

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: P299202

Luminaire Tested: **GLNA-AF-08-LED-E1-SL2-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299202
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: GLNA-AF-08-LED-E1-SL2-7060-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Narrow OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37624.2 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 334
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

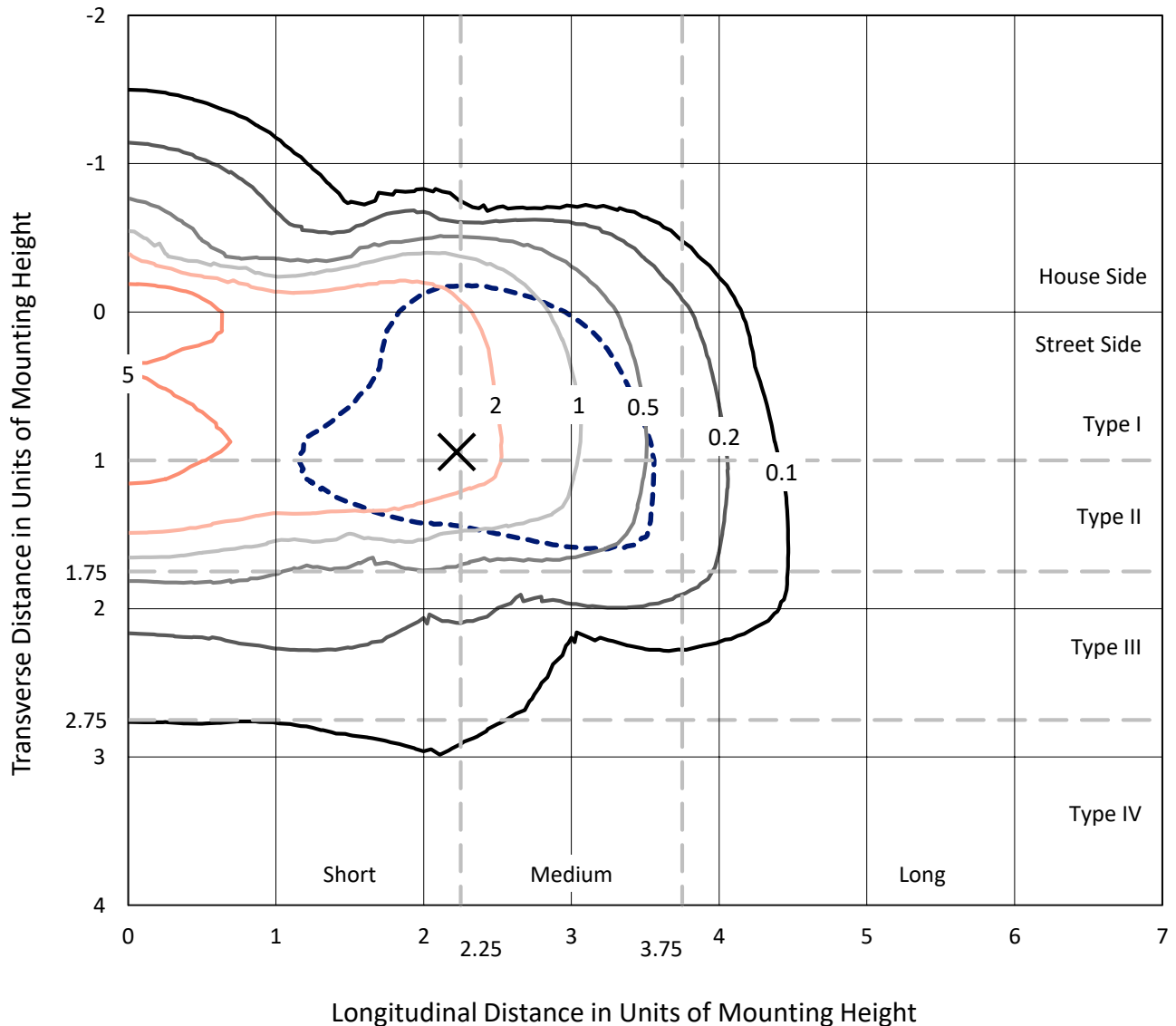


REPORT NUMBER: P299202

CATALOG NUMBER: GLNA-AF-08-LED-E1-SL2-7060-800

Iso-Footcandle Lines of Horizontal Illumination

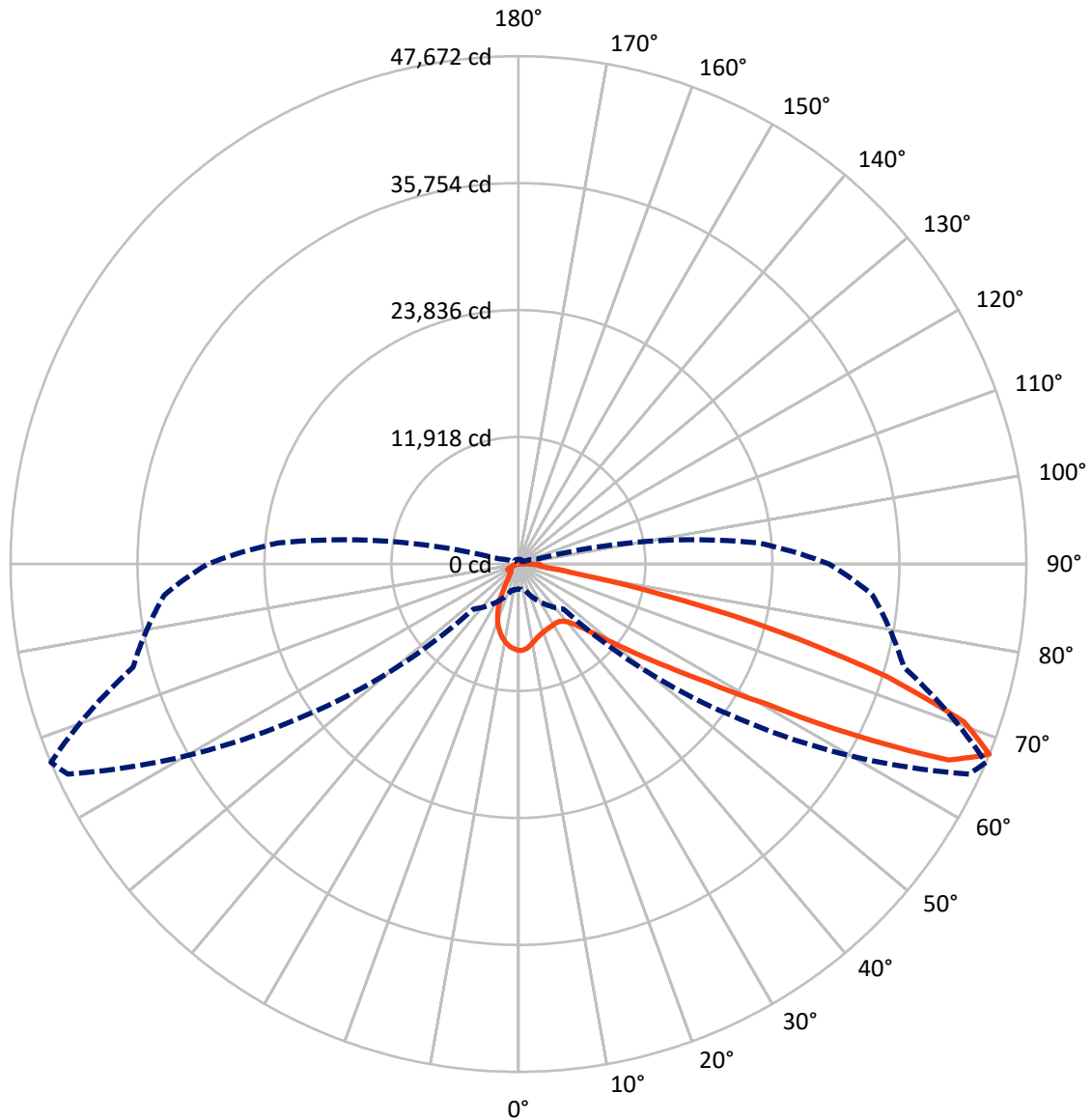
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P299202
CATALOG NUMBER: GLNA-AF-08-LED-E1-SL2-7060-800

Luminous Intensity Polar Plot



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

REPORT NUMBER: P299202

CATALOG NUMBER: GLNA-AF-08-LED-E1-SL2-7060-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6233.9	0.0	6233.9
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	31390.3	0.0	31390.3
	% Fixture	83.4	0.0	83.4
Total	Lumens	37624.2	0.0	37624.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	692.4	1.8
10°-20°	1602.0	4.3
20°-30°	2171.6	5.8
30°-40°	3087.1	8.2
40°-50°	5164.9	13.7
50°-60°	8170.8	21.7
60°-70°	10408.8	27.7
70°-80°	5452.1	14.5
80°-90°	874.4	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°	37624.2	100.0
0°-180°	37624.2	100.0

Coefficient of Utilization



REPORT NUMBER: P299202

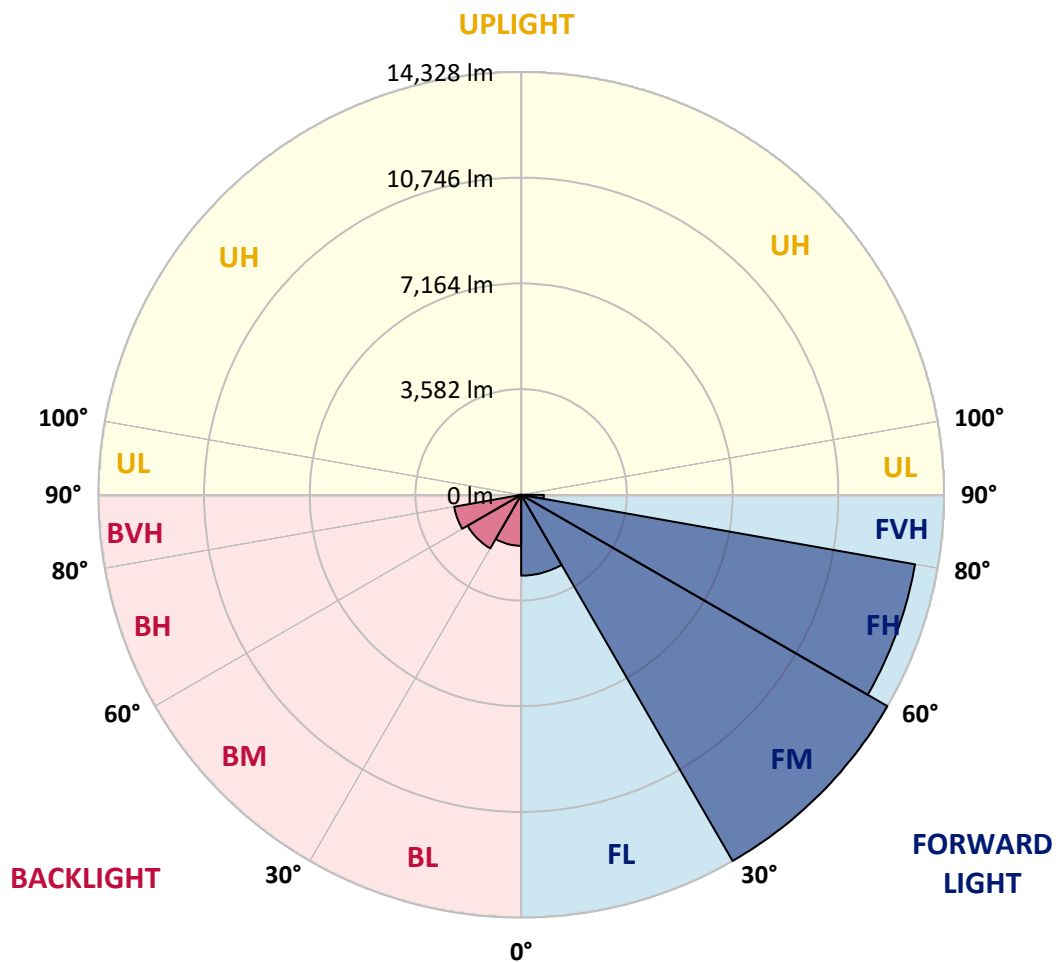
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2738.1	7.3			
FM (30°-60°)	14328.1	38.1			
FH (60°-80°)	13555.2	36.0			G5
FVH (80°-90°)	768.9	2.0			G5
BL (0°-30°)	1727.9	4.6	B3/2500		
BM (30°-60°)	2094.8	5.6	B2/2500		
BH (60°-80°)	2305.7	6.1	B3/2500		G3/2500
BVH (80°-90°)	105.5	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





REPORT NUMBER: P299202

CATALOG NUMBER: GLNA-AF-08-LED-E1-SL2-7060-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8115.5	8115.5	8115.5	8115.5	8115.5	8115.5	8115.5	8115.5	8115.5	8115.5	8115.5
2.5°	7781.5	7794.5	7835.3	7861.3	7978.2	8028.2	8063.5	8098.8	8104.3	8121.0	8104.3
5°	6965.1	6992.9	7069.0	7154.4	7380.7	7558.8	7746.2	7941.0	7976.3	8102.5	8137.7
7.5°	6332.4	6325.0	6388.1	6490.1	6722.1	6968.8	7297.2	7685.0	7761.1	8044.9	8182.2
10°	5870.4	5864.9	5931.7	6037.4	6258.2	6492.0	6863.1	7393.7	7501.3	7954.0	8224.9
12.5°	5529.0	5530.9	5597.7	5714.6	5939.1	6174.7	6551.4	7111.7	7249.0	7848.3	8269.4
15°	5302.7	5317.5	5371.3	5495.6	5714.6	5950.2	6319.4	6900.2	7054.2	7764.8	8319.5
17.5°	5226.6	5250.7	5269.3	5360.2	5547.6	5783.2	6145.0	6744.3	6907.6	7707.3	8364.1
20°	5297.1	5325.0	5289.7	5321.2	5440.0	5647.8	6007.7	6621.9	6788.9	7642.3	8369.6
22.5°	5599.5	5625.5	5521.6	5430.7	5423.3	5549.5	5894.6	6525.4	6697.9	7594.1	8371.5
25°	6132.0	6148.7	5974.3	5762.8	5556.9	5514.2	5814.8	6458.6	6642.3	7551.4	8336.2
27.5°	6785.1	6798.1	6597.7	6286.0	5872.3	5597.7	5786.9	6419.6	6610.7	7514.3	8276.9
30°	7579.2	7640.5	7371.4	6978.1	6375.1	5844.5	5842.6	6399.2	6575.5	7451.2	8160.0
32.5°	8391.9	8417.9	8232.3	7833.4	7052.3	6278.6	5998.5	6414.1	6566.2	7375.2	8011.5
35°	9215.7	9249.1	9128.5	8807.5	7978.2	6915.0	6302.7	6501.3	6623.7	7349.2	7907.6
37.5°	10282.5	10327.1	10160.1	9789.0	9104.4	7777.8	6809.3	6720.2	6800.0	7423.4	7876.1
40°	11969.1	11948.7	11460.7	10907.8	10336.3	8881.7	7532.9	7091.3	7137.7	7662.7	7972.6
42.5°	13932.1	13882.0	13041.5	12173.2	11690.8	10217.6	8490.2	7735.1	7725.8	8134.0	8312.1
45°	15498.0	15457.2	14700.2	13629.7	13243.7	11739.0	9727.8	8694.3	8625.7	8881.7	8939.2
47.5°	16345.9	16347.8	15911.8	15037.9	15028.6	13672.3	11317.8	10082.2	9963.4	10084.0	10022.8
50°	16049.1	16088.0	16041.7	15763.3	16657.6	16206.8	13394.0	12017.3	11778.0	11896.7	11661.1
52.5°	14613.0	14663.1	14937.7	15364.4	17342.3	19270.0	16444.3	14421.9	14143.6	14100.9	13839.3
55°	12067.4	12128.6	12689.0	13848.6	16772.7	21327.6	21257.1	17487.0	17043.6	16640.9	16529.6
57.5°	8317.7	8419.7	9321.5	11043.2	14930.3	21949.2	26988.4	21856.4	20954.7	19548.3	19574.3
60°	4688.6	4807.3	5870.4	7434.5	11212.1	21273.8	31348.6	28474.6	26571.0	22953.0	23145.9
62.5°	2981.6	3109.6	3916.7	5165.4	6727.6	17637.3	33135.3	37675.4	35257.9	27149.8	27339.1
65°	2413.9	2469.5	2849.9	4263.7	4885.2	10625.8	31779.0	45254.7	44353.0	32476.6	31593.5
67.5°	2356.3	2374.9	2571.6	3579.0	4684.8	5972.5	25348.3	46672.2	47672.2	37450.9	33365.4
70°	2328.5	2393.4	2898.1	3415.8	4486.3	5037.4	15232.7	42787.0	44365.9	38751.6	31007.2
72.5°	1129.9	1126.2	1458.3	3089.2	5054.1	5224.8	7826.0	34619.6	36204.1	33573.2	25480.0
75°	911.0	833.1	796.0	1131.8	4859.3	5395.5	4987.3	23821.3	24967.9	22509.5	15663.2
77.5°	864.6	771.8	706.9	708.8	2053.9	5722.0	4224.7	13184.4	13518.3	10167.5	4291.5
80°	716.2	630.8	584.4	658.7	994.5	5449.3	4568.0	5966.9	5475.2	2497.3	1428.6
82.5°	497.2	452.7	439.7	552.9	796.0	3883.3	5312.0	3206.1	2688.5	1250.5	881.3
85°	317.3	270.9	300.6	402.6	619.7	1792.3	5471.5	2499.2	1987.1	794.1	497.2
87.5°	146.6	118.7	148.4	222.6	404.5	617.8	5206.2	2807.2	2046.5	419.3	313.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P299202

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8115.5	8115.5	8115.5	8115.5	8115.5	8115.5	8115.5	8115.5	8115.5	8115.5	8115.5
2.5°	8119.2	8083.9	8056.1	8004.1	7946.6	7890.9	7840.9	7777.8	7759.2	7742.5	7768.5
5°	8145.1	8109.9	8007.8	7848.3	7672.0	7506.9	7341.8	7200.7	7113.5	7065.3	7093.1
7.5°	8184.1	8134.0	7922.5	7629.3	7312.1	7022.6	6723.9	6484.6	6308.3	6224.8	6248.9
10°	8219.4	8122.9	7777.8	7338.0	6874.2	6443.7	5972.5	5582.9	5293.4	5141.3	5178.4
12.5°	8234.2	8080.2	7575.5	6974.4	6338.0	5707.2	5013.2	4430.7	4015.1	3862.9	3831.4
15°	8249.0	8032.0	7352.9	6560.6	5690.5	4798.0	3825.8	3128.2	2783.1	2707.0	2690.3
17.5°	8252.7	7948.5	7100.6	6111.6	4931.6	3716.3	2616.1	2172.7	2174.5	2297.0	2311.8
20°	8213.8	7824.2	6794.4	5553.2	4022.5	2569.7	1796.0	1719.9	2000.1	2306.2	2343.4
22.5°	8124.7	7659.0	6447.5	4901.9	2981.6	1692.1	1389.7	1473.2	1835.0	2209.8	2252.4
25°	8011.5	7458.6	6037.4	4146.8	1974.1	1209.7	1165.2	1267.2	1512.1	1762.6	1786.7
27.5°	7857.6	7221.2	5577.3	3282.2	1282.1	996.3	1026.0	1094.7	1194.9	1306.2	1317.3
30°	7659.0	6937.3	5085.6	2393.4	968.5	896.2	938.8	975.9	1018.6	1081.7	1087.3
32.5°	7430.8	6664.5	4580.9	1653.1	859.0	844.2	877.6	896.2	929.5	968.5	972.2
35°	7239.7	6404.8	4057.7	1168.9	812.7	805.2	827.5	834.9	866.5	909.1	912.8
37.5°	7130.2	6193.3	3517.8	942.5	781.1	770.0	783.0	783.0	827.5	890.6	899.9
40°	7137.7	6076.4	2977.9	851.6	755.1	740.3	742.2	742.2	799.7	868.3	873.9
42.5°	7339.9	6106.1	2499.2	816.4	734.7	718.0	708.8	714.3	762.6	807.1	810.8
45°	7814.9	6315.7	2050.2	794.1	714.3	708.8	688.3	686.5	705.0	725.5	725.5
47.5°	8594.1	6729.5	1745.9	779.3	697.6	695.8	671.6	647.5	645.7	653.1	653.1
50°	9861.4	7441.9	1541.8	762.6	686.5	671.6	643.8	606.7	593.7	599.3	599.3
52.5°	11761.3	8712.9	1463.9	740.3	662.4	638.3	606.7	569.6	558.5	560.3	560.3
55°	14253.1	10664.7	1452.8	714.3	636.4	597.4	571.5	543.6	530.6	534.4	534.4
57.5°	17297.7	13364.3	1651.3	673.5	601.1	556.6	541.8	523.2	513.9	519.5	517.7
60°	20999.2	16897.0	2449.1	630.8	565.9	519.5	519.5	504.7	497.2	502.8	501.0
62.5°	25262.9	20954.7	3443.6	599.3	528.8	489.8	497.2	489.8	482.4	486.1	484.3
65°	29044.2	23598.6	3224.7	575.2	491.7	462.0	475.0	471.3	465.7	469.4	467.6
67.5°	29153.7	22619.0	1810.9	549.2	456.4	434.2	452.7	450.9	447.1	450.9	449.0
70°	26018.1	19099.3	1020.5	501.0	419.3	400.8	426.7	424.9	421.2	428.6	426.7
72.5°	20845.2	13859.7	745.9	441.6	382.2	365.5	395.2	393.3	393.3	404.5	398.9
75°	11995.1	7132.1	595.6	378.5	343.2	330.3	356.2	358.1	361.8	376.6	365.5
77.5°	3419.5	2222.8	486.1	321.0	295.0	289.4	315.4	319.1	321.0	337.7	322.8
80°	1270.9	1024.2	400.8	269.0	241.2	243.1	267.2	272.7	274.6	291.3	272.7
82.5°	810.8	675.4	324.7	207.8	189.2	187.4	217.1	224.5	224.5	226.4	215.2
85°	473.1	404.5	244.9	150.3	133.6	128.0	161.4	174.4	168.8	165.1	157.7
87.5°	317.3	278.3	150.3	83.5	72.4	68.6	94.6	103.9	100.2	94.6	89.1
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)