

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: P193646

Luminaire Tested: **GLEON-AF-08-LED-E1-SL2-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193646
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-08-LED-E1-SL2-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 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: 41834 lumens
Efficiency: N/A
Efficacy: 81.9 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): 511
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

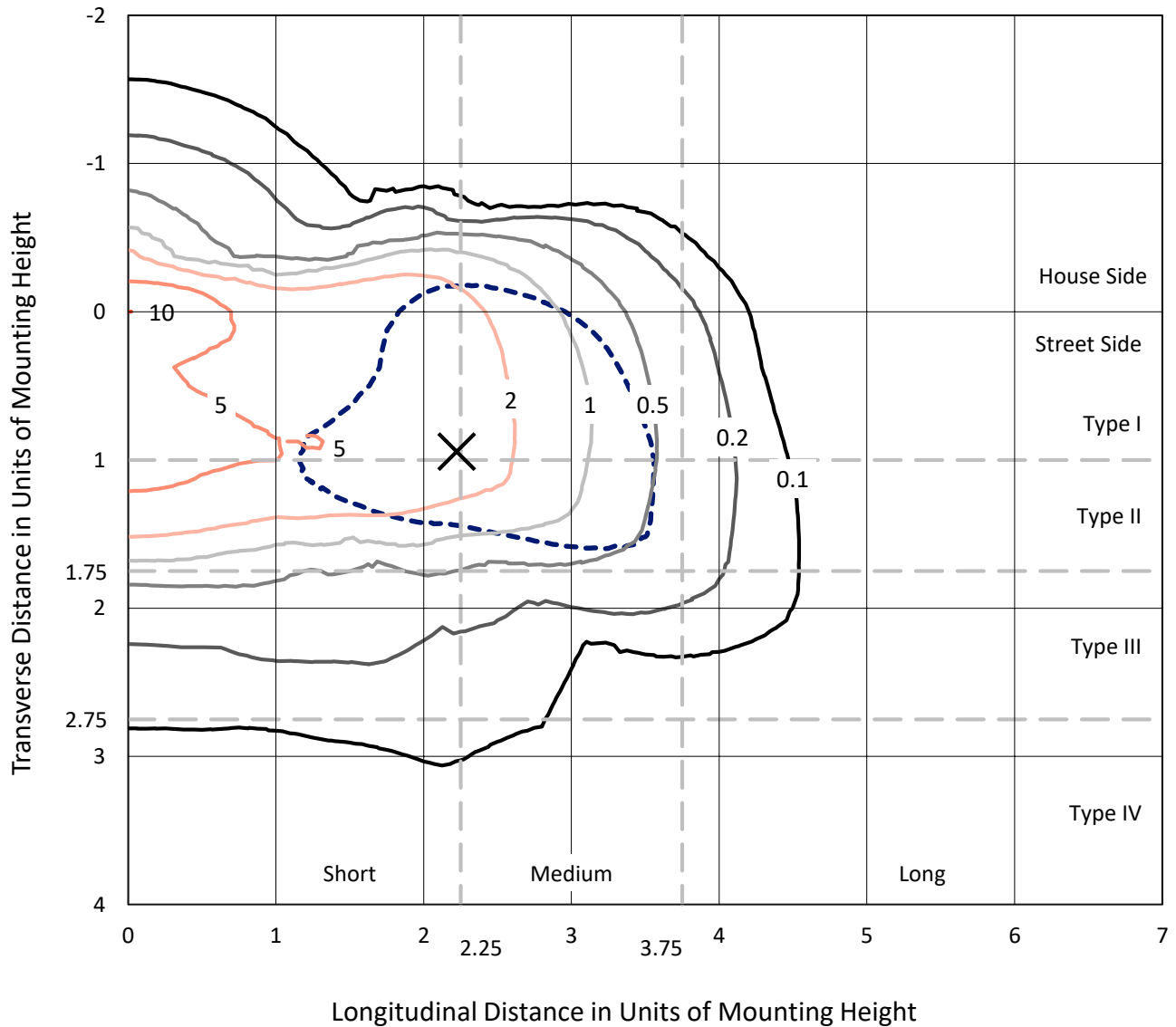


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Iso-Footcandle Lines of Horizontal Illumination

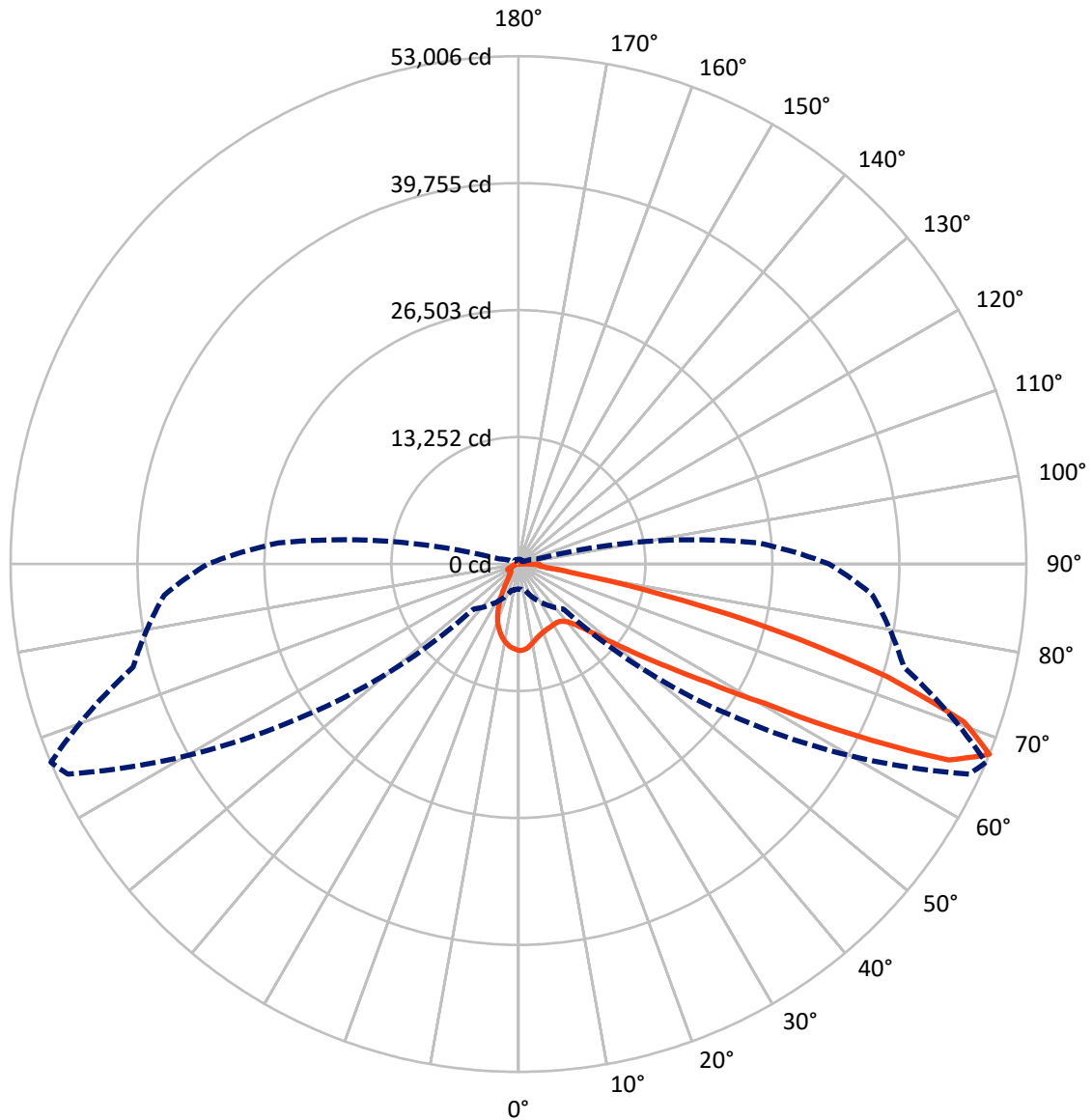
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10 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	6931.4	0.0	6931.4
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	34902.6	0.0	34902.6
	% Fixture	83.4	0.0	83.4
Total	Lumens	41834.0	0.0	41834.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	769.8	1.8
10°-20°	1781.3	4.3
20°-30°	2414.6	5.8
30°-40°	3432.6	8.2
40°-50°	5742.8	13.7
50°-60°	9085.1	21.7
60°-70°	11573.5	27.7
70°-80°	6062.2	14.5
80°-90°	972.3	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°	41834.0	100.0
0°-180°	41834.0	100.0

Coefficient of Utilization



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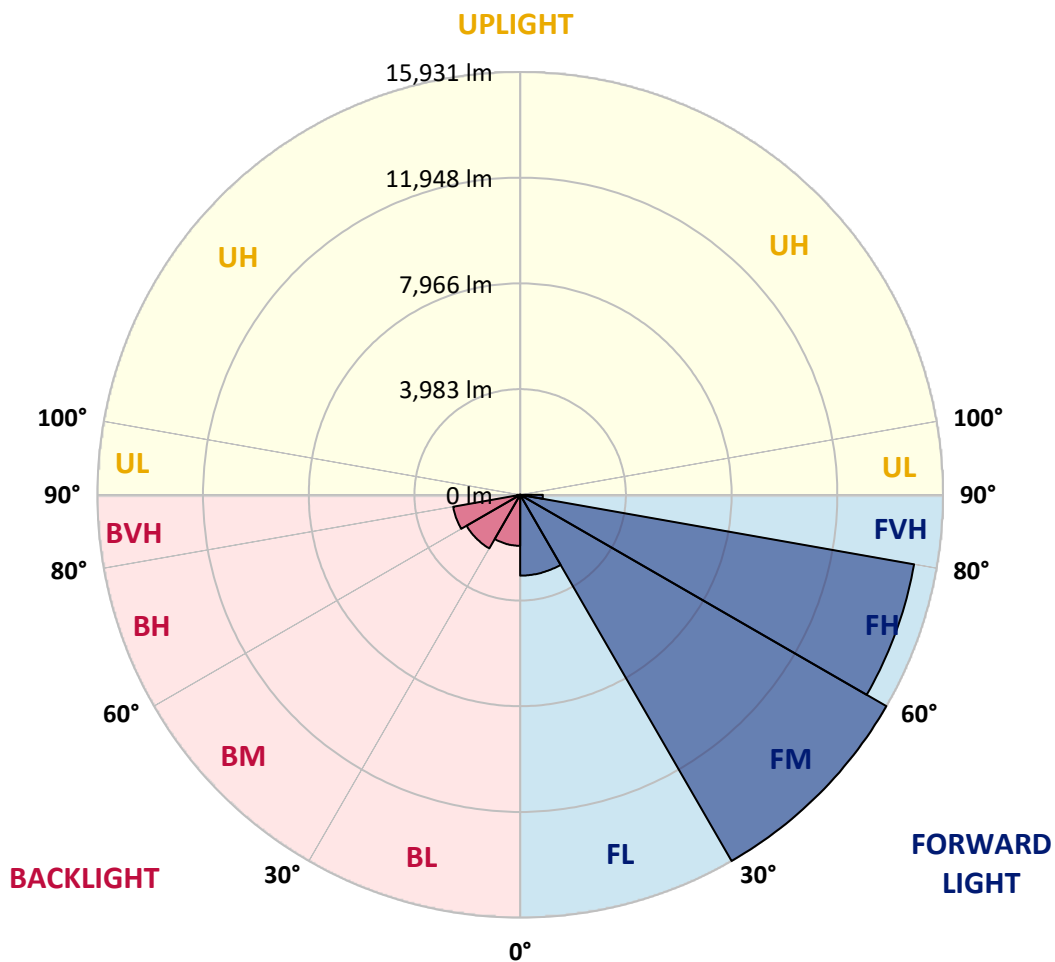
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3044.5	7.3			
FM (30°-60°)	15931.3	38.1			
FH (60°-80°)	15071.9	36.0			G5
FVH (80°-90°)	854.9	2.0			G5
BL (0°-30°)	1921.2	4.6	B3/2500		
BM (30°-60°)	2329.2	5.6	B2/2500		
BH (60°-80°)	2563.7	6.1	B4/5000		G4/5000
BVH (80°-90°)	117.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	9023.5	9023.5	9023.5	9023.5	9023.5	9023.5	9023.5	9023.5	9023.5	9023.5	9023.5
2.5°	8652.2	8666.6	8712.0	8740.9	8870.8	8926.5	8965.7	9004.9	9011.1	9029.7	9011.1
5°	7744.4	7775.4	7860.0	7954.9	8206.5	8404.6	8613.0	8829.6	8868.8	9009.1	9048.2
7.5°	7041.0	7032.7	7102.9	7216.3	7474.2	7748.6	8113.7	8544.9	8629.5	8945.1	9097.8
10°	6527.3	6521.1	6595.4	6712.9	6958.4	7218.4	7631.0	8221.0	8340.6	8844.0	9145.2
12.5°	6147.7	6149.8	6224.0	6354.0	6603.6	6865.6	7284.4	7907.4	8060.1	8726.4	9194.7
15°	5896.0	5912.5	5972.3	6110.6	6354.0	6616.0	7026.5	7672.2	7843.5	8633.6	9250.4
17.5°	5811.4	5838.2	5858.9	5960.0	6168.3	6430.3	6832.6	7498.9	7680.5	8569.6	9299.9
20°	5889.8	5920.8	5881.6	5916.6	6048.7	6279.7	6679.9	7362.8	7548.5	8497.4	9306.1
22.5°	6226.1	6255.0	6139.4	6038.4	6030.1	6170.4	6554.1	7255.5	7447.4	8443.8	9308.2
25°	6818.2	6836.7	6642.8	6407.6	6178.6	6131.2	6465.4	7181.2	7385.5	8396.3	9269.0
27.5°	7544.3	7558.8	7336.0	6989.4	6529.3	6224.0	6434.4	7137.9	7350.4	8355.1	9203.0
30°	8427.3	8495.4	8196.2	7758.9	7088.4	6498.4	6496.3	7115.2	7311.2	8284.9	9073.0
32.5°	9330.9	9359.8	9153.5	8709.9	7841.4	6981.1	6669.6	7131.7	7300.9	8200.4	8908.0
35°	10246.8	10284.0	10149.9	9793.0	8870.8	7688.7	7008.0	7228.7	7364.9	8171.5	8792.4
37.5°	11433.1	11482.6	11296.9	10884.3	10123.1	8648.0	7571.2	7472.1	7560.8	8254.0	8757.4
40°	13308.3	13285.6	12743.1	12128.3	11492.9	9875.5	8375.7	7884.7	7936.3	8520.1	8864.6
42.5°	15490.9	15435.2	14500.7	13535.2	12998.9	11360.9	9440.2	8600.6	8590.3	9044.1	9242.2
45°	17232.1	17186.7	16345.0	15154.7	14725.6	13052.5	10816.2	9667.1	9590.8	9875.5	9939.5
47.5°	18174.9	18177.0	17692.1	16720.5	16710.2	15202.1	12584.2	11210.3	11078.2	11212.3	11144.2
50°	17844.8	17888.1	17836.6	17527.1	18521.5	18020.2	14892.7	13361.9	13095.8	13227.9	12965.9
52.5°	16248.1	16303.8	16609.1	17083.6	19282.7	21426.2	18284.2	16035.6	15726.1	15678.7	15387.8
55°	13417.6	13485.7	14108.7	15398.1	18649.4	23714.0	23635.6	19443.6	18950.6	18502.9	18379.1
57.5°	9248.4	9361.8	10364.4	12278.9	16600.8	24405.1	30008.2	24301.9	23299.3	21735.6	21764.5
60°	5213.2	5345.2	6527.3	8266.4	12466.6	23654.2	34856.2	31660.6	29544.0	25521.2	25735.7
62.5°	3315.2	3457.6	4355.0	5743.3	7480.4	19610.7	36842.8	41890.9	39202.9	30187.6	30398.1
65°	2683.9	2745.8	3168.7	4740.7	5431.8	11814.7	35334.8	50318.2	49315.6	36110.5	35128.5
67.5°	2620.0	2640.6	2859.3	3979.5	5209.0	6640.7	28184.5	51894.4	53006.3	41641.3	37098.6
70°	2589.0	2661.2	3222.4	3798.0	4988.3	5601.0	16937.1	47574.5	49330.1	43087.5	34476.6
72.5°	1256.4	1252.2	1621.5	3434.9	5619.6	5809.4	8701.7	38493.2	40255.0	37329.7	28331.0
75°	1012.9	926.3	885.0	1258.4	5403.0	5999.2	5545.3	26486.6	27761.6	25028.1	17415.7
77.5°	961.4	858.2	786.0	788.1	2283.7	6362.2	4697.4	14659.6	15030.9	11305.2	4771.7
80°	796.3	701.4	649.8	732.4	1105.8	6059.0	5079.1	6634.6	6087.9	2776.8	1588.5
82.5°	552.9	503.4	488.9	614.8	885.0	4317.8	5906.3	3564.8	2989.3	1390.5	979.9
85°	352.8	301.2	334.2	447.7	689.0	1992.8	6083.7	2778.8	2209.5	883.0	552.9
87.5°	163.0	132.0	165.0	247.6	449.7	687.0	5788.7	3121.3	2275.5	466.2	348.6
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°	9023.5	9023.5	9023.5	9023.5	9023.5	9023.5	9023.5	9023.5	9023.5	9023.5	9023.5
2.5°	9027.6	8988.4	8957.5	8899.7	8835.8	8773.9	8718.2	8648.0	8627.4	8608.8	8637.7
5°	9056.5	9017.3	8903.8	8726.4	8530.4	8346.8	8163.2	8006.4	7909.5	7855.8	7886.8
7.5°	9099.8	9044.1	8808.9	8483.0	8130.2	7808.4	7476.3	7210.1	7014.1	6921.3	6948.1
10°	9139.0	9031.7	8648.0	8159.1	7643.4	7164.7	6640.7	6207.5	5885.7	5716.5	5757.8
12.5°	9155.5	8984.3	8423.2	7754.8	7047.2	6345.7	5574.2	4926.4	4464.3	4295.1	4260.1
15°	9172.0	8930.7	8175.6	7294.7	6327.2	5334.9	4253.9	3478.2	3094.5	3009.9	2991.3
17.5°	9176.2	8837.8	7895.0	6795.5	5483.4	4132.2	2908.8	2415.8	2417.8	2554.0	2570.5
20°	9132.8	8699.6	7554.6	6174.5	4472.5	2857.2	1997.0	1912.4	2223.9	2564.3	2605.5
22.5°	9033.8	8516.0	7168.9	5450.4	3315.2	1881.4	1545.2	1638.0	2040.3	2457.0	2504.5
25°	8908.0	8293.2	6712.9	4610.8	2195.0	1345.1	1295.6	1409.0	1681.3	1959.8	1986.7
27.5°	8736.7	8029.1	6201.3	3649.4	1425.5	1107.8	1140.8	1217.2	1328.6	1452.3	1464.7
30°	8516.0	7713.5	5654.6	2661.2	1076.9	996.4	1043.9	1085.1	1132.6	1202.7	1208.9
32.5°	8262.3	7410.2	5093.5	1838.1	955.2	938.7	975.8	996.4	1033.6	1076.9	1081.0
35°	8049.8	7121.4	4511.7	1299.7	903.6	895.3	920.1	928.3	963.4	1010.9	1015.0
37.5°	7928.0	6886.2	3911.4	1048.0	868.5	856.1	870.6	870.6	920.1	990.2	1000.5
40°	7936.3	6756.3	3311.1	946.9	839.6	823.1	825.2	825.2	889.1	965.5	971.7
42.5°	8161.2	6789.3	2778.8	907.7	816.9	798.4	788.1	794.2	847.9	897.4	901.5
45°	8689.3	7022.4	2279.6	883.0	794.2	788.1	765.4	763.3	783.9	806.6	806.6
47.5°	9555.7	7482.4	1941.3	866.5	775.7	773.6	746.8	720.0	717.9	726.2	726.2
50°	10964.8	8274.6	1714.3	847.9	763.3	746.8	715.9	674.6	660.2	666.3	666.3
52.5°	13077.3	9687.8	1627.7	823.1	736.5	709.7	674.6	633.3	621.0	623.0	623.0
55°	15847.8	11858.0	1615.3	794.2	707.6	664.3	635.4	604.5	590.0	594.1	594.1
57.5°	19233.2	14859.7	1836.1	748.9	668.4	618.9	602.4	581.8	571.4	577.6	575.6
60°	23348.9	18787.6	2723.1	701.4	629.2	577.6	577.6	561.1	552.9	559.1	557.0
62.5°	28089.6	23299.3	3828.9	666.3	588.0	544.6	552.9	544.6	536.4	540.5	538.4
65°	32293.9	26239.1	3585.5	639.5	546.7	513.7	528.1	524.0	517.8	521.9	519.9
67.5°	32415.7	25149.8	2013.5	610.6	507.5	482.7	503.4	501.3	497.2	501.3	499.2
70°	28929.2	21236.4	1134.6	557.0	466.2	445.6	474.5	472.4	468.3	476.5	474.5
72.5°	23177.6	15410.5	829.3	491.0	425.0	406.4	439.4	437.4	437.4	449.7	443.5
75°	13337.2	7930.1	662.2	420.8	381.7	367.2	396.1	398.2	402.3	418.8	406.4
77.5°	3802.1	2471.5	540.5	356.9	328.0	321.8	350.7	354.8	356.9	375.5	359.0
80°	1413.1	1138.8	445.6	299.1	268.2	270.3	297.1	303.3	305.3	323.9	303.3
82.5°	901.5	750.9	361.0	231.1	210.4	208.4	241.4	249.6	249.6	251.7	239.3
85°	526.1	449.7	272.3	167.1	148.5	142.3	179.5	193.9	187.7	183.6	175.4
87.5°	352.8	309.4	167.1	92.8	80.5	76.3	105.2	115.5	111.4	105.2	99.0
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)