

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: P191895

Luminaire Tested: **GLEON-AF-07-LED-E1-SL2-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191895
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-07-LED-E1-SL2-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1050mA 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: 41245 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

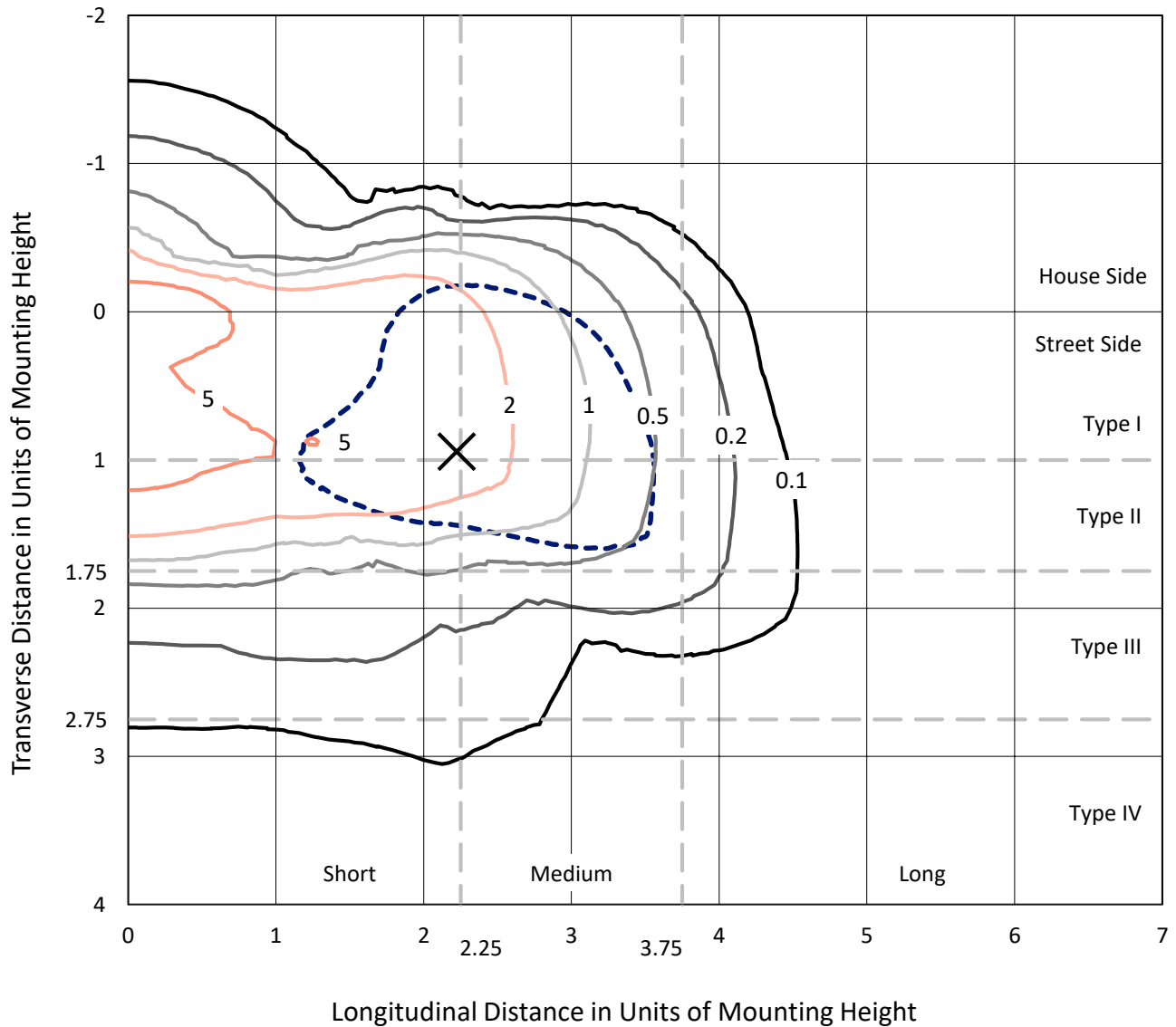
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

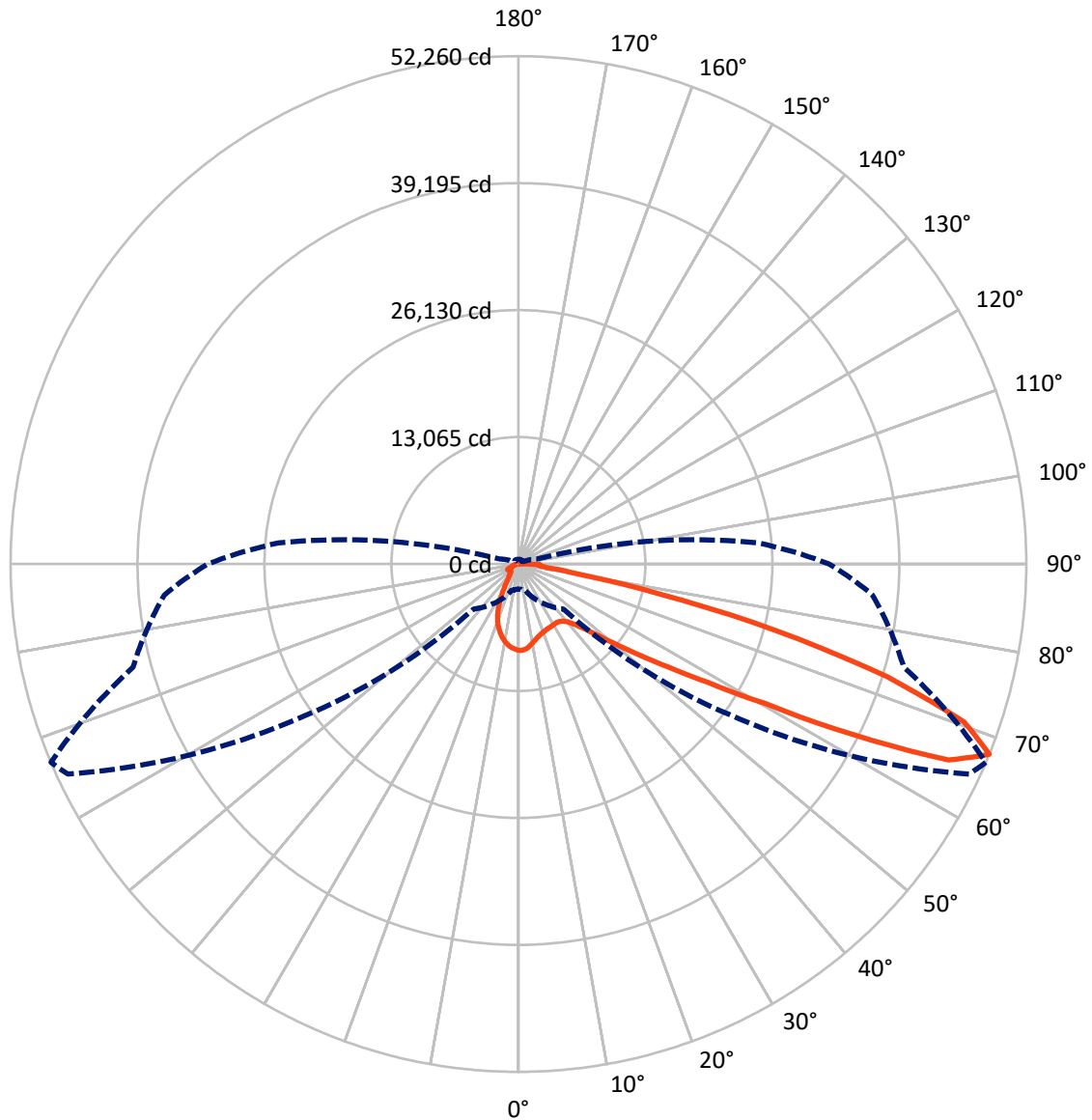
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.9 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	6833.8	0.0	6833.8
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	34411.2	0.0	34411.2
	% Fixture	83.4	0.0	83.4
Total	Lumens	41245.0	0.0	41245.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	759.0	1.8
10°-20°	1756.2	4.3
20°-30°	2380.6	5.8
30°-40°	3384.2	8.2
40°-50°	5661.9	13.7
50°-60°	8957.2	21.7
60°-70°	11410.5	27.7
70°-80°	5976.8	14.5
80°-90°	958.6	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°	41245.0	100.0
0°-180°	41245.0	100.0



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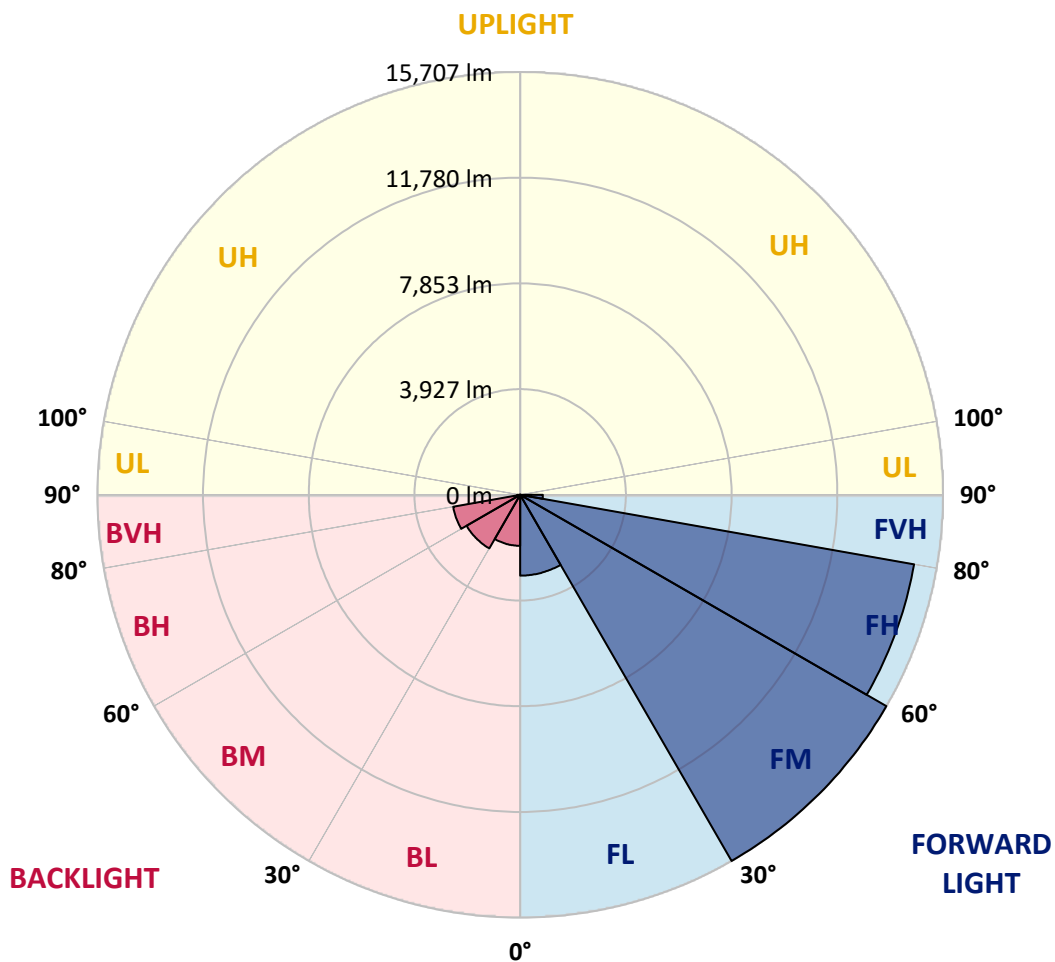
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3001.6	7.3			
FM	(30°-60°)	15706.9	38.1			
FH	(60°-80°)	14859.7	36.0			G5
FVH	(80°-90°)	842.9	2.0			G5
BL	(0°-30°)	1894.2	4.6	B3/2500		
BM	(30°-60°)	2296.4	5.6	B2/2500		
BH	(60°-80°)	2527.6	6.1	B4/5000		G4/5000
BVH	(80°-90°)	115.7	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8896.4	8896.4	8896.4	8896.4	8896.4	8896.4	8896.4	8896.4	8896.4	8896.4	8896.4
2.5°	8530.3	8544.6	8589.3	8617.8	8745.9	8800.9	8839.5	8878.1	8884.2	8902.5	8884.2
5°	7635.4	7665.9	7749.3	7842.9	8091.0	8286.3	8491.7	8705.3	8743.9	8882.2	8920.9
7.5°	6941.8	6933.7	7002.8	7114.7	7369.0	7639.5	7999.5	8424.6	8508.0	8819.2	8969.7
10°	6435.4	6429.3	6502.5	6618.4	6860.5	7116.7	7523.5	8105.2	8223.2	8719.5	9016.4
12.5°	6061.1	6063.2	6136.4	6264.5	6510.6	6768.9	7181.8	7796.1	7946.6	8603.6	9065.3
15°	5813.0	5829.3	5888.3	6024.5	6264.5	6522.8	6927.6	7564.2	7733.0	8512.0	9120.2
17.5°	5729.6	5756.0	5776.4	5876.0	6081.5	6339.8	6736.4	7393.4	7572.4	8449.0	9169.0
20°	5806.9	5837.4	5798.8	5833.3	5963.5	6191.3	6585.9	7259.1	7442.2	8377.8	9175.1
22.5°	6138.4	6166.9	6053.0	5953.3	5945.2	6083.5	6461.8	7153.4	7342.5	8324.9	9177.1
25°	6722.2	6740.5	6549.3	6317.4	6091.6	6044.9	6374.4	7080.1	7281.5	8278.1	9138.5
27.5°	7438.1	7452.3	7232.7	6891.0	6437.4	6136.4	6343.9	7037.4	7246.9	8237.4	9073.4
30°	8308.6	8375.8	8080.8	7649.6	6988.6	6406.9	6404.9	7015.1	7208.3	8168.3	8945.3
32.5°	9199.5	9228.0	9024.6	8587.3	7731.0	6882.8	6575.7	7031.3	7198.1	8084.9	8782.5
35°	10102.6	10139.2	10007.0	9655.1	8745.9	7580.5	6909.3	7126.9	7261.2	8056.4	8668.6
37.5°	11272.1	11320.9	11137.8	10731.1	9980.5	8526.3	7464.6	7366.9	7454.4	8137.8	8634.1
40°	13120.9	13098.6	12563.6	11957.5	11331.1	9736.5	8257.8	7773.7	7824.6	8400.2	8739.8
42.5°	15272.8	15217.9	14296.6	13344.7	12815.8	11200.9	9307.3	8479.5	8469.3	8916.8	9112.0
45°	16989.5	16944.7	16114.9	14941.3	14518.3	12868.7	10663.9	9531.0	9455.8	9736.5	9799.5
47.5°	17919.0	17921.0	17443.1	16485.1	16474.9	14988.1	12407.0	11052.4	10922.2	11054.5	10987.3
50°	17593.6	17636.3	17585.4	17280.3	18260.7	17766.4	14683.0	13173.8	12911.4	13041.6	12783.3
52.5°	16019.3	16074.2	16375.2	16843.0	19011.2	21124.5	18026.8	15809.8	15504.7	15457.9	15171.1
55°	13228.7	13295.9	13910.1	15181.3	18386.8	23380.1	23302.8	19169.9	18683.8	18242.4	18120.4
57.5°	9118.1	9230.0	10218.5	12106.0	16367.1	24061.5	29585.7	23959.8	22971.3	21429.6	21458.0
60°	5139.8	5269.9	6435.4	8150.0	12291.1	23321.1	34365.4	31214.8	29128.0	25161.8	25373.4
62.5°	3268.5	3408.9	4293.6	5662.5	7375.1	19334.6	36324.1	41301.1	38650.9	29762.6	29970.1
65°	2646.2	2707.2	3124.1	4674.0	5355.4	11648.4	34837.3	49609.8	48621.3	35602.1	34633.9
67.5°	2583.1	2603.4	2819.0	3923.5	5135.7	6547.2	27787.7	51163.7	52260.0	41055.0	36576.3
70°	2552.6	2623.8	3177.0	3744.5	4918.1	5522.1	16698.6	46904.6	48635.5	42480.8	33991.2
72.5°	1238.7	1234.6	1598.7	3386.5	5540.4	5727.6	8579.2	37951.3	39688.2	36804.1	27932.1
75°	998.7	913.2	872.6	1240.7	5326.9	5914.7	5467.2	26113.7	27370.7	24675.7	17170.5
77.5°	947.8	846.1	774.9	777.0	2251.6	6272.7	4631.3	14453.2	14819.3	11146.0	4704.5
80°	785.1	691.5	640.7	722.0	1090.2	5973.7	5007.6	6541.1	6002.2	2737.7	1566.1
82.5°	545.1	496.3	482.0	606.1	872.6	4257.0	5823.2	3514.6	2947.2	1370.9	966.1
85°	347.8	297.0	329.5	441.4	679.3	1964.8	5998.1	2739.7	2178.3	870.5	545.1
87.5°	160.7	130.2	162.7	244.1	443.4	677.3	5707.2	3077.3	2243.4	459.7	343.7
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°	8896.4	8896.4	8896.4	8896.4	8896.4	8896.4	8896.4	8896.4	8896.4	8896.4	8896.4
2.5°	8900.5	8861.9	8831.4	8774.4	8711.4	8650.3	8595.4	8526.3	8505.9	8487.6	8516.1
5°	8929.0	8890.3	8778.5	8603.6	8410.3	8229.3	8048.3	7893.7	7798.1	7745.2	7775.7
7.5°	8971.7	8916.8	8684.9	8363.6	8015.8	7698.5	7371.0	7108.6	6915.4	6823.9	6850.3
10°	9010.3	8904.6	8526.3	8044.2	7535.7	7063.9	6547.2	6120.1	5802.8	5636.0	5676.7
12.5°	9026.6	8857.8	8304.6	7645.6	6947.9	6256.4	5495.7	4857.0	4401.4	4234.7	4200.1
15°	9042.9	8804.9	8060.5	7192.0	6238.1	5259.8	4194.0	3429.2	3050.9	2967.5	2949.2
17.5°	9047.0	8713.4	7783.9	6699.8	5406.2	4074.0	2867.9	2381.7	2383.8	2518.0	2534.3
20°	9004.2	8577.1	7448.3	6087.6	4409.6	2817.0	1968.9	1885.5	2192.6	2528.2	2568.9
22.5°	8906.6	8396.1	7067.9	5373.7	3268.5	1855.0	1523.4	1614.9	2011.6	2422.4	2469.2
25°	8782.5	8176.4	6618.4	4545.9	2164.1	1326.1	1277.3	1389.2	1657.7	1932.2	1958.7
27.5°	8613.7	7916.1	6114.0	3598.0	1405.5	1092.2	1124.8	1200.0	1309.9	1431.9	1444.1
30°	8396.1	7604.9	5575.0	2623.8	1061.7	982.4	1029.2	1069.9	1116.6	1185.8	1191.9
32.5°	8145.9	7305.9	5021.8	1812.2	941.7	925.4	962.1	982.4	1019.0	1061.7	1065.8
35°	7936.4	7021.2	4448.2	1281.4	890.9	882.7	907.1	915.3	949.8	996.6	1000.7
37.5°	7816.4	6789.3	3856.3	1033.2	856.3	844.1	858.3	858.3	907.1	976.3	986.5
40°	7824.6	6661.1	3264.5	933.6	827.8	811.5	813.6	813.6	876.6	951.9	958.0
42.5°	8046.3	6693.7	2739.7	894.9	805.4	787.1	777.0	783.1	835.9	884.8	888.8
45°	8566.9	6923.5	2247.5	870.5	783.1	777.0	754.6	752.6	772.9	795.3	795.3
47.5°	9421.2	7377.1	1913.9	854.3	764.8	762.7	736.3	709.8	707.8	715.9	715.9
50°	10810.4	8158.1	1690.2	835.9	752.6	736.3	705.8	665.1	650.9	657.0	657.0
52.5°	12893.1	9551.4	1604.8	811.5	726.1	699.7	665.1	624.4	612.2	614.2	614.2
55°	15624.7	11691.1	1592.6	783.1	697.6	654.9	626.5	595.9	581.7	585.8	585.8
57.5°	18962.4	14650.5	1810.2	738.3	659.0	610.2	593.9	573.6	563.4	569.5	567.5
60°	23020.1	18523.1	2684.8	691.5	620.4	569.5	569.5	553.2	545.1	551.2	549.2
62.5°	27694.1	22971.3	3775.0	657.0	579.7	537.0	545.1	537.0	528.8	532.9	530.9
65°	31839.3	25869.7	3535.0	630.5	539.0	506.5	520.7	516.6	510.5	514.6	512.6
67.5°	31959.3	24795.7	1985.1	602.0	500.3	475.9	496.3	494.2	490.2	494.2	492.2
70°	28521.9	20937.4	1118.7	549.2	459.7	439.3	467.8	465.8	461.7	469.8	467.8
72.5°	22851.3	15193.5	817.6	484.1	419.0	400.7	433.2	431.2	431.2	443.4	437.3
75°	13149.4	7818.5	652.9	414.9	376.3	362.0	390.5	392.6	396.6	412.9	400.7
77.5°	3748.5	2436.7	532.9	351.9	323.4	317.3	345.8	349.8	351.9	370.2	353.9
80°	1393.2	1122.7	439.3	294.9	264.4	266.4	292.9	299.0	301.0	319.3	299.0
82.5°	888.8	740.4	355.9	227.8	207.5	205.4	238.0	246.1	246.1	248.1	235.9
85°	518.7	443.4	268.5	164.7	146.4	140.3	177.0	191.2	185.1	181.0	172.9
87.5°	347.8	305.1	164.7	91.5	79.3	75.3	103.7	113.9	109.8	103.7	97.6
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)