

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: P191078

Luminaire Tested: **GLEON-AF-10-LED-E1-SL2-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191078
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-10-LED-E1-SL2-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 615mA 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: 38900.8 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

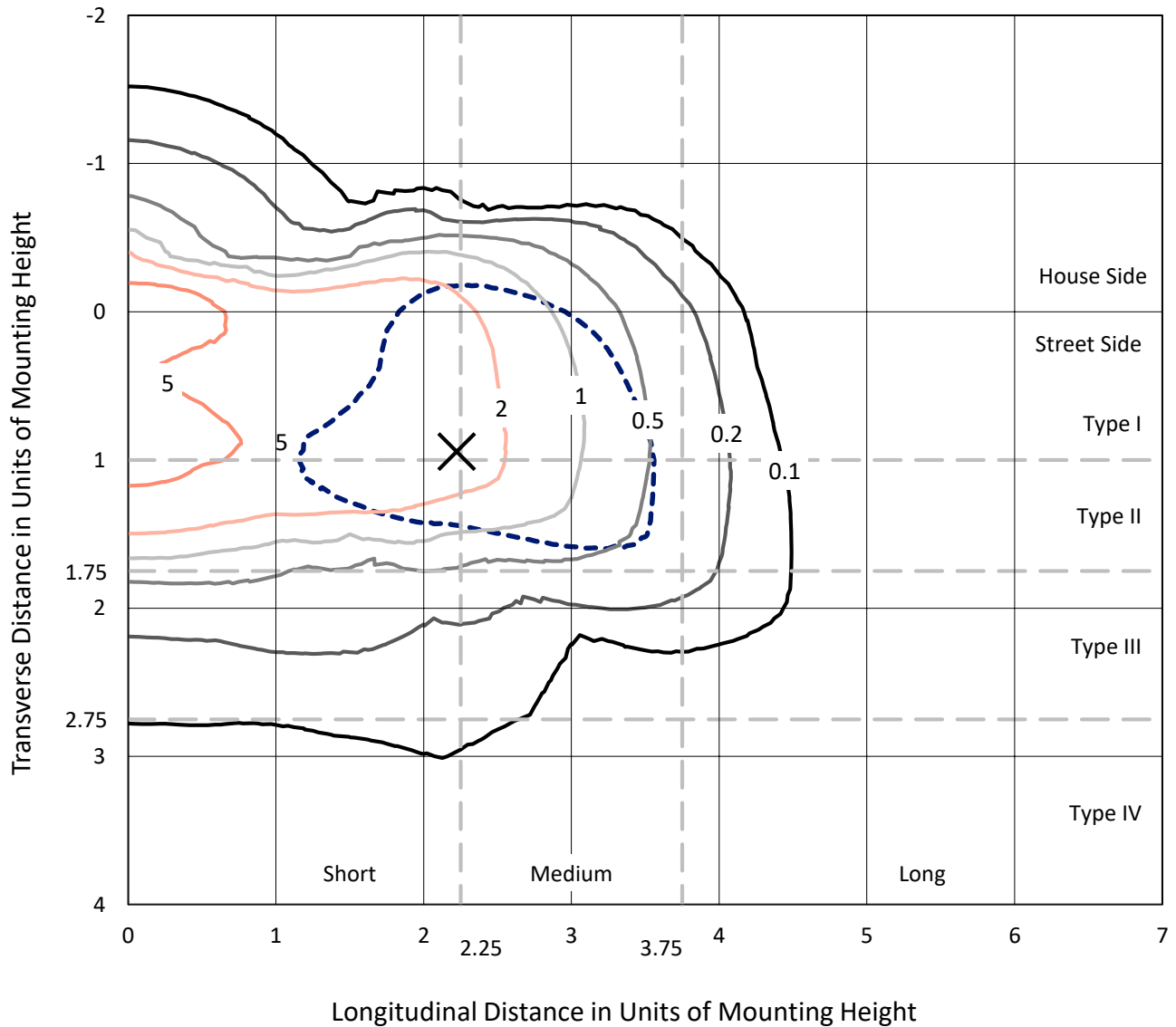
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

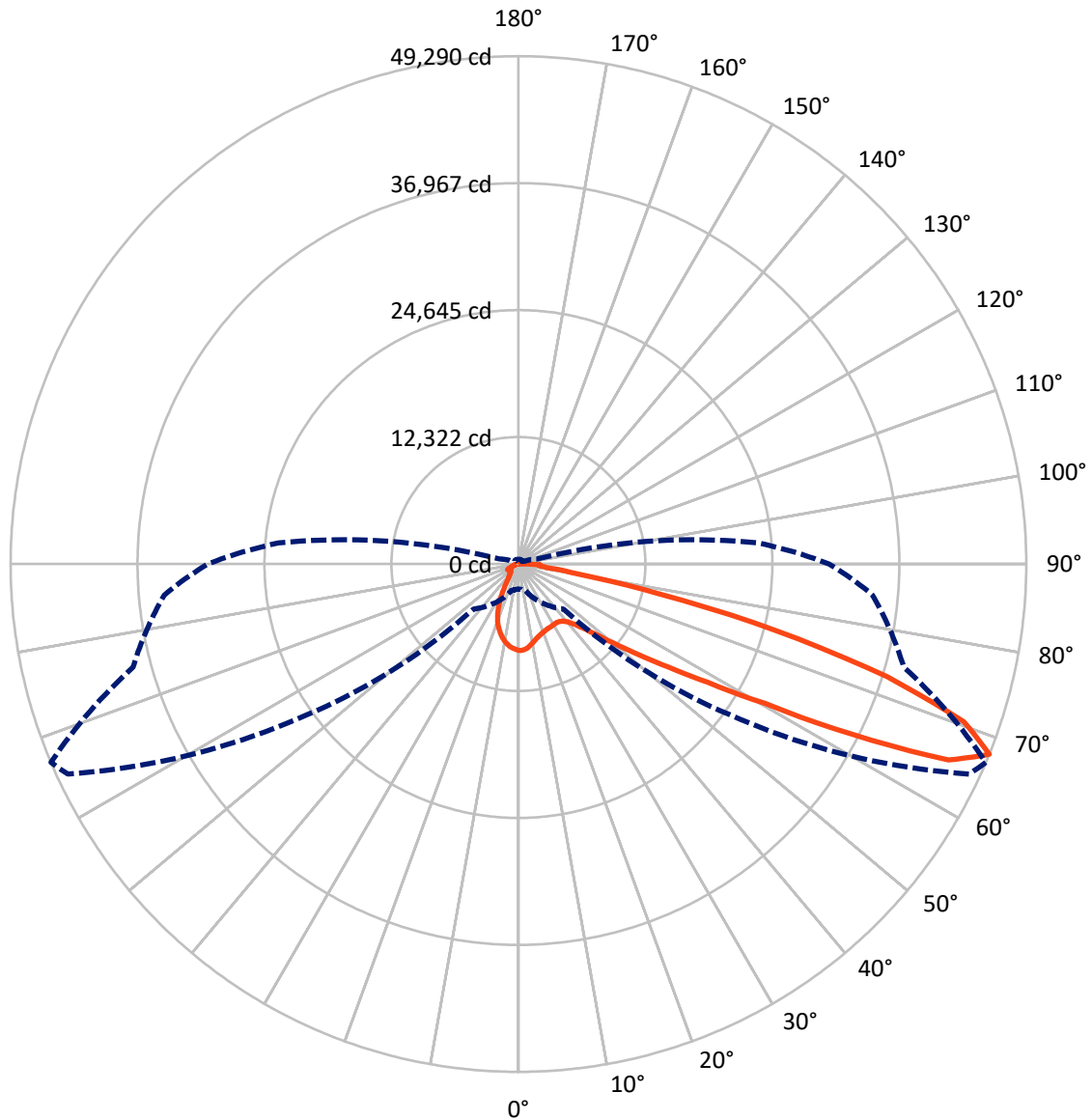
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.3 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	6445.4	0.0	6445.4
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	32455.4	0.0	32455.4
	% Fixture	83.4	0.0	83.4
Total	Lumens	38900.8	0.0	38900.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	715.9	1.8
10°-20°	1656.4	4.3
20°-30°	2245.3	5.8
30°-40°	3191.9	8.2
40°-50°	5340.1	13.7
50°-60°	8448.1	21.7
60°-70°	10762.0	27.7
70°-80°	5637.1	14.5
80°-90°	904.1	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°	38900.8	100.0
0°-180°	38900.8	100.0



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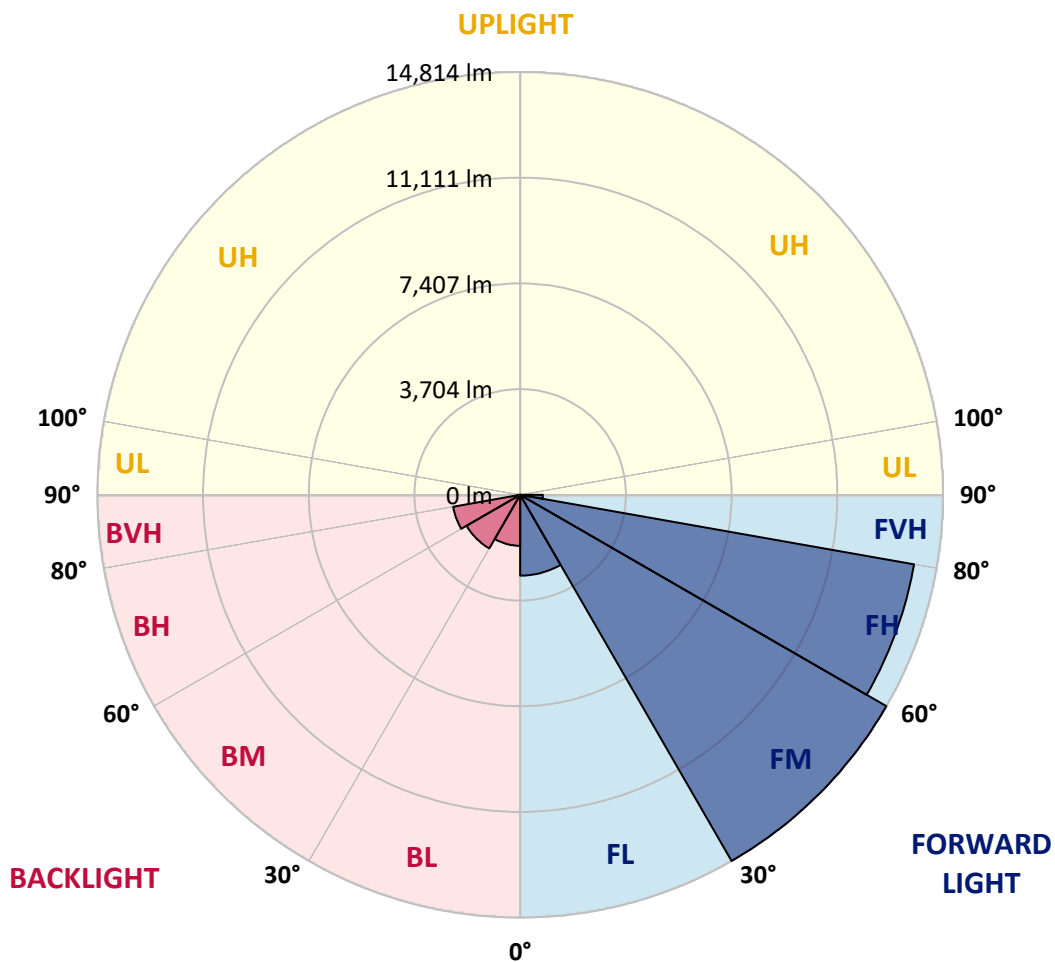
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2831.0	7.3			
FM	(30°-60°)	14814.2	38.1			
FH	(60°-80°)	14015.1	36.0			G5
FVH	(80°-90°)	795.0	2.0			G5
BL	(0°-30°)	1786.5	4.6	B3/2500		
BM	(30°-60°)	2165.9	5.6	B2/2500		
BH	(60°-80°)	2384.0	6.1	B3/2500		G3/2500
BVH	(80°-90°)	109.1	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°	8390.8	8390.8	8390.8	8390.8	8390.8	8390.8	8390.8	8390.8	8390.8	8390.8	8390.8
2.5°	8045.5	8058.9	8101.2	8128.0	8248.9	8300.6	8337.0	8373.6	8379.3	8396.6	8379.3
5°	7201.5	7230.2	7308.9	7397.1	7631.1	7815.3	8009.1	8210.5	8246.9	8377.4	8413.9
7.5°	6547.3	6539.6	6604.8	6710.4	6950.1	7205.3	7544.8	7945.8	8024.4	8317.9	8459.9
10°	6069.6	6063.8	6132.9	6242.3	6470.6	6712.3	7095.9	7644.6	7755.8	8223.9	8504.0
12.5°	5716.7	5718.6	5787.7	5908.5	6140.6	6384.2	6773.7	7353.0	7495.0	8114.6	8550.0
15°	5482.6	5498.0	5553.6	5682.1	5908.5	6152.1	6533.9	7134.3	7293.5	8028.2	8601.8
17.5°	5403.9	5428.9	5448.0	5542.0	5735.8	5979.5	6353.5	6973.1	7141.9	7968.8	8647.8
20°	5476.9	5505.6	5469.2	5501.8	5624.6	5839.4	6211.6	6846.5	7019.2	7901.6	8653.7
22.5°	5789.5	5816.4	5709.0	5615.0	5607.3	5737.7	6094.5	6746.8	6925.2	7851.8	8655.5
25°	6340.1	6357.3	6177.1	5958.4	5745.4	5701.3	6012.1	6677.7	6867.7	7807.7	8619.1
27.5°	7015.4	7028.8	6821.6	6499.3	6071.5	5787.7	5983.2	6637.4	6835.1	7769.3	8557.7
30°	7836.4	7899.7	7621.6	7214.9	6591.4	6042.8	6040.8	6616.3	6798.6	7704.0	8436.9
32.5°	8676.7	8703.5	8511.7	8099.2	7291.6	6491.6	6201.9	6631.7	6789.0	7625.4	8283.3
35°	9528.4	9563.0	9438.3	9106.3	8248.9	7149.6	6516.6	6721.8	6848.5	7598.5	8175.9
37.5°	10631.4	10677.5	10504.8	10121.2	9413.3	8041.6	7040.3	6948.2	7030.7	7675.3	8143.3
40°	12375.1	12354.1	11849.6	11277.9	10687.1	9183.0	7788.4	7331.9	7379.9	7922.8	8243.0
42.5°	14404.8	14353.0	13484.0	12586.2	12087.4	10564.3	8778.4	7997.5	7987.9	8410.0	8594.1
45°	16023.9	15981.7	15199.0	14092.1	13693.1	12137.3	10057.9	8989.3	8918.4	9183.0	9242.6
47.5°	16900.6	16902.4	16451.6	15548.1	15538.5	14136.3	11701.8	10424.3	10301.4	10426.1	10362.9
50°	16593.6	16633.9	16585.9	16298.2	17222.8	16756.7	13848.5	12425.1	12177.6	12300.4	12056.7
52.5°	15108.8	15160.6	15444.5	15885.7	17930.7	19923.8	17002.3	14911.2	14623.5	14579.4	14308.8
55°	12476.8	12540.1	13119.5	14318.4	17341.8	22051.2	21978.4	18080.3	17621.9	17205.5	17090.4
57.5°	8599.9	8705.4	9637.7	11418.0	15436.8	22694.0	27904.2	22598.0	21665.7	20211.6	20238.5
60°	4847.7	4970.4	6069.6	7686.8	11592.5	21995.6	32412.2	29440.7	27472.5	23731.7	23931.2
62.5°	3082.8	3215.1	4049.7	5340.6	6955.9	18235.7	34259.5	38953.8	36454.2	28071.0	28266.7
65°	2495.8	2553.3	2946.6	4408.3	5051.0	10986.3	32857.3	46790.2	45857.9	33578.6	32665.4
67.5°	2436.3	2455.5	2658.9	3700.4	4843.8	6175.1	26208.3	48255.8	49289.8	38721.7	34497.5
70°	2407.5	2474.6	2996.4	3531.6	4638.6	5208.3	15749.6	44238.7	45871.3	40066.3	32059.3
72.5°	1168.3	1164.4	1507.8	3194.1	5225.5	5402.0	8091.5	35794.3	37432.5	34712.3	26344.5
75°	941.9	861.3	823.0	1170.2	5024.1	5578.6	5156.5	24629.5	25815.1	23273.3	16194.6
77.5°	894.0	798.0	730.9	732.8	2123.6	5916.1	4368.0	13631.7	13977.0	10512.5	4437.2
80°	740.5	652.2	604.3	681.0	1028.3	5634.1	4723.0	6169.4	5661.0	2582.0	1477.1
82.5°	514.1	468.1	454.6	571.6	823.0	4015.1	5492.2	3314.9	2779.7	1292.9	911.2
85°	328.1	280.1	310.8	416.2	640.7	1853.1	5657.1	2584.0	2054.5	821.0	514.1
87.5°	151.5	122.8	153.4	230.2	418.2	638.8	5382.9	2902.4	2116.0	433.5	324.2
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°	8390.8	8390.8	8390.8	8390.8	8390.8	8390.8	8390.8	8390.8	8390.8	8390.8	8390.8
2.5°	8394.6	8358.2	8329.4	8275.7	8216.2	8158.6	8106.9	8041.6	8022.5	8005.2	8032.1
5°	8421.5	8385.0	8279.6	8114.6	7932.4	7761.5	7590.8	7445.0	7354.9	7305.0	7333.8
7.5°	8461.7	8410.0	8191.3	7888.2	7560.1	7260.9	6952.1	6704.6	6522.3	6436.0	6461.0
10°	8498.3	8398.4	8041.6	7587.0	7107.5	6662.4	6175.1	5772.3	5473.0	5315.7	5354.1
12.5°	8513.6	8354.3	7832.5	7211.0	6553.0	5900.8	5183.4	4581.0	4151.2	3994.0	3961.4
15°	8529.0	8304.5	7602.4	6783.2	5883.5	4960.8	3955.6	3234.3	2877.5	2798.9	2781.6
17.5°	8532.7	8218.2	7341.5	6319.0	5098.9	3842.4	2704.9	2246.4	2248.2	2374.9	2390.2
20°	8492.4	8089.6	7024.9	5741.6	4158.9	2656.9	1857.0	1778.3	2068.0	2384.5	2422.9
22.5°	8400.4	7918.9	6666.3	5068.2	3082.8	1749.6	1436.8	1523.2	1897.3	2284.8	2328.8
25°	8283.3	7711.7	6242.3	4287.5	2041.1	1250.8	1204.7	1310.2	1563.5	1822.4	1847.3
27.5°	8124.2	7466.2	5766.5	3393.5	1325.5	1030.1	1060.8	1131.8	1235.4	1350.5	1362.1
30°	7918.9	7172.6	5258.2	2474.6	1001.4	926.6	970.7	1009.0	1053.1	1118.4	1124.1
32.5°	7683.0	6890.7	4736.4	1709.2	888.2	872.9	907.4	926.6	961.1	1001.4	1005.3
35°	7485.3	6622.1	4195.4	1208.5	840.3	832.6	855.6	863.3	895.9	940.0	943.8
37.5°	7372.2	6403.4	3637.2	974.6	807.6	796.1	809.6	809.6	855.6	920.8	930.4
40°	7379.9	6282.6	3079.0	880.6	780.7	765.4	767.3	767.3	826.9	897.7	903.6
42.5°	7589.0	6313.2	2584.0	844.0	759.6	742.4	732.8	738.6	788.4	834.5	838.3
45°	8080.0	6530.0	2119.8	821.0	738.6	732.8	711.7	709.8	729.0	750.0	750.0
47.5°	8885.8	6957.8	1805.2	805.7	721.3	719.3	694.5	669.5	667.6	675.2	675.2
50°	10196.0	7694.4	1594.2	788.4	709.8	694.5	665.6	627.3	613.9	619.6	619.6
52.5°	12160.3	9008.5	1513.6	765.4	684.9	659.9	627.3	588.9	577.5	579.3	579.3
55°	14736.6	11026.6	1502.1	738.6	658.0	617.7	590.9	562.1	548.6	552.5	552.5
57.5°	17884.7	13817.8	1707.3	696.3	621.5	575.5	560.2	540.9	531.4	537.2	535.2
60°	21711.7	17470.3	2532.2	652.2	585.1	537.2	537.2	521.8	514.1	519.9	517.9
62.5°	26120.0	21665.7	3560.5	619.6	546.8	506.5	514.1	506.5	498.8	502.6	500.7
65°	30029.6	24399.3	3334.1	594.6	508.4	477.6	491.1	487.2	481.5	485.3	483.4
67.5°	30142.8	23386.4	1872.3	567.8	471.9	448.9	468.1	466.2	462.3	466.2	464.2
70°	26900.8	19747.3	1055.1	517.9	433.5	414.4	441.2	439.3	435.5	443.1	441.2
72.5°	21552.6	14330.0	771.2	456.5	395.2	377.9	408.6	406.7	406.7	418.2	412.5
75°	12402.1	7374.0	615.8	391.4	354.9	341.5	368.4	370.2	374.1	389.4	377.9
77.5°	3535.5	2298.2	502.6	331.8	305.0	299.2	326.1	330.0	331.8	349.1	333.8
80°	1314.1	1059.0	414.4	278.1	249.4	251.3	276.2	282.0	283.9	301.2	282.0
82.5°	838.3	698.3	335.7	214.8	195.7	193.7	224.4	232.1	232.1	234.1	222.5
85°	489.2	418.2	253.2	155.4	138.1	132.4	166.9	180.3	174.6	170.7	163.1
87.5°	328.1	287.8	155.4	86.3	74.8	71.0	97.8	107.4	103.6	97.8	92.1
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)