

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: P269750

Luminaire Tested: **GLEON-AF-10-LED-E1-T3R-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269750
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-10-LED-E1-T3R-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34482.4 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 323
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

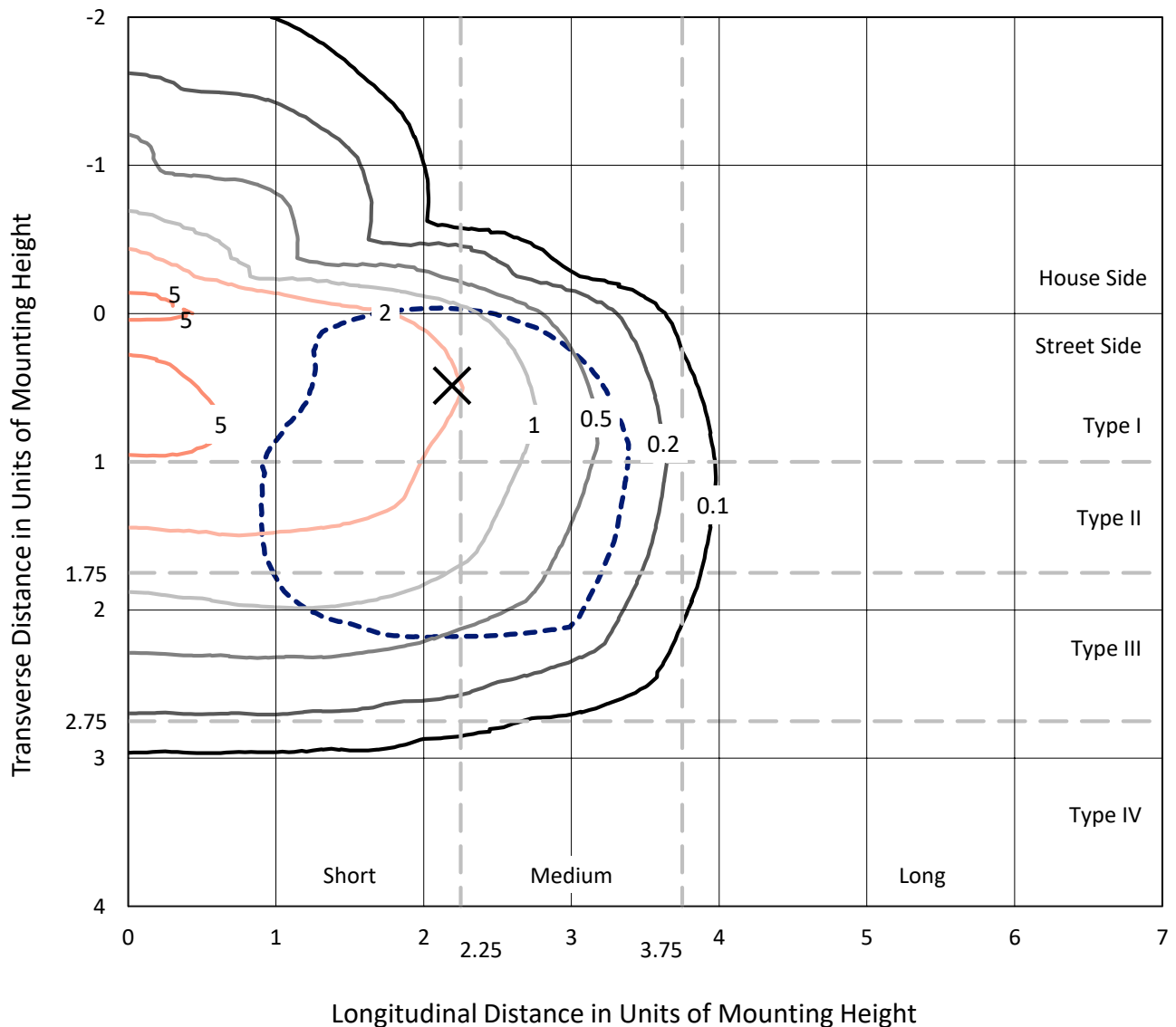


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Iso-Footcandle Lines of Horizontal Illumination

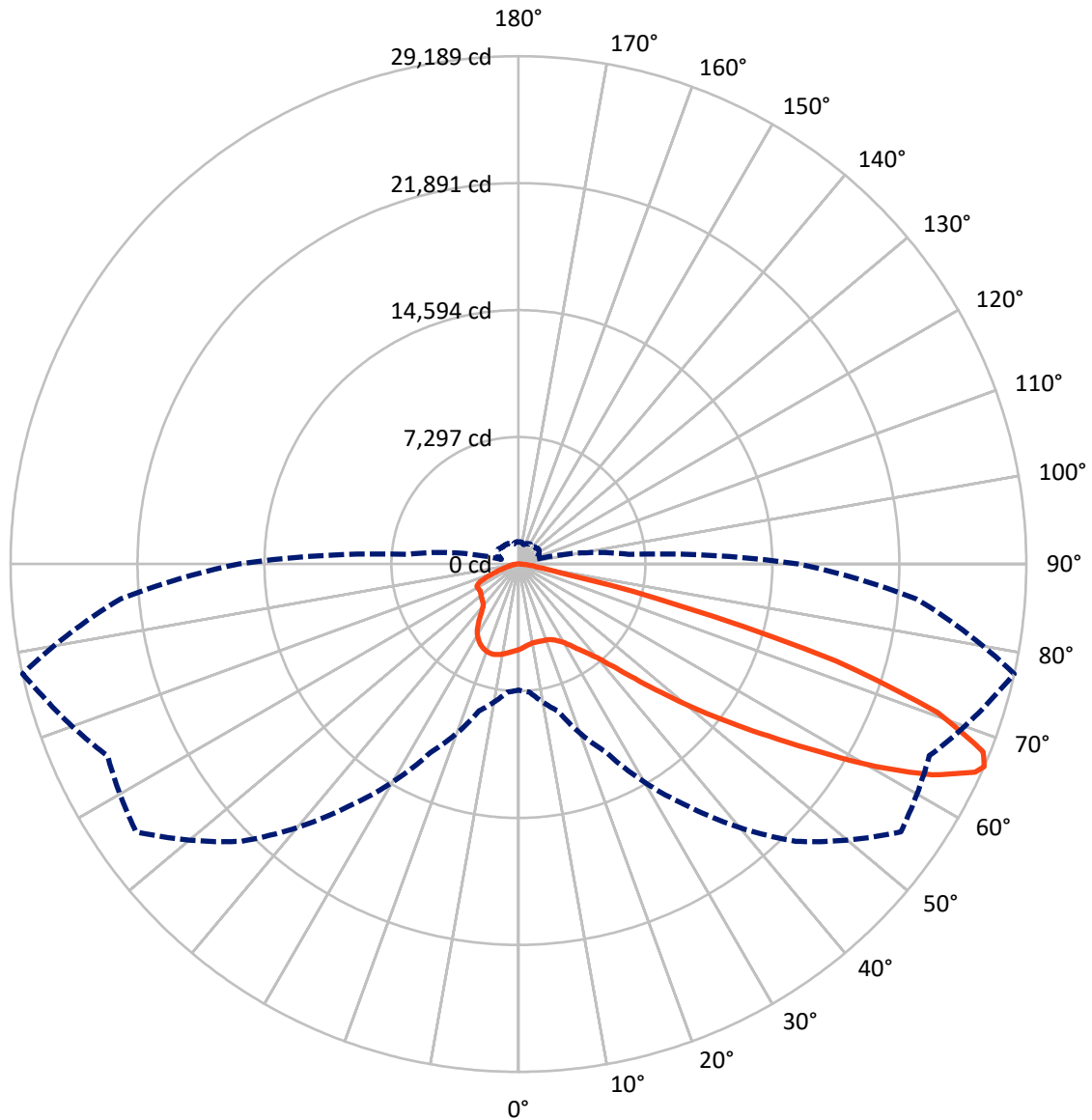
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 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	5891.1	0.0	5891.1
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	28591.3	0.0	28591.3
	% Fixture	82.9	0.0	82.9
Total	Lumens	34482.4	0.0	34482.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.0	1.3
10°-20°	1238.5	3.6
20°-30°	2113.8	6.1
30°-40°	3383.7	9.8
40°-50°	5227.6	15.2
50°-60°	7414.5	21.5
60°-70°	9918.6	28.8
70°-80°	4307.4	12.5
80°-90°	439.2	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°	34482.4	100.0
0°-180°	34482.4	100.0



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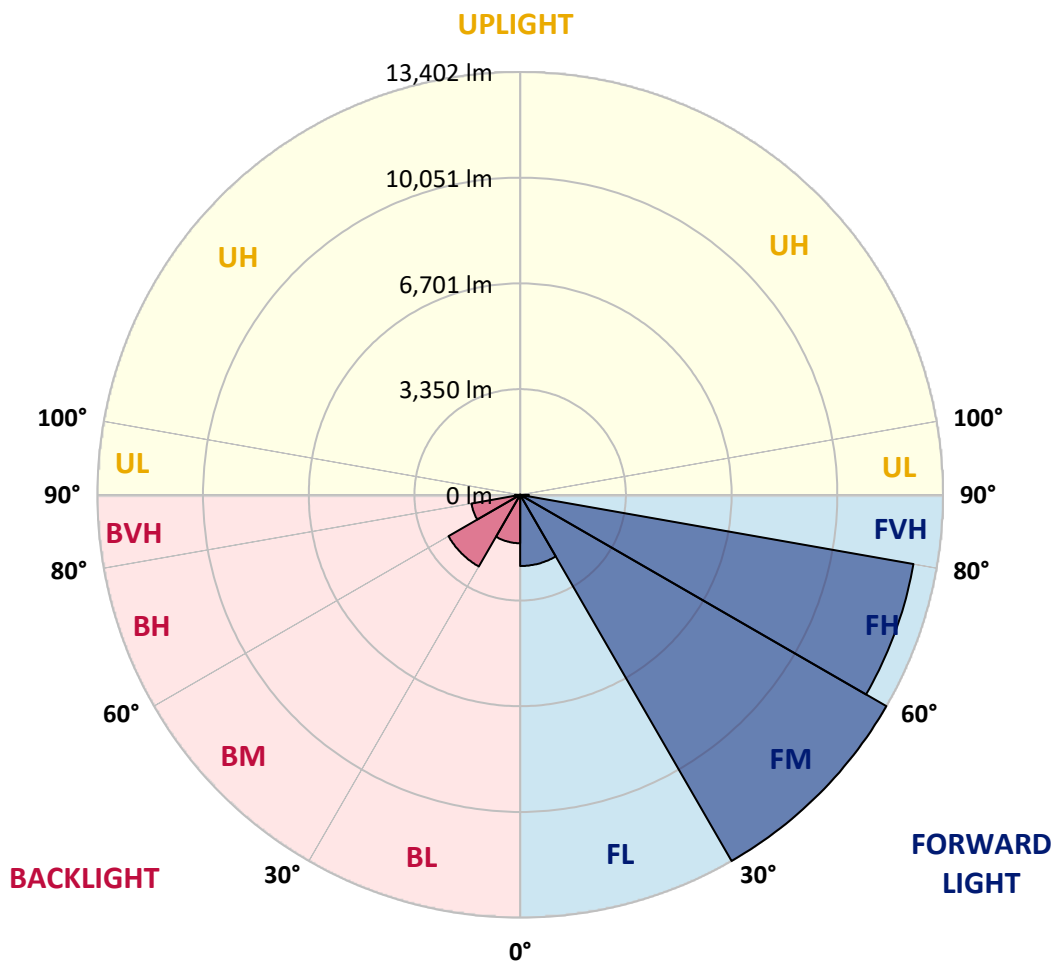
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2257.0	6.5			
FM (30°-60°)	13401.7	38.9			
FH (60°-80°)	12657.1	36.7			G5
FVH (80°-90°)	275.5	0.8			G3/500
BL (0°-30°)	1534.3	4.4	B3/2500		
BM (30°-60°)	2624.1	7.6	B3/5000		
BH (60°-80°)	1568.9	4.5	B3/2500		G3/2500
BVH (80°-90°)	163.8	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°	4913.9	4913.9	4913.9	4913.9	4913.9	4913.9	4913.9	4913.9	4913.9	4913.9	4913.9
2.5°	4346.9	4376.3	4400.6	4423.6	4469.1	4544.0	4630.5	4700.6	4801.5	4821.1	4874.8
5°	3947.7	3947.7	3967.3	4001.5	4063.5	4175.9	4293.2	4449.6	4669.5	4721.6	4865.0
7.5°	3753.8	3755.5	3767.0	3796.1	3850.0	3952.6	4081.3	4265.4	4563.6	4649.9	4894.3
10°	3825.5	3809.3	3784.7	3770.1	3778.4	3838.5	3960.7	4166.1	4498.4	4609.3	4959.5
12.5°	4226.3	4195.4	4110.6	3998.3	3890.6	3846.7	3918.3	4118.8	4470.8	4599.4	5045.9
15°	4881.3	4868.3	4710.3	4477.2	4216.6	3998.3	3949.4	4100.9	4474.0	4610.9	5148.5
17.5°	5702.5	5684.6	5476.0	5137.0	4711.9	4286.6	4058.5	4115.6	4485.3	4630.5	5247.9
20°	6531.8	6476.4	6251.6	5847.4	5301.6	4679.4	4239.5	4153.0	4500.1	4651.7	5352.2
22.5°	7150.9	7105.2	6903.2	6510.6	5881.7	5133.9	4482.2	4218.3	4547.3	4713.4	5480.9
25°	7695.2	7698.4	7498.0	7118.3	6468.2	5616.2	4795.0	4392.5	4668.0	4840.5	5656.8
27.5°	8368.0	8328.8	8141.5	7765.2	7048.2	6103.3	5173.0	4632.0	4847.2	5021.4	5888.2
30°	9172.9	9145.1	8928.4	8501.6	7691.8	6626.3	5604.7	4910.7	5078.5	5259.2	6191.3
32.5°	10119.4	10106.4	9881.5	9332.5	8434.7	7242.1	6111.3	5278.9	5423.8	5611.3	6626.3
35°	11230.6	11232.2	10966.7	10306.9	9247.8	7959.1	6686.5	5752.9	5844.3	6039.8	7144.4
37.5°	11914.8	11998.0	11898.6	11225.7	10168.4	8760.6	7432.8	6381.9	6323.2	6520.3	7700.0
40°	12061.5	12162.5	12477.0	12134.8	11198.0	9643.8	8094.3	6986.4	6913.0	7154.1	8415.2
42.5°	11856.3	11996.3	12661.2	12902.3	12291.2	10732.1	8983.8	7884.1	7791.2	8115.5	9304.9
45°	11734.1	11838.4	12607.4	13301.5	13239.5	11962.2	10116.3	9011.5	8977.3	9402.6	10331.2
47.5°	11522.3	11616.7	12356.5	13394.3	13796.7	13089.7	11476.7	10389.8	10456.7	11013.8	11489.7
50°	11636.4	11675.5	12076.3	13158.1	13958.0	13915.6	12996.8	11986.7	12214.8	12910.4	12801.2
52.5°	11620.0	11721.1	12043.7	12770.2	13979.2	14425.6	14494.1	13767.5	14248.0	15046.4	14256.2
55°	9394.5	9580.2	11660.8	12672.5	14054.2	14925.8	15826.8	15644.3	16540.4	17470.7	15898.6
57.5°	8970.8	9088.2	10241.7	12877.8	14451.8	15880.5	17309.4	17710.3	19209.1	20289.4	17899.3
60°	8887.7	9032.6	10226.9	13128.6	15258.3	17436.6	19507.4	20211.1	22456.4	23639.2	20219.3
62.5°	8628.7	8785.1	10130.8	13096.1	16403.6	19588.8	22321.2	22870.2	25535.7	26685.9	22159.7
65°	7807.4	7954.1	9347.1	12570.0	17175.9	21886.0	25651.5	25307.6	27966.6	28831.7	23127.7
66°	7245.4	7388.7	8729.6	11950.7	16996.7	22537.8	26830.9	26061.9	28510.8	29188.5	22938.6
67.5°	6217.3	6329.7	7530.5	10564.2	16043.5	22720.3	27823.3	26628.9	28567.8	28807.2	21858.4
70°	3928.2	3960.7	4894.3	7292.6	12144.6	19704.5	26312.9	25221.3	26211.9	25563.3	18324.4
72.5°	1704.3	1692.9	2349.3	3709.9	6875.5	13221.7	21284.9	20810.8	20561.5	19082.2	12827.3
75°	948.3	961.2	1220.3	1722.1	2794.2	6494.2	13923.8	13324.2	11250.2	9599.6	5816.5
77.5°	760.9	778.8	1011.9	1222.0	1254.6	2264.6	6515.4	5301.6	3191.8	2561.2	1616.2
80°	601.1	633.8	883.0	951.6	845.7	933.6	2105.0	1683.1	1262.7	1158.5	837.5
82.5°	475.7	498.6	757.6	720.1	591.4	629.0	1008.5	982.4	821.1	747.7	483.8
85°	342.2	384.6	622.3	542.5	387.8	423.6	669.6	641.8	470.8	384.6	213.4
87.5°	140.1	182.4	439.9	360.1	216.8	197.2	334.0	314.4	223.1	163.0	105.9
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°	4913.9	4913.9	4913.9	4913.9	4913.9	4913.9	4913.9	4913.9	4913.9	4913.9	4913.9
2.5°	4909.0	4948.1	4998.6	5029.6	5045.9	5057.3	5075.2	5073.5	5078.5	5080.1	5086.7
5°	4941.5	5006.8	5080.1	5099.7	5099.7	5081.7	5063.7	5034.6	5023.1	5019.8	5023.1
7.5°	5026.3	5098.1	5161.5	5138.8	5089.8	5018.2	4925.2	4843.8	4799.9	4785.2	4781.9
10°	5133.9	5220.2	5246.3	5160.0	5016.6	4843.8	4659.8	4526.1	4449.6	4428.4	4421.8
12.5°	5264.2	5345.6	5309.8	5127.3	4861.7	4583.2	4329.0	4115.6	3955.9	3905.4	3902.1
15°	5407.5	5471.0	5345.6	5026.3	4630.5	4219.9	3767.0	3398.6	3199.9	3136.3	3131.5
17.5°	5541.1	5573.8	5324.4	4850.4	4289.9	3625.1	3024.0	2740.5	2672.0	2688.3	2691.6
20°	5655.2	5655.2	5252.7	4597.9	3753.8	2841.5	2461.8	2457.0	2505.8	2554.7	2564.5
22.5°	5780.7	5705.8	5127.3	4241.0	2994.6	2325.0	2269.6	2315.2	2370.5	2424.3	2432.5
25°	5935.6	5746.5	4953.1	3700.1	2354.3	2111.6	2132.8	2170.1	2198.0	2232.1	2237.0
27.5°	6108.1	5798.6	4723.3	2955.6	2043.1	1978.0	1994.2	2007.3	2003.9	2017.1	2020.3
30°	6315.1	5858.8	4408.8	2310.4	1914.4	1864.0	1834.6	1823.2	1823.2	1844.3	1852.5
32.5°	6592.0	5948.4	3957.6	1979.5	1852.5	1782.4	1687.9	1645.5	1661.9	1733.5	1749.9
35°	6896.7	6044.6	3346.5	1867.1	1839.5	1745.0	1598.4	1520.1	1521.8	1588.6	1609.8
37.5°	7229.1	6166.9	2676.9	1845.9	1868.7	1746.6	1551.1	1443.5	1399.6	1399.6	1407.7
40°	7654.4	6292.3	2166.9	1860.6	1930.6	1766.2	1526.6	1383.3	1259.5	1262.7	1269.2
42.5°	8208.4	6399.9	1893.2	1891.7	2005.6	1792.2	1525.1	1303.4	1196.0	1269.2	1336.0
45°	8824.2	6453.6	1772.6	1919.3	2065.9	1808.5	1498.9	1290.3	1204.1	1422.3	1549.4
47.5°	9533.0	6422.6	1705.8	1929.1	2080.6	1808.5	1469.5	1321.3	1261.1	1647.2	1795.4
50°	10310.0	6333.1	1640.7	1909.4	2075.8	1805.2	1497.4	1352.3	1282.2	1686.3	1789.0
52.5°	11224.1	6258.0	1572.3	1867.1	2041.5	1787.3	1530.0	1339.3	1215.4	1533.1	1604.8
55°	12266.9	6279.2	1495.7	1806.9	1987.7	1753.1	1518.5	1287.1	1145.3	1350.7	1394.7
57.5°	13599.6	6531.8	1404.4	1730.2	1914.4	1696.1	1477.7	1262.7	1124.1	1225.2	1251.2
60°	15087.2	6971.7	1290.3	1653.7	1823.2	1604.8	1446.8	1274.1	1134.0	1215.4	1228.5
62.5°	16178.7	7227.5	1192.6	1541.3	1699.4	1503.9	1407.7	1288.8	1160.0	1249.6	1246.4
65°	16475.3	6807.1	1070.4	1376.7	1531.5	1397.9	1358.9	1305.1	1171.5	1277.4	1262.7
66°	16059.8	6354.3	1016.7	1300.1	1446.8	1345.8	1334.4	1303.4	1166.5	1280.7	1256.2
67.5°	15051.3	5425.6	923.7	1187.7	1311.5	1267.6	1295.3	1288.8	1153.6	1277.4	1243.2
70°	12275.0	3701.7	790.1	988.9	1091.6	1116.1	1220.3	1236.6	1111.2	1220.3	1145.3
72.5°	8576.5	2254.9	698.9	767.4	883.0	951.6	1117.8	1164.9	1054.2	1065.6	993.9
75°	4144.9	1197.5	633.8	594.7	685.9	795.1	993.9	1067.1	964.5	891.2	865.2
77.5°	1292.0	731.5	537.6	478.9	537.6	641.8	830.9	935.2	858.6	746.2	736.4
80°	694.1	537.6	413.8	384.6	425.3	503.4	653.3	780.4	738.0	669.6	597.9
82.5°	457.9	348.6	306.3	298.1	324.2	384.6	485.5	646.8	646.8	573.5	417.2
85°	236.3	213.4	210.2	210.2	226.5	255.7	330.8	498.6	531.2	303.1	250.8
87.5°	117.3	122.2	114.1	118.9	127.1	125.5	158.0	250.8	299.8	184.2	153.2
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)