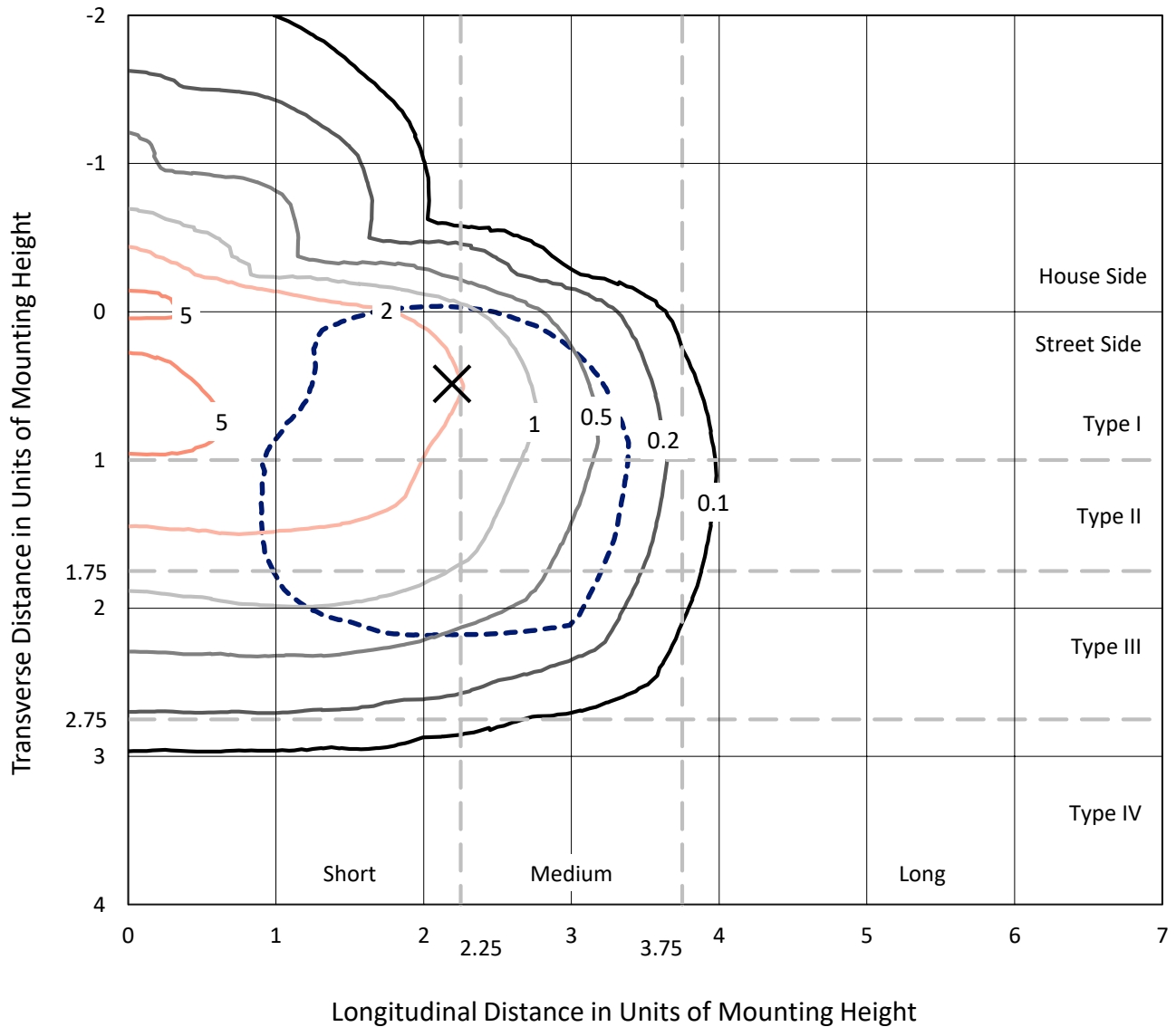


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

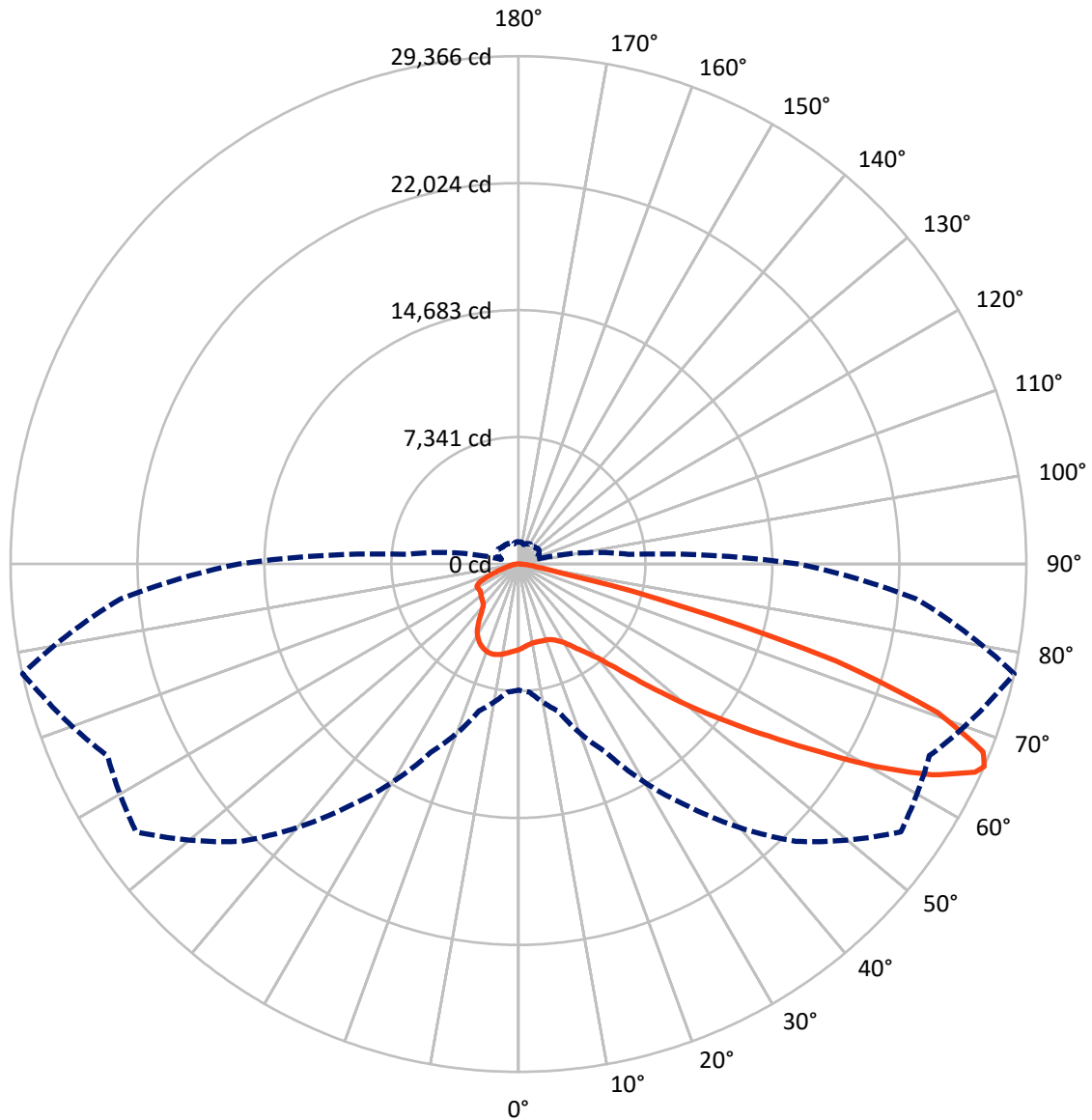


Based on 30 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5926.8	0.0	5926.8
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	28764.6	0.0	28764.6
	% Fixture	82.9	0.0	82.9
Total	Lumens	34691.4	0.0	34691.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.7	1.3
10°-20°	1246.0	3.6
20°-30°	2126.6	6.1
30°-40°	3404.3	9.8
40°-50°	5259.3	15.2
50°-60°	7459.4	21.5
60°-70°	9978.7	28.8
70°-80°	4333.6	12.5
80°-90°	441.9	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°	34691.4	100.0
0°-180°	34691.4	100.0



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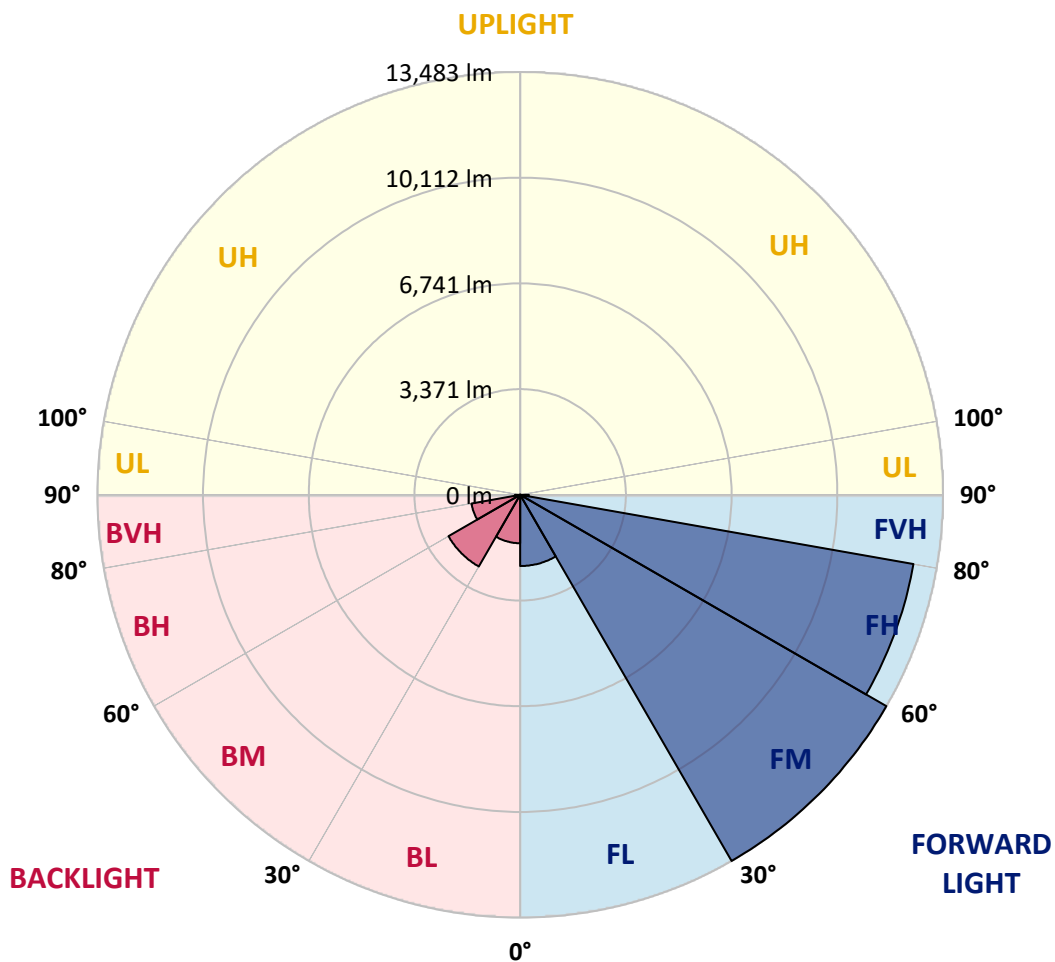
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2270.7	6.5			
FM (30°-60°)	13482.9	38.9			
FH (60°-80°)	12733.9	36.7			G5
FVH (80°-90°)	277.1	0.8			G3/500
BL (0°-30°)	1543.6	4.4	B3/2500		
BM (30°-60°)	2640.1	7.6	B3/5000		
BH (60°-80°)	1578.4	4.5	B3/2500		G3/2500
BVH (80°-90°)	164.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	4943.7	4943.7	4943.7	4943.7	4943.7	4943.7	4943.7	4943.7	4943.7	4943.7	4943.7
2.5°	4373.3	4402.8	4427.3	4450.4	4496.1	4571.7	4658.5	4728.9	4830.5	4850.3	4904.3
5°	3971.6	3971.6	3991.3	4025.8	4088.0	4201.2	4319.2	4476.6	4697.9	4750.2	4894.5
7.5°	3776.7	3778.2	3789.7	3819.2	3873.3	3976.5	4106.2	4291.4	4591.2	4678.2	4924.0
10°	3848.8	3832.3	3807.7	3793.1	3801.2	3861.9	3984.8	4191.3	4525.8	4637.2	4989.5
12.5°	4251.9	4220.9	4135.5	4022.5	3914.4	3870.1	3942.2	4143.8	4497.9	4627.3	5076.4
15°	4910.9	4897.7	4738.7	4504.5	4242.2	4022.5	3973.4	4125.7	4501.1	4638.8	5179.7
17.5°	5737.0	5719.0	5509.2	5168.3	4740.4	4312.7	4083.2	4140.5	4512.5	4658.5	5279.7
20°	6571.5	6515.6	6289.5	5882.9	5333.9	4707.7	4265.2	4178.1	4527.4	4679.8	5384.6
22.5°	7194.3	7148.4	6945.1	6550.1	5917.3	5165.0	4509.3	4243.8	4574.9	4742.2	5514.2
25°	7741.8	7744.9	7543.3	7161.5	6507.4	5650.2	4824.1	4419.1	4696.2	4869.9	5691.1
27.5°	8418.7	8379.4	8190.8	7812.2	7091.0	6140.3	5204.3	4660.0	4876.4	5051.9	5924.0
30°	9228.5	9200.6	8982.6	8553.1	7738.4	6666.4	5638.8	4940.4	5109.3	5291.1	6228.8
32.5°	10180.9	10167.6	9941.5	9389.1	8485.8	7286.1	6148.4	5310.9	5456.8	5645.3	6666.4
35°	11298.7	11300.4	11033.2	10369.3	9303.8	8007.3	6727.0	5787.9	5879.6	6076.3	7187.7
37.5°	11987.2	12070.7	11970.8	11293.9	10230.0	8813.7	7477.9	6420.5	6361.5	6560.0	7746.7
40°	12134.7	12236.4	12552.6	12208.4	11266.0	9702.1	8143.3	7028.7	6954.9	7197.5	8466.3
42.5°	11928.1	12069.1	12737.8	12980.5	12365.8	10797.1	9038.2	7931.9	7838.4	8164.6	9361.1
45°	11805.2	11910.1	12683.8	13382.1	13319.8	12034.8	10177.5	9066.1	9031.7	9459.6	10393.8
47.5°	11592.1	11687.2	12431.4	13475.6	13880.4	13169.1	11546.3	10452.9	10520.1	11080.8	11559.3
50°	11706.8	11746.1	12149.4	13237.9	14042.7	14000.1	13075.5	12059.2	12288.8	12988.7	12878.8
52.5°	11690.5	11792.1	12116.7	12847.6	14064.0	14513.0	14581.9	13850.8	14334.4	15137.6	14342.6
55°	9451.3	9638.3	11731.4	12749.4	14139.3	15016.2	15922.7	15739.2	16640.7	17576.6	15995.0
57.5°	9025.2	9143.2	10303.6	12955.9	14539.2	15976.8	17414.5	17817.6	19325.6	20412.5	18007.8
60°	8941.5	9087.4	10288.9	13208.3	15350.6	17542.2	19625.6	20333.8	22592.6	23782.4	20341.8
62.5°	8681.0	8838.3	10192.3	13175.5	16503.0	19707.6	22456.4	23008.8	25690.4	26847.7	22294.1
65°	7854.8	8002.3	9403.8	12646.1	17279.9	22018.7	25806.9	25461.0	28136.2	29006.5	23267.8
66°	7289.3	7433.6	8782.5	12023.3	17099.6	22674.5	26993.6	26220.0	28683.6	29365.6	23077.6
67.5°	6255.0	6368.2	7576.1	10628.2	16140.7	22858.0	27991.8	26790.4	28741.0	28981.9	21990.9
70°	3952.1	3984.8	4924.0	7336.8	12218.2	19823.9	26472.4	25374.2	26370.7	25718.4	18435.6
72.5°	1714.5	1703.0	2363.7	3732.4	6917.3	13301.7	21413.9	20936.9	20686.2	19197.8	12905.1
75°	954.0	967.0	1227.8	1732.7	2811.2	6533.7	14008.2	13405.0	11318.4	9657.9	5851.7
77.5°	765.4	783.5	1017.9	1229.4	1262.2	2278.5	6555.0	5333.9	3211.1	2576.8	1626.0
80°	604.9	637.6	888.5	957.2	850.8	939.3	2117.8	1693.2	1270.4	1165.5	842.5
82.5°	478.6	501.6	762.2	724.6	594.9	632.8	1014.6	988.5	826.1	752.4	486.8
85°	344.2	386.8	626.2	545.8	390.1	426.2	673.6	645.8	473.8	386.8	214.8
87.5°	140.9	183.6	442.5	362.2	218.0	198.3	336.1	316.4	224.5	163.9	106.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4943.7	4943.7	4943.7	4943.7	4943.7	4943.7	4943.7	4943.7	4943.7	4943.7	4943.7
2.5°	4938.8	4978.0	5028.9	5060.1	5076.4	5087.9	5106.0	5104.3	5109.3	5110.8	5117.5
5°	4971.6	5037.2	5110.8	5130.6	5130.6	5112.6	5094.5	5065.1	5053.5	5050.2	5053.5
7.5°	5056.7	5129.0	5192.8	5169.8	5120.7	5048.7	4955.2	4873.2	4829.0	4814.1	4811.0
10°	5165.0	5251.9	5278.1	5191.2	5046.9	4873.2	4688.0	4553.6	4476.6	4455.2	4448.6
12.5°	5296.0	5378.1	5342.0	5158.4	4891.2	4610.9	4355.3	4140.5	3979.9	3929.0	3925.9
15°	5440.3	5504.3	5378.1	5056.7	4658.5	4245.4	3789.7	3419.3	3219.3	3155.3	3150.4
17.5°	5574.8	5607.6	5356.8	4879.8	4315.8	3647.1	3042.3	2757.1	2688.2	2704.5	2707.9
20°	5689.5	5689.5	5284.6	4625.7	3776.7	2858.6	2476.7	2471.9	2521.1	2570.2	2580.0
22.5°	5815.7	5740.3	5158.4	4266.7	3012.7	2339.0	2283.3	2329.2	2385.0	2439.1	2447.3
25°	5971.5	5781.3	4983.1	3722.5	2368.7	2124.3	2145.6	2183.4	2211.2	2245.7	2250.6
27.5°	6145.1	5833.8	4751.9	2973.4	2055.5	1989.9	2006.4	2019.4	2016.2	2029.4	2032.5
30°	6353.4	5894.4	4435.6	2324.4	1926.0	1875.2	1845.7	1834.2	1834.2	1855.4	1863.8
32.5°	6632.0	5984.6	3981.5	1991.6	1863.8	1793.2	1698.2	1655.5	1671.9	1744.1	1760.5
35°	6938.6	6081.3	3366.8	1878.4	1850.6	1755.6	1608.1	1529.4	1531.0	1598.2	1619.5
37.5°	7272.9	6204.2	2693.1	1857.2	1880.2	1757.2	1560.4	1452.3	1408.1	1408.1	1416.3
40°	7700.8	6330.4	2180.0	1871.9	1942.3	1776.8	1535.9	1391.7	1267.1	1270.4	1276.9
42.5°	8258.1	6438.6	1904.6	1903.1	2017.9	1803.1	1534.2	1311.3	1203.1	1276.9	1344.1
45°	8877.7	6492.7	1783.5	1930.9	2078.5	1819.4	1508.1	1298.2	1211.4	1431.0	1558.7
47.5°	9590.8	6461.6	1716.2	1940.8	2093.2	1819.4	1478.5	1329.3	1268.6	1657.3	1806.3
50°	10372.5	6371.4	1650.6	1921.0	2088.3	1816.3	1506.4	1360.6	1290.1	1696.4	1799.8
52.5°	11292.1	6296.0	1581.7	1878.4	2053.9	1798.1	1539.2	1347.4	1222.9	1542.4	1614.6
55°	12341.3	6317.3	1504.8	1817.8	1999.7	1763.7	1527.7	1294.9	1152.3	1358.9	1403.2
57.5°	13682.1	6571.5	1412.9	1740.7	1926.0	1706.4	1486.8	1270.4	1131.1	1232.7	1258.9
60°	15178.7	7014.0	1298.2	1663.8	1834.2	1614.6	1455.6	1281.8	1140.8	1222.9	1235.9
62.5°	16276.7	7271.3	1199.9	1550.7	1709.7	1512.9	1416.3	1296.6	1167.1	1257.3	1253.9
65°	16575.2	6848.4	1076.9	1385.0	1540.9	1406.3	1367.0	1313.0	1178.5	1285.0	1270.4
66°	16157.2	6392.7	1022.8	1308.0	1455.6	1353.9	1342.4	1311.3	1173.6	1288.3	1263.7
67.5°	15142.5	5458.5	929.3	1194.9	1319.5	1275.2	1303.1	1296.6	1160.5	1285.0	1250.7
70°	12349.4	3724.2	795.0	995.0	1098.3	1122.8	1227.8	1244.2	1117.9	1227.8	1152.3
72.5°	8628.5	2268.6	703.3	772.1	888.5	957.2	1124.5	1172.0	1060.4	1071.9	1000.0
75°	4170.0	1204.7	637.6	598.4	690.1	799.9	1000.0	1073.7	970.3	896.6	870.4
77.5°	1299.8	736.0	540.9	481.9	540.9	645.8	836.0	940.9	863.8	750.8	740.9
80°	698.3	540.9	416.4	386.8	427.9	506.6	657.3	785.2	742.4	673.6	601.5
82.5°	460.7	350.8	308.2	299.9	326.2	386.8	488.5	650.7	650.7	577.0	419.6
85°	237.7	214.8	211.5	211.5	227.8	257.4	332.7	501.6	534.3	304.9	252.5
87.5°	117.9	123.0	114.8	119.7	127.9	126.2	159.0	252.5	301.7	185.2	154.1
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)