

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: P191494

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191494
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 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: 37235.4 lumens
Efficiency: N/A
Efficacy: 111.8 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): 333
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

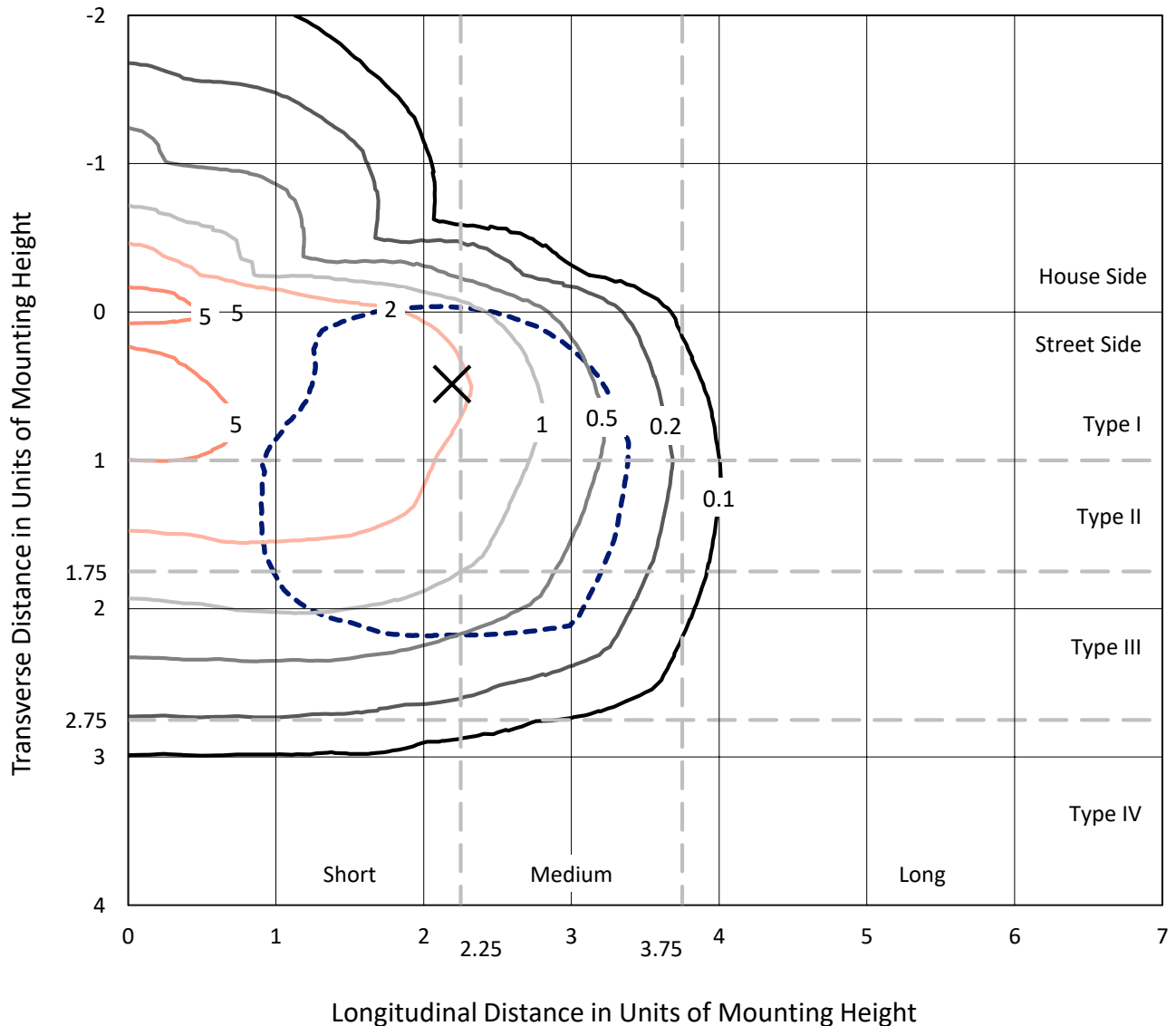


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

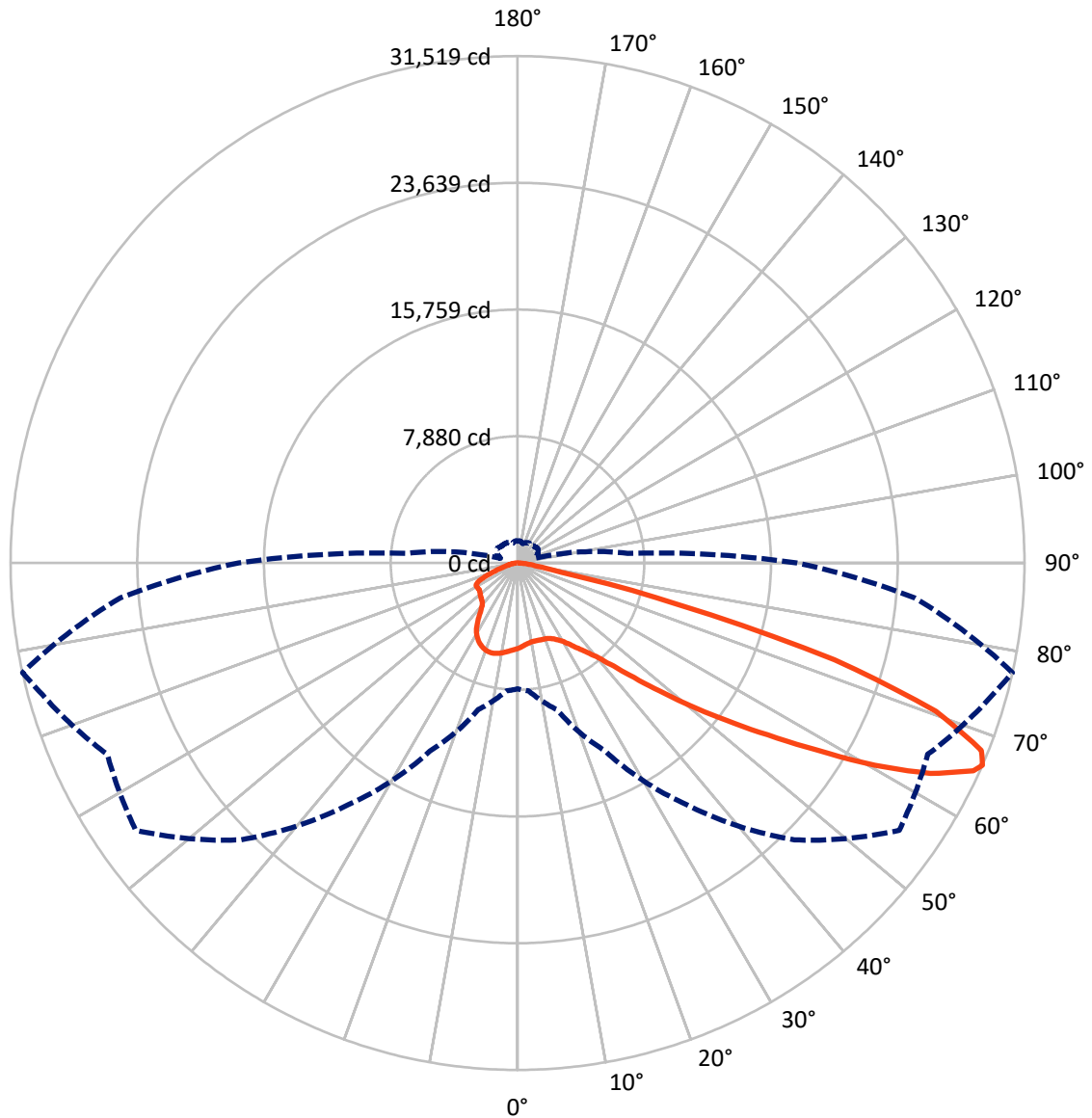


Based on 30 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Short - Full Cutoff

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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	6361.4	0.0	6361.4
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	30874.0	0.0	30874.0
	% Fixture	82.9	0.0	82.9
Total	Lumens	37235.4	0.0	37235.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.1	1.3
10°-20°	1337.4	3.6
20°-30°	2282.5	6.1
30°-40°	3653.9	9.8
40°-50°	5644.9	15.2
50°-60°	8006.5	21.5
60°-70°	10710.5	28.8
70°-80°	4651.4	12.5
80°-90°	474.3	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°	37235.4	100.0
0°-180°	37235.4	100.0



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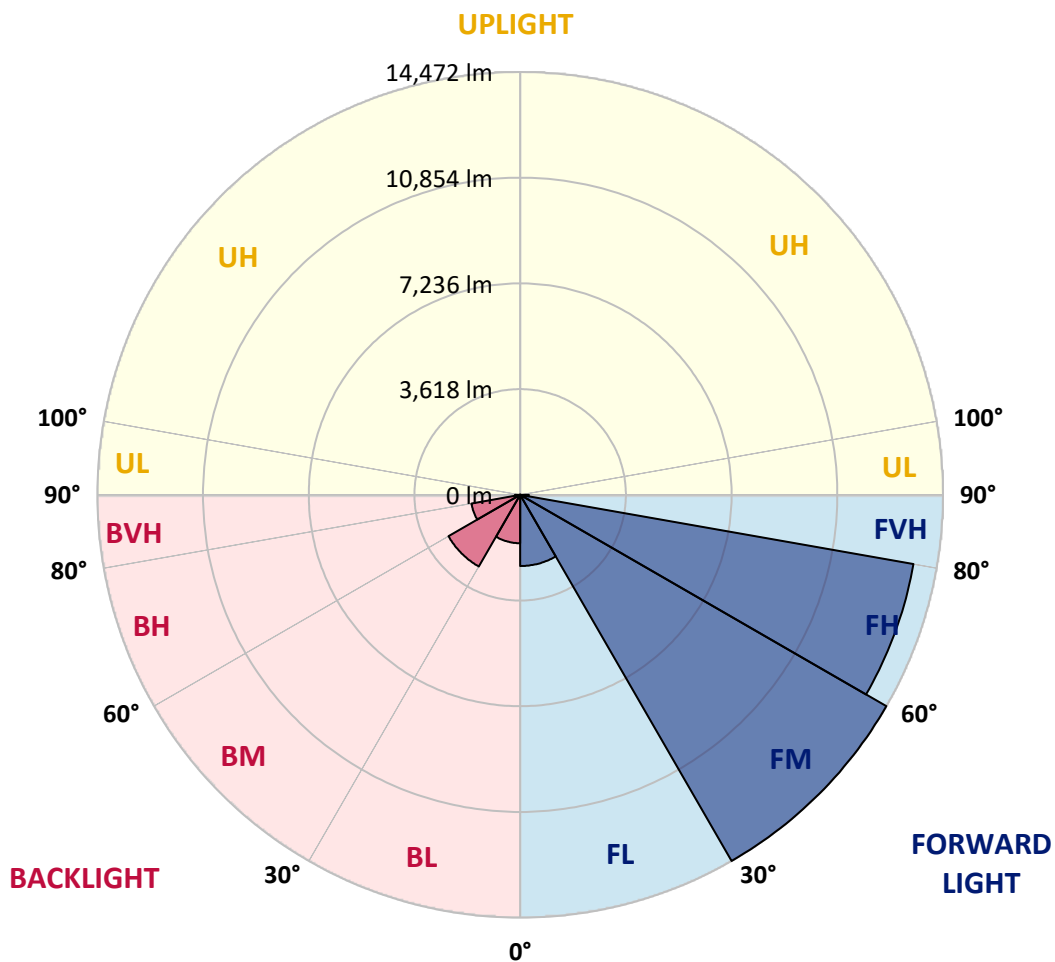
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2437.2	6.5			
FM	(30°-60°)	14471.6	38.9			
FH	(60°-80°)	13667.7	36.7			G5
FVH	(80°-90°)	297.5	0.8			G3/500
BL	(0°-30°)	1656.8	4.4	B3/2500		
BM	(30°-60°)	2833.7	7.6	B3/5000		
BH	(60°-80°)	1694.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	176.8	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°	5306.3	5306.3	5306.3	5306.3	5306.3	5306.3	5306.3	5306.3	5306.3	5306.3	5306.3
2.5°	4694.0	4725.6	4752.0	4776.7	4825.9	4906.9	5000.1	5075.8	5184.8	5205.9	5264.0
5°	4262.9	4262.9	4284.0	4320.9	4387.8	4509.3	4635.9	4804.8	5042.3	5098.6	5253.5
7.5°	4053.5	4055.3	4067.7	4099.3	4157.4	4268.2	4407.2	4606.0	4928.0	5021.3	5285.1
10°	4131.0	4113.4	4087.0	4071.1	4079.9	4145.0	4277.0	4498.6	4857.6	4977.3	5355.5
12.5°	4563.8	4530.3	4438.9	4317.5	4201.4	4153.8	4231.2	4447.7	4827.7	4966.6	5448.7
15°	5271.1	5256.9	5086.3	4834.7	4553.3	4317.5	4264.7	4428.4	4831.2	4979.0	5559.5
17.5°	6157.8	6138.4	5913.2	5547.3	5088.1	4628.9	4382.5	4444.1	4843.5	5000.1	5666.8
20°	7053.2	6993.4	6750.7	6314.4	5724.9	5052.9	4577.8	4484.6	4859.3	5023.0	5779.5
22.5°	7721.8	7672.5	7454.4	7030.4	6351.3	5543.8	4840.0	4555.0	4910.4	5089.8	5918.5
25°	8309.4	8313.0	8096.6	7686.7	6984.6	6064.5	5177.8	4743.2	5040.6	5227.1	6108.4
27.5°	9036.0	8993.9	8791.5	8385.1	7611.0	6590.6	5585.9	5001.8	5234.1	5422.4	6358.4
30°	9905.2	9875.3	9641.3	9180.4	8306.0	7155.3	6052.2	5302.7	5483.9	5679.2	6685.6
32.5°	10927.4	10913.2	10670.5	10077.6	9108.1	7820.4	6599.4	5700.3	5856.9	6059.2	7155.3
35°	12127.3	12129.0	11842.2	11129.7	9986.1	8594.4	7220.4	6212.3	6310.8	6521.9	7714.8
37.5°	12866.2	12955.9	12848.6	12122.0	10980.1	9460.0	8026.2	6891.4	6828.1	7041.0	8314.7
40°	13024.5	13133.6	13473.2	13103.7	12092.1	10413.6	8740.5	7544.2	7465.0	7725.3	9087.1
42.5°	12802.8	12954.1	13671.9	13932.4	13272.6	11588.9	9701.1	8513.5	8413.3	8763.3	10047.7
45°	12670.9	12783.5	13613.9	14363.4	14296.6	12917.2	10923.9	9731.0	9694.1	10153.3	11156.1
47.5°	12442.2	12544.2	13343.0	14463.7	14898.3	14134.7	12392.9	11219.4	11291.5	11893.2	12407.0
50°	12565.3	12607.6	13040.4	14208.6	15072.5	15026.6	14034.4	12943.6	13189.9	13941.2	13823.2
52.5°	12547.7	12656.9	13005.2	13789.9	15095.3	15577.4	15651.2	14866.5	15385.6	16247.6	15394.4
55°	10144.5	10345.0	12591.7	13684.3	15176.2	16117.5	17090.4	16893.3	17861.0	18865.6	17167.8
57.5°	9687.0	9813.7	11059.3	13906.0	15605.5	17148.4	18691.5	19124.2	20742.8	21909.3	19328.3
60°	9597.3	9753.8	11043.5	14176.9	16476.4	18828.6	21064.8	21824.9	24249.3	25526.5	21833.7
62.5°	9317.5	9486.4	10939.6	14141.7	17713.2	21152.8	24103.2	24696.1	27574.5	28816.5	23929.1
65°	8430.9	8589.2	10093.5	13573.4	18547.1	23633.4	27699.4	27328.1	30199.3	31133.6	24974.1
66°	7823.8	7978.7	9426.6	12904.9	18353.6	24337.2	28973.1	28142.7	30787.0	31518.9	24770.0
67.5°	6713.7	6835.2	8131.7	11407.6	17324.4	24534.2	30044.6	28754.9	30848.6	31107.2	23603.6
70°	4241.8	4277.0	5285.1	7874.9	13114.2	21277.7	28413.6	27234.8	28304.5	27604.3	19787.4
72.5°	1840.3	1828.0	2537.0	4006.1	7424.5	14277.2	22984.3	22472.3	22203.0	20605.6	13851.5
75°	1024.0	1038.0	1317.8	1859.6	3017.3	7012.8	15035.4	14388.0	12148.4	10366.2	6280.9
77.5°	821.6	841.0	1092.5	1319.5	1354.7	2445.5	7035.7	5724.9	3446.6	2765.8	1745.3
80°	649.2	684.4	953.6	1027.5	913.1	1008.1	2273.1	1817.4	1363.5	1250.9	904.3
82.5°	513.7	538.4	818.1	777.6	638.6	679.1	1089.0	1060.9	886.7	807.5	522.5
85°	369.5	415.2	672.1	585.8	418.7	457.5	723.1	693.2	508.4	415.2	230.5
87.5°	151.3	197.0	475.1	388.8	233.9	212.9	360.7	339.5	241.0	175.9	114.4
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°	5306.3	5306.3	5306.3	5306.3	5306.3	5306.3	5306.3	5306.3	5306.3	5306.3	5306.3
2.5°	5300.9	5343.2	5397.7	5431.2	5448.7	5461.0	5480.4	5478.6	5483.9	5485.7	5492.7
5°	5336.1	5406.5	5485.7	5506.7	5506.7	5487.4	5468.1	5436.4	5424.1	5420.6	5424.1
7.5°	5427.6	5505.0	5573.6	5549.0	5496.2	5418.8	5318.5	5230.6	5183.1	5167.2	5163.8
10°	5543.8	5637.0	5665.1	5571.9	5417.0	5230.6	5031.8	4887.5	4804.8	4781.9	4774.9
12.5°	5684.4	5772.4	5733.7	5536.7	5249.9	4949.0	4674.6	4444.1	4271.7	4217.2	4213.6
15°	5839.3	5908.0	5772.4	5427.6	5000.1	4556.7	4067.7	3670.0	3455.4	3386.8	3381.5
17.5°	5983.5	6018.7	5749.6	5237.6	4632.4	3914.5	3265.4	2959.2	2885.3	2902.9	2906.4
20°	6106.7	6106.7	5672.2	4964.9	4053.5	3068.3	2658.3	2653.1	2705.9	2758.7	2769.2
22.5°	6242.3	6161.2	5536.7	4579.6	3233.6	2510.6	2450.8	2500.1	2559.8	2617.9	2626.7
25°	6409.3	6205.2	5348.5	3995.5	2542.2	2280.2	2303.0	2343.5	2373.3	2410.3	2415.6
27.5°	6595.8	6261.6	5100.3	3191.5	2206.2	2135.8	2153.4	2167.5	2164.1	2178.1	2181.6
30°	6819.3	6326.6	4760.8	2494.8	2067.3	2012.7	1981.0	1968.8	1968.8	1991.6	2000.4
32.5°	7118.4	6423.4	4273.5	2137.7	2000.4	1924.8	1822.7	1777.0	1794.6	1872.0	1889.6
35°	7447.4	6527.2	3613.7	2016.2	1986.4	1884.3	1725.9	1641.5	1643.3	1715.4	1738.2
37.5°	7806.2	6659.2	2890.7	1993.3	2018.0	1886.0	1674.9	1558.8	1511.3	1511.3	1520.1
40°	8265.4	6794.6	2339.9	2009.2	2084.9	1907.2	1648.5	1493.7	1360.0	1363.5	1370.5
42.5°	8863.7	6910.7	2044.4	2042.6	2165.8	1935.3	1646.7	1407.5	1291.4	1370.5	1442.7
45°	9528.7	6968.9	1914.1	2072.5	2230.9	1952.9	1618.6	1393.4	1300.2	1536.0	1673.1
47.5°	10294.0	6935.4	1842.0	2083.0	2246.7	1952.9	1586.9	1426.8	1361.8	1778.7	1938.8
50°	11133.2	6838.6	1771.6	2062.0	2241.4	1949.3	1616.9	1460.3	1384.6	1821.0	1931.7
52.5°	12120.2	6757.7	1697.8	2016.2	2204.5	1930.0	1652.1	1446.1	1312.4	1655.5	1733.0
55°	13246.2	6780.5	1615.1	1951.2	2146.5	1893.1	1639.7	1389.9	1236.8	1458.5	1506.0
57.5°	14685.4	7053.2	1516.5	1868.4	2067.3	1831.5	1595.7	1363.5	1213.9	1323.1	1351.2
60°	16291.6	7528.3	1393.4	1785.8	1968.8	1733.0	1562.4	1375.9	1224.5	1312.4	1326.6
62.5°	17470.5	7804.5	1287.9	1664.3	1835.0	1623.9	1520.1	1391.6	1252.7	1349.5	1345.9
65°	17790.6	7350.6	1155.9	1486.7	1653.8	1509.6	1467.3	1409.2	1265.0	1379.3	1363.5
66°	17342.0	6861.5	1097.8	1404.0	1562.4	1453.2	1440.9	1407.5	1259.7	1382.8	1356.4
67.5°	16252.9	5858.6	997.6	1282.6	1416.3	1368.8	1398.7	1391.6	1245.6	1379.3	1342.4
70°	13255.0	3997.3	853.2	1068.0	1178.7	1205.1	1317.8	1335.4	1199.9	1317.8	1236.8
72.5°	9261.3	2434.9	754.7	828.7	953.6	1027.5	1206.9	1257.9	1138.3	1150.6	1073.2
75°	4475.8	1293.1	684.4	642.2	740.7	858.6	1073.2	1152.4	1041.6	962.4	934.3
77.5°	1395.2	789.9	580.6	517.2	580.6	693.2	897.2	1009.9	927.2	805.8	795.2
80°	749.5	580.6	446.9	415.2	459.2	543.6	705.5	842.7	797.0	723.1	645.7
82.5°	494.4	376.5	330.7	321.9	350.2	415.2	524.3	698.5	698.5	619.3	450.4
85°	255.1	230.5	227.0	227.0	244.6	276.2	357.1	538.4	573.6	327.2	271.0
87.5°	126.6	132.0	123.2	128.5	137.3	135.4	170.6	271.0	323.8	198.8	165.4
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)