

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: P191904

Luminaire Tested: **GLEON-AF-06-LED-E1-SL2-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191904
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
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-SL2-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38259 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-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

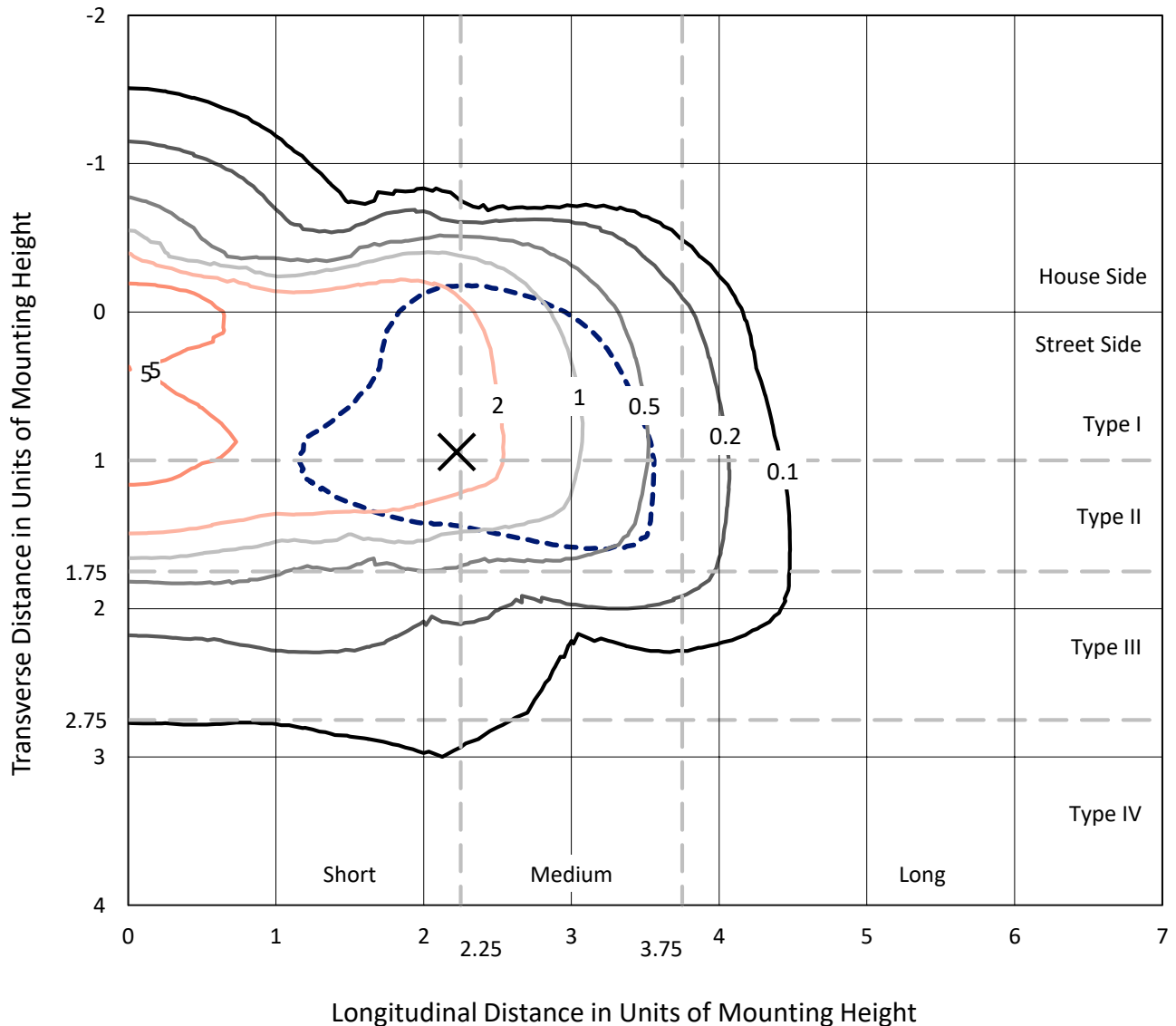


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

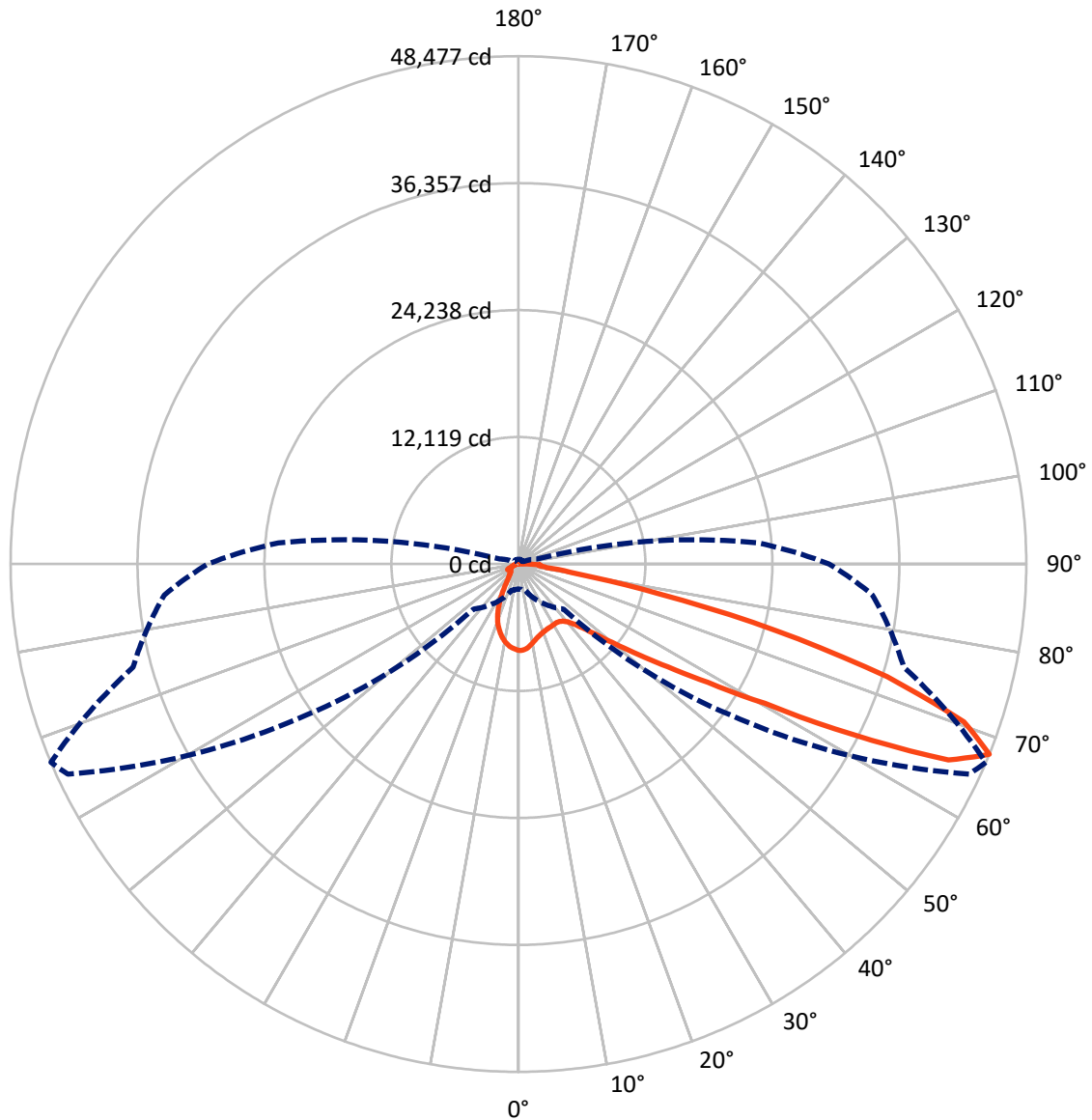


Based on 30 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6339.1	0.0	6339.1
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	31919.9	0.0	31919.9
	% Fixture	83.4	0.0	83.4
Total	Lumens	38259.0	0.0	38259.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	704.1	1.8
10°-20°	1629.1	4.3
20°-30°	2208.2	5.8
30°-40°	3139.2	8.2
40°-50°	5252.0	13.7
50°-60°	8308.7	21.7
60°-70°	10584.4	27.7
70°-80°	5544.1	14.5
80°-90°	889.2	2.3
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°	38259.0	100.0
0°-180°	38259.0	100.0



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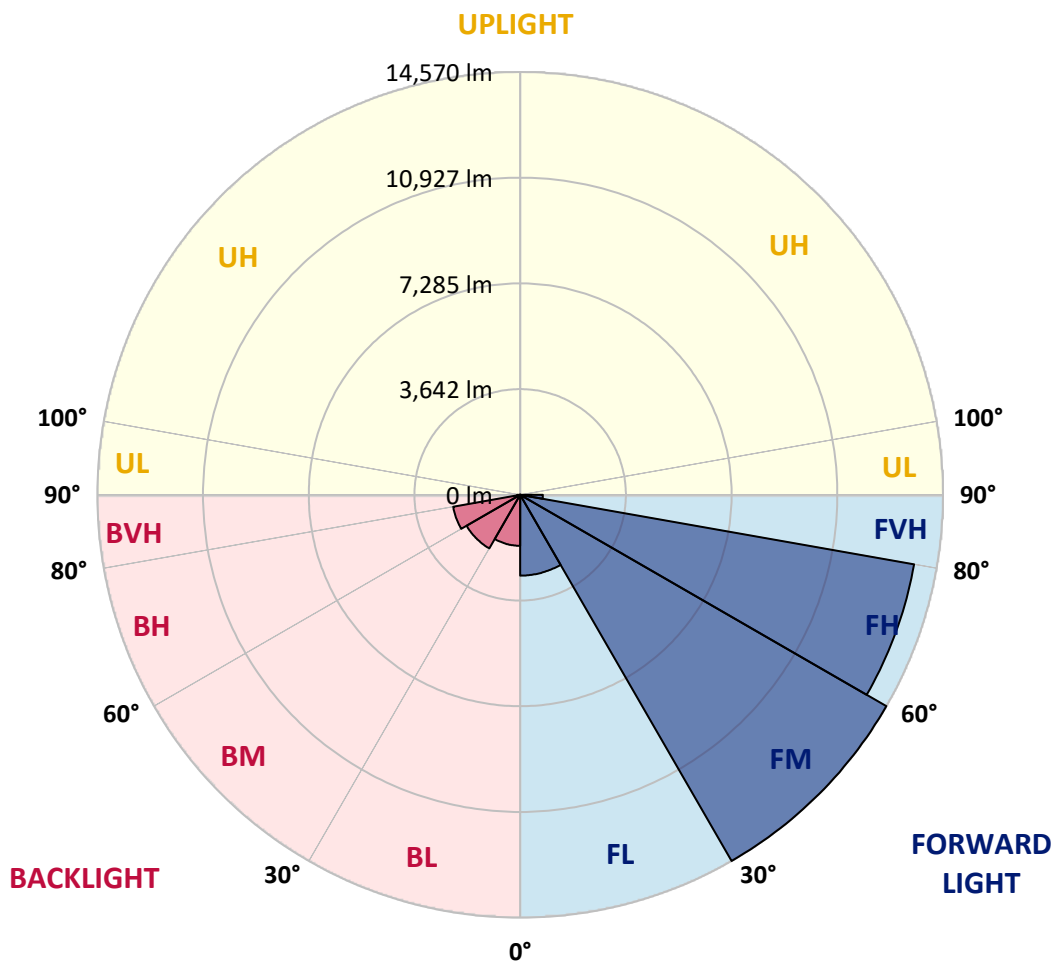
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2784.3	7.3			
FM (30°-60°)	14569.8	38.1			
FH (60°-80°)	13783.9	36.0			G5
FVH (80°-90°)	781.9	2.0			G5
BL (0°-30°)	1757.0	4.6	B3/2500		
BM (30°-60°)	2130.1	5.6	B2/2500		
BH (60°-80°)	2344.6	6.1	B3/2500		G3/2500
BVH (80°-90°)	107.3	0.3			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8252.4	8252.4	8252.4	8252.4	8252.4	8252.4	8252.4	8252.4	8252.4	8252.4	8252.4
2.5°	7912.8	7926.0	7967.5	7993.9	8112.8	8163.7	8199.5	8235.4	8241.1	8258.0	8241.1
5°	7082.6	7110.9	7188.3	7275.1	7505.2	7686.4	7876.9	8075.0	8110.9	8239.2	8275.0
7.5°	6439.3	6431.7	6495.9	6599.6	6835.5	7086.4	7420.3	7814.7	7892.0	8180.7	8320.3
10°	5969.5	5963.8	6031.7	6139.3	6363.8	6601.5	6978.9	7518.5	7627.9	8088.2	8363.7
12.5°	5622.3	5624.2	5692.1	5811.0	6039.3	6278.9	6661.9	7231.7	7371.3	7980.7	8409.0
15°	5392.2	5407.2	5462.0	5588.4	5811.0	6050.6	6426.1	7016.6	7173.2	7895.8	8459.9
17.5°	5314.8	5339.3	5358.2	5450.6	5641.2	5880.8	6248.7	6858.1	7024.1	7837.3	8505.2
20°	5386.5	5414.8	5378.9	5411.0	5531.8	5743.1	6109.1	6733.6	6903.4	7771.3	8510.8
22.5°	5694.0	5720.4	5614.8	5522.3	5514.8	5643.1	5994.0	6635.5	6810.9	7722.2	8512.7
25°	6235.5	6252.5	6075.1	5860.1	5650.6	5607.2	5912.9	6567.6	6754.3	7678.8	8476.9
27.5°	6899.6	6912.8	6709.1	6392.1	5971.4	5692.1	5884.6	6527.9	6722.3	7641.1	8416.5
30°	7707.1	7769.4	7495.8	7095.8	6482.7	5943.1	5941.2	6507.2	6686.4	7576.9	8297.7
32.5°	8533.5	8559.9	8371.2	7965.6	7171.3	6384.6	6099.7	6522.3	6677.0	7499.6	8146.7
35°	9371.2	9405.1	9282.5	8956.1	8112.8	7031.7	6409.1	6611.0	6735.5	7473.2	8041.1
37.5°	10456.0	10501.3	10331.5	9954.2	9258.0	7909.0	6924.1	6833.6	6914.7	7548.6	8009.0
40°	12171.0	12150.3	11654.1	11091.8	10510.7	9031.6	7660.0	7210.9	7258.1	7792.0	8107.1
42.5°	14167.1	14116.2	13261.5	12378.6	11888.0	10390.0	8633.5	7865.6	7856.2	8271.2	8452.4
45°	15759.5	15718.0	14948.2	13859.6	13467.2	11937.1	9891.9	8841.0	8771.2	9031.6	9090.1
47.5°	16621.7	16623.6	16180.2	15291.6	15282.2	13903.0	11508.8	10252.3	10131.5	10254.1	10191.9
50°	16319.8	16359.5	16312.3	16029.3	16938.7	16480.2	13620.0	12220.1	11976.7	12097.4	11857.8
52.5°	14859.6	14910.5	15189.7	15623.7	17634.9	19595.1	16721.7	14665.2	14382.2	14338.8	14072.8
55°	12271.0	12333.3	12903.1	14082.2	17055.7	21687.5	21615.8	17782.0	17331.1	16921.7	16808.5
57.5°	8458.0	8561.8	9478.7	11229.6	15182.2	22319.5	27443.8	22225.2	21308.3	19878.1	19904.6
60°	4767.7	4888.4	5969.5	7560.0	11401.3	21632.8	31877.5	28955.0	27019.3	23340.2	23536.4
62.5°	3031.9	3162.1	3982.8	5252.5	6841.1	17934.9	33694.4	38311.1	35852.7	27607.9	27800.3
65°	2454.6	2511.2	2898.0	4335.6	4967.6	10805.1	32315.2	46018.2	45101.3	33024.6	32126.5
67.5°	2396.1	2415.0	2614.9	3639.4	4763.9	6073.2	25775.9	47459.6	48476.6	38082.8	33928.3
70°	2367.8	2433.8	2947.0	3473.4	4562.0	5122.4	15489.7	43508.9	45114.5	39405.4	31530.3
72.5°	1149.0	1145.2	1482.9	3141.3	5139.3	5312.9	7958.0	35203.7	36814.9	34139.6	25909.9
75°	926.4	847.1	809.4	1150.9	4941.2	5486.5	5071.4	24223.2	25389.2	22889.3	15927.4
77.5°	879.2	784.9	718.8	720.7	2088.6	5818.5	4296.0	13406.8	13746.4	10339.0	4363.9
80°	728.3	641.5	594.3	669.8	1011.3	5541.2	4645.0	6067.6	5567.6	2539.5	1452.7
82.5°	505.6	460.4	447.1	562.2	809.4	3948.8	5401.6	3260.2	2733.8	1271.6	896.2
85°	322.6	275.5	305.6	409.4	630.2	1822.5	5563.8	2541.4	2020.6	807.5	505.6
87.5°	149.0	120.7	150.9	226.4	411.3	628.3	5294.0	2854.6	2081.0	426.4	318.9
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°	8252.4	8252.4	8252.4	8252.4	8252.4	8252.4	8252.4	8252.4	8252.4	8252.4	8252.4
2.5°	8256.1	8220.3	8192.0	8139.2	8080.7	8024.1	7973.1	7909.0	7890.1	7873.1	7899.6
5°	8282.6	8246.7	8142.9	7980.7	7801.5	7633.5	7465.6	7322.2	7233.6	7184.5	7212.8
7.5°	8322.2	8271.2	8056.2	7758.1	7435.4	7141.1	6837.4	6594.0	6414.7	6329.8	6354.4
10°	8358.0	8259.9	7909.0	7461.9	6990.2	6552.5	6073.2	5677.0	5382.7	5228.0	5265.7
12.5°	8373.1	8216.5	7703.3	7092.1	6444.9	5803.5	5097.8	4505.4	4082.8	3928.1	3896.0
15°	8388.2	8167.5	7476.9	6671.3	5786.5	4879.0	3890.4	3181.0	2830.0	2752.7	2735.7
17.5°	8392.0	8082.6	7220.4	6214.7	5014.8	3779.0	2660.2	2209.3	2211.2	2335.7	2350.8
20°	8352.4	7956.2	6909.1	5646.9	4090.3	2613.1	1826.3	1749.0	2033.8	2345.2	2382.9
22.5°	8261.8	7788.2	6556.2	4984.6	3031.9	1720.7	1413.1	1498.0	1865.9	2247.0	2290.4
25°	8146.7	7584.5	6139.3	4216.7	2007.4	1230.1	1184.8	1288.6	1537.7	1792.4	1816.9
27.5°	7990.1	7343.0	5671.4	3337.6	1303.7	1013.2	1043.3	1113.1	1215.0	1328.2	1339.5
30°	7788.2	7054.3	5171.4	2433.8	984.9	911.3	954.7	992.4	1035.8	1099.9	1105.6
32.5°	7556.2	6777.0	4658.2	1681.0	873.5	858.4	892.4	911.3	945.2	984.9	988.6
35°	7361.9	6512.8	4126.2	1188.6	826.4	818.8	841.5	849.0	881.1	924.5	928.3
37.5°	7250.5	6297.8	3577.2	958.4	794.3	783.0	796.2	796.2	841.5	905.6	915.0
40°	7258.1	6178.9	3028.1	866.0	767.9	752.8	754.7	754.7	813.2	883.0	888.6
42.5°	7463.7	6209.1	2541.4	830.1	747.1	730.1	720.7	726.4	775.4	820.7	824.5
45°	7946.7	6422.3	2084.8	807.5	726.4	720.7	700.0	698.1	716.9	737.7	737.7
47.5°	8739.1	6843.0	1775.4	792.4	709.4	707.5	683.0	658.5	656.6	664.1	664.1
50°	10027.7	7567.5	1567.8	775.4	698.1	683.0	654.7	616.9	603.7	609.4	609.4
52.5°	11959.7	8859.9	1488.6	752.8	673.5	649.0	616.9	579.2	567.9	569.8	569.8
55°	14493.5	10844.7	1477.3	726.4	647.1	607.5	581.1	552.8	539.6	543.4	543.4
57.5°	17589.6	13589.8	1679.2	684.9	611.3	566.0	550.9	532.0	522.6	528.3	526.4
60°	21353.5	17182.1	2490.4	641.5	575.4	528.3	528.3	513.2	505.6	511.3	509.4
62.5°	25689.1	21308.3	3501.7	609.4	537.7	498.1	505.6	498.1	490.5	494.3	492.4
65°	29534.2	23996.8	3279.1	584.9	500.0	469.8	483.0	479.2	473.6	477.3	475.4
67.5°	29645.5	23000.6	1841.4	558.5	464.1	441.5	460.4	458.5	454.7	458.5	456.6
70°	26457.0	19421.6	1037.7	509.4	426.4	407.5	433.9	432.1	428.3	435.8	433.9
72.5°	21196.9	14093.6	758.4	449.0	388.7	371.7	401.9	400.0	400.0	411.3	405.6
75°	12197.4	7252.4	605.6	384.9	349.0	335.8	362.2	364.1	367.9	383.0	371.7
77.5°	3477.2	2260.3	494.3	326.4	300.0	294.3	320.7	324.5	326.4	343.4	328.3
80°	1292.4	1041.5	407.5	273.6	245.3	247.2	271.7	277.3	279.2	296.2	277.3
82.5°	824.5	686.8	330.2	211.3	192.4	190.6	220.7	228.3	228.3	230.2	218.9
85°	481.1	411.3	249.0	152.8	135.8	130.2	164.1	177.3	171.7	167.9	160.4
87.5°	322.6	283.0	152.8	84.9	73.6	69.8	96.2	105.7	101.9	96.2	90.6
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)