

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: P299126

Luminaire Tested: **GLNA-AF-06-LED-E1-SL2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299126
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-06-LED-E1-SL2-7030
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Narrow OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33618.8 lumens
Efficiency: N/A
Efficacy: 101.0 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

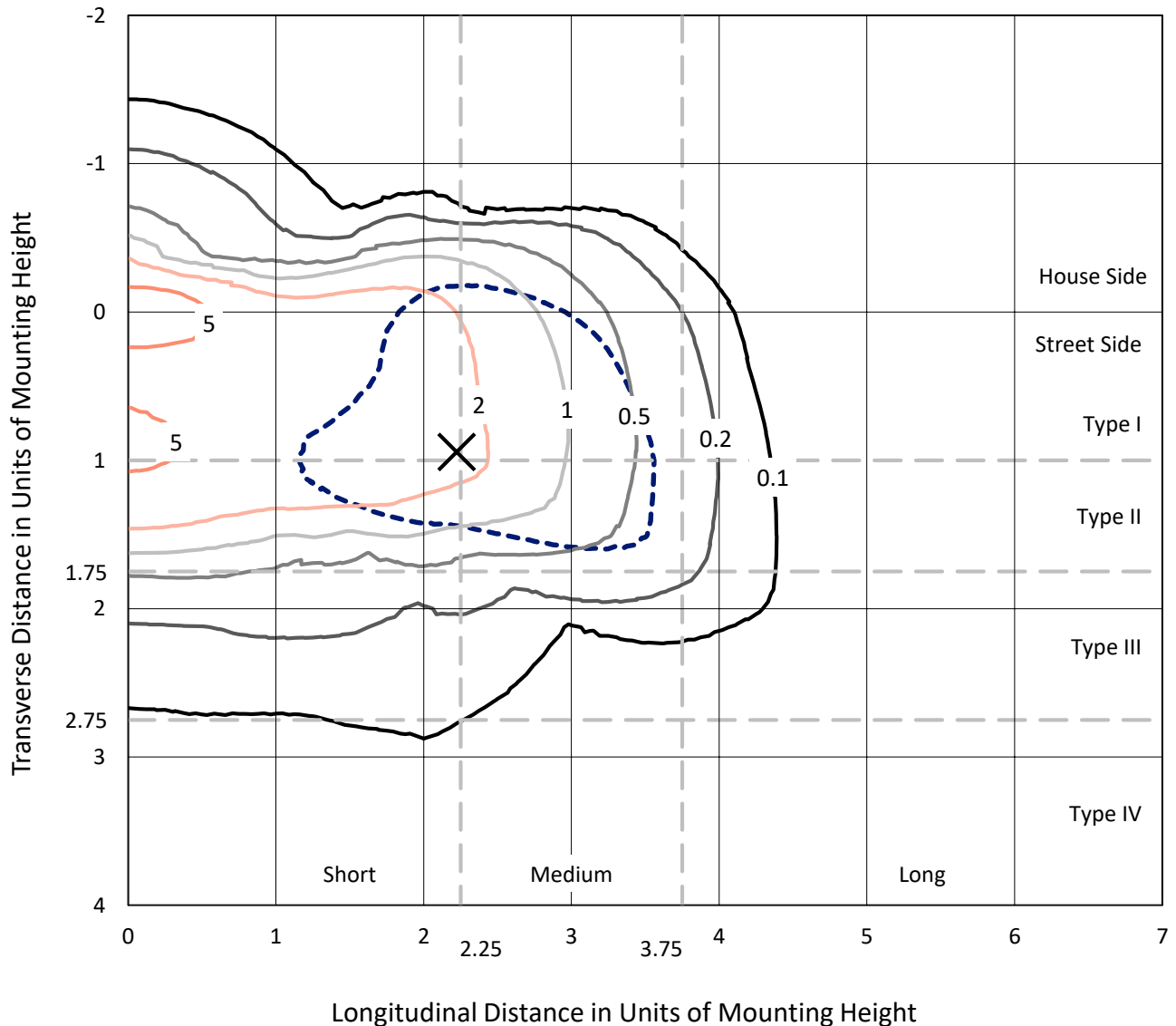
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P299126
 CATALOG NUMBER: GLNA-AF-06-LED-E1-SL2-7030

Iso-Footcandle Lines of Horizontal Illumination

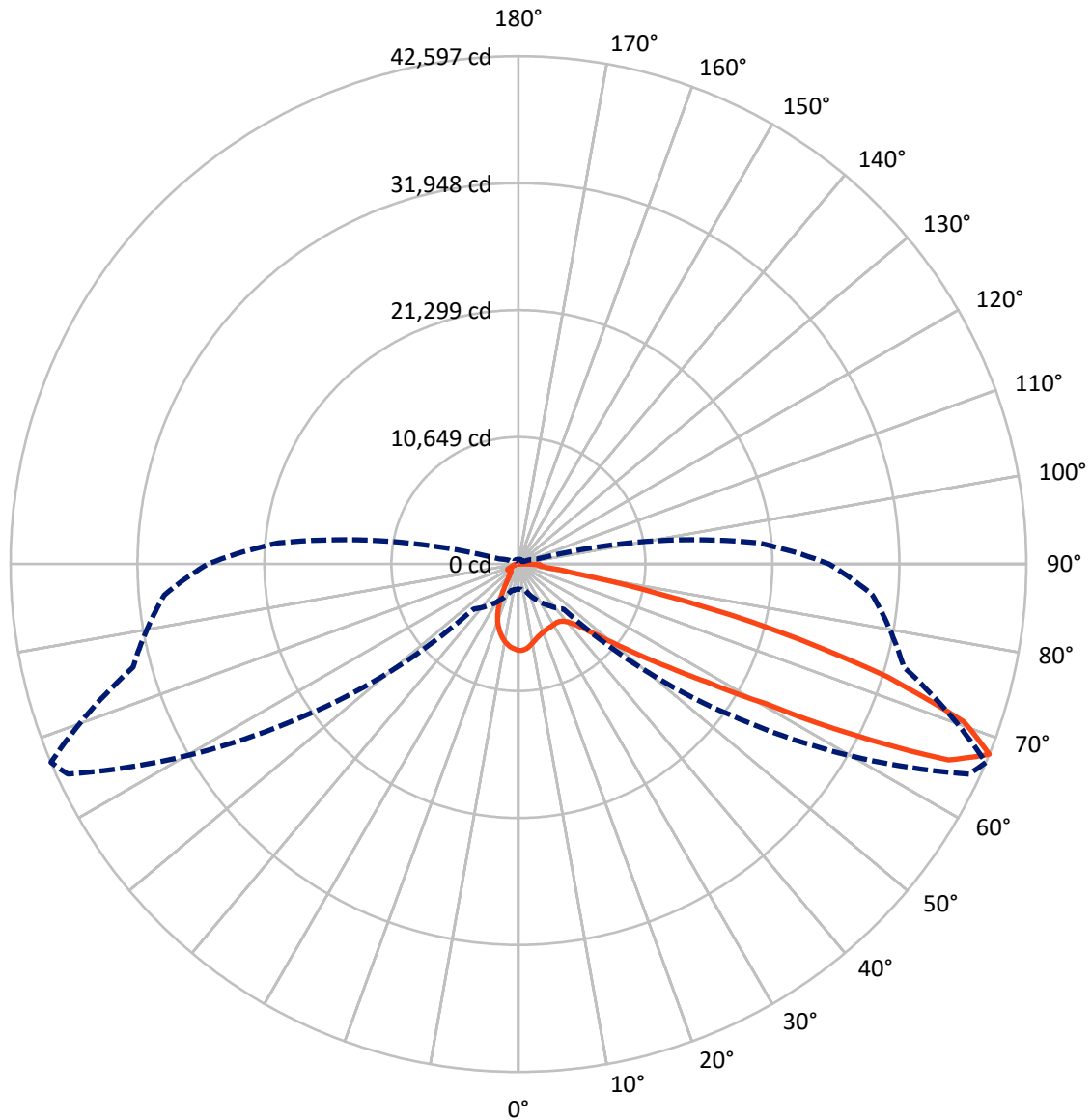
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P299126
CATALOG NUMBER: GLNA-AF-06-LED-E1-SL2-7030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P299126

CATALOG NUMBER: GLNA-AF-06-LED-E1-SL2-7030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5570.3	0.0	5570.3
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	28048.5	0.0	28048.5
	% Fixture	83.4	0.0	83.4
Total	Lumens	33618.8	0.0	33618.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	618.7	1.8
10°-20°	1431.5	4.3
20°-30°	1940.4	5.8
30°-40°	2758.5	8.2
40°-50°	4615.0	13.7
50°-60°	7301.0	21.7
60°-70°	9300.7	27.7
70°-80°	4871.7	14.5
80°-90°	781.3	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°	33618.8	100.0
0°-180°	33618.8	100.0

Coefficient of Utilization



REPORT NUMBER: P299126

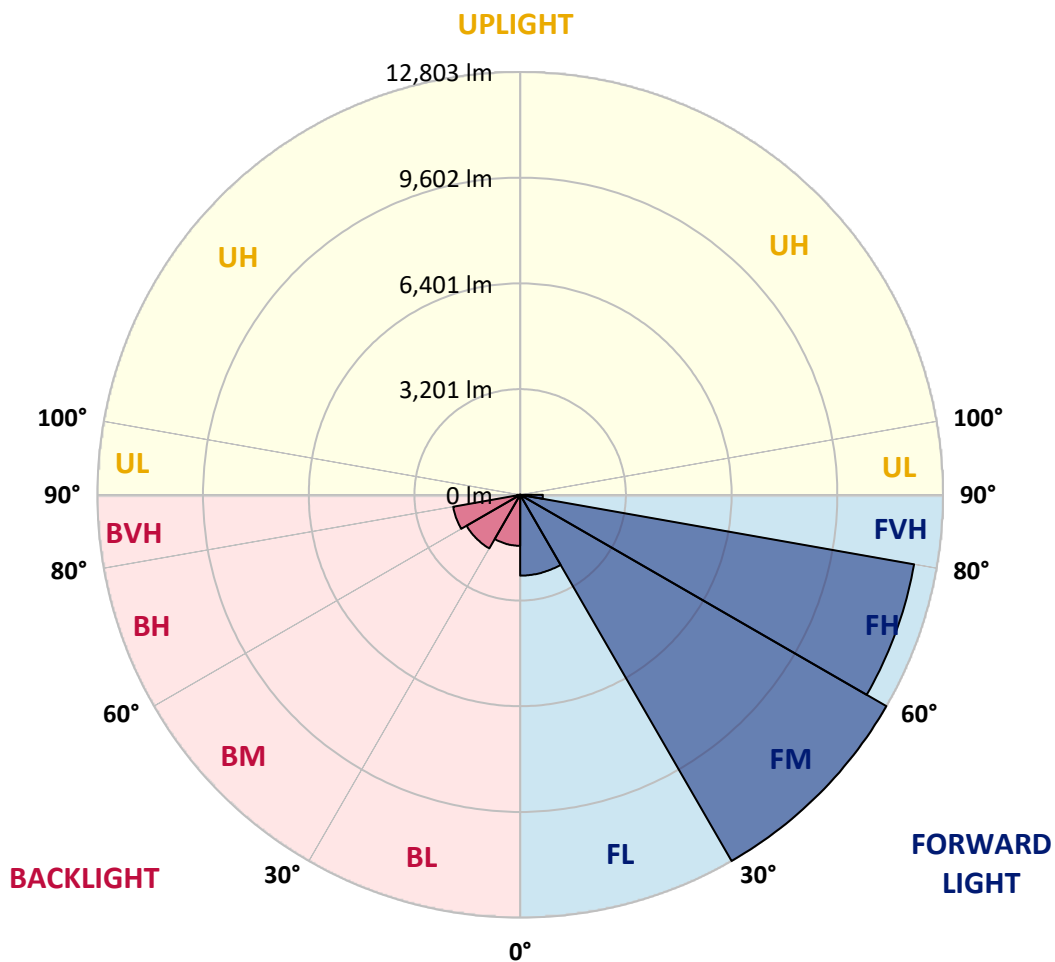
CATALOG NUMBER: GLNA-AF-06-LED-E1-SL2-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2446.6	7.3			
FM	(30°-60°)	12802.7	38.1			
FH	(60°-80°)	12112.1	36.0			G5
FVH	(80°-90°)	687.0	2.0			G4/750
BL	(0°-30°)	1543.9	4.6	B3/2500		
BM	(30°-60°)	1871.8	5.6	B2/2500		
BH	(60°-80°)	2060.3	6.1	B3/2500		G3/2500
BVH	(80°-90°)	94.3	0.3			G1/100
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: P299126

CATALOG NUMBER: GLNA-AF-06-LED-E1-SL2-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7251.5	7251.5	7251.5	7251.5	7251.5	7251.5	7251.5	7251.5	7251.5	7251.5	7251.5
2.5°	6953.1	6964.7	7001.1	7024.4	7128.8	7173.6	7205.1	7236.6	7241.5	7256.5	7241.5
5°	6223.6	6248.5	6316.5	6392.7	6595.0	6754.1	6921.6	7095.6	7127.1	7239.9	7271.4
7.5°	5658.3	5651.6	5708.0	5799.2	6006.4	6226.9	6520.4	6866.9	6934.8	7188.5	7311.2
10°	5245.5	5240.5	5300.2	5394.7	5592.0	5800.9	6132.4	6606.6	6702.7	7107.3	7349.3
12.5°	4940.4	4942.1	5001.8	5106.2	5306.8	5517.4	5853.9	6354.6	6477.3	7012.8	7389.1
15°	4738.2	4751.4	4799.5	4910.6	5106.2	5316.8	5646.7	6165.6	6303.2	6938.2	7433.9
17.5°	4670.2	4691.7	4708.3	4789.6	4957.0	5167.6	5490.8	6026.3	6172.2	6886.8	7473.6
20°	4733.2	4758.1	4726.6	4754.7	4860.8	5046.5	5368.2	5916.9	6066.1	6828.7	7478.6
22.5°	5003.4	5026.6	4933.8	4852.6	4845.9	4958.7	5267.0	5830.7	5984.9	6785.6	7480.3
25°	5479.2	5494.2	5338.3	5149.3	4965.3	4927.2	5195.7	5771.0	5935.1	6747.5	7448.8
27.5°	6062.8	6074.4	5895.4	5616.8	5247.1	5001.8	5170.9	5736.2	5907.0	6714.3	7395.7
30°	6772.4	6827.1	6586.7	6235.2	5696.4	5222.3	5220.6	5718.0	5875.5	6658.0	7291.3
32.5°	7498.5	7521.7	7355.9	6999.5	6301.5	5610.2	5359.9	5731.2	5867.2	6590.0	7158.6
35°	8234.6	8264.4	8156.7	7869.9	7128.8	6178.8	5631.8	5809.1	5918.6	6566.8	7065.8
37.5°	9187.9	9227.7	9078.4	8746.9	8135.1	6949.8	6084.4	6004.8	6076.1	6633.1	7037.6
40°	10694.9	10676.6	10240.6	9746.6	9235.9	7936.2	6730.9	6336.3	6377.8	6847.0	7123.8
42.5°	12448.9	12404.1	11653.1	10877.2	10446.2	9129.8	7586.4	6911.6	6903.3	7268.1	7427.2
45°	13848.1	13811.6	13135.2	12178.7	11833.8	10489.3	8692.2	7768.7	7707.4	7936.2	7987.6
47.5°	14605.8	14607.4	14217.8	13437.0	13428.7	12216.8	10113.0	9008.8	8902.7	9010.5	8955.8
50°	14340.5	14375.3	14333.9	14085.2	14884.3	14481.4	11968.1	10738.0	10524.1	10630.2	10419.7
52.5°	13057.3	13102.1	13347.4	13728.8	15496.0	17218.5	14693.6	12886.6	12637.9	12599.7	12366.0
55°	10782.7	10837.4	11338.1	12374.3	14987.1	19057.1	18994.1	15625.3	15229.1	14869.4	14769.9
57.5°	7432.2	7523.4	8329.1	9867.6	13340.8	19612.5	24115.3	19529.6	18723.9	17467.2	17490.4
60°	4189.4	4295.5	5245.5	6643.1	10018.5	19009.0	28011.2	25443.2	23742.2	20509.4	20681.8
62.5°	2664.2	2778.6	3499.7	4615.5	6011.4	15759.6	29607.7	33664.5	31504.3	24259.5	24428.6
65°	2156.9	2206.6	2546.5	3809.8	4365.1	9494.6	28395.9	40436.9	39631.2	29019.2	28230.1
67.5°	2105.5	2122.1	2297.8	3198.0	4186.1	5336.7	22649.7	41703.5	42597.1	33463.9	29813.3
70°	2080.6	2138.6	2589.6	3052.1	4008.7	4501.1	13611.0	38231.9	39642.8	34626.1	27706.2
72.5°	1009.6	1006.3	1303.1	2760.3	4516.0	4668.5	6992.9	30934.0	32349.9	29999.0	22767.4
75°	814.0	744.4	711.2	1011.3	4341.9	4821.1	4456.3	21285.3	22309.8	20113.2	13995.7
77.5°	772.6	689.7	631.6	633.3	1835.3	5112.8	3775.0	11780.8	12079.2	9085.1	3834.6
80°	639.9	563.7	522.2	588.5	888.6	4869.1	4081.7	5331.7	4892.3	2231.5	1276.6
82.5°	444.3	404.5	392.9	494.0	711.2	3469.9	4746.5	2864.8	2402.2	1117.4	787.5
85°	283.5	242.0	268.6	359.8	553.7	1601.5	4889.0	2233.1	1775.6	709.6	444.3
87.5°	131.0	106.1	132.6	198.9	361.4	552.1	4652.0	2508.3	1828.6	374.7	280.2
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: P299126
 CATALOG NUMBER: GLNA-AF-06-LED-E1-SL2-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7251.5	7251.5	7251.5	7251.5	7251.5	7251.5	7251.5	7251.5	7251.5	7251.5	7251.5
2.5°	7254.8	7223.3	7198.4	7152.0	7100.6	7050.9	7006.1	6949.8	6933.2	6918.3	6941.5
5°	7278.0	7246.5	7155.3	7012.8	6855.3	6707.7	6560.2	6434.2	6356.2	6313.1	6338.0
7.5°	7312.8	7268.1	7079.1	6817.1	6533.6	6275.0	6008.1	5794.2	5636.7	5562.1	5583.7
10°	7344.3	7258.1	6949.8	6556.8	6142.4	5757.8	5336.7	4988.5	4729.9	4593.9	4627.1
12.5°	7357.6	7220.0	6769.0	6231.9	5663.3	5099.6	4479.5	3959.0	3587.6	3451.7	3423.5
15°	7370.9	7176.9	6570.1	5862.2	5084.7	4287.2	3418.5	2795.2	2486.8	2418.8	2403.9
17.5°	7374.2	7102.3	6344.6	5461.0	4406.6	3320.7	2337.6	1941.4	1943.0	2052.4	2065.7
20°	7339.4	6991.2	6071.1	4962.0	3594.2	2296.1	1604.8	1536.8	1787.2	2060.7	2093.9
22.5°	7259.8	6843.7	5761.1	4380.1	2664.2	1512.0	1241.7	1316.3	1639.6	1974.5	2012.6
25°	7158.6	6664.6	5394.7	3705.3	1764.0	1080.9	1041.1	1132.3	1351.2	1575.0	1596.5
27.5°	7021.0	6452.4	4983.5	2932.8	1145.6	890.3	916.8	978.1	1067.7	1167.1	1177.1
30°	6843.7	6198.7	4544.2	2138.6	865.4	800.7	838.9	872.0	910.2	966.5	971.5
32.5°	6639.7	5955.0	4093.3	1477.2	767.6	754.3	784.2	800.7	830.6	865.4	868.7
35°	6469.0	5722.9	3625.7	1044.5	726.1	719.5	739.4	746.0	774.2	812.4	815.7
37.5°	6371.2	5533.9	3143.3	842.2	698.0	688.0	699.6	699.6	739.4	795.8	804.1
40°	6377.8	5429.5	2660.9	761.0	674.7	661.5	663.1	663.1	714.5	775.9	780.9
42.5°	6558.5	5456.0	2233.1	729.5	656.5	641.6	633.3	638.3	681.4	721.2	724.5
45°	6982.9	5643.4	1831.9	709.6	638.3	633.3	615.1	613.4	630.0	648.2	648.2
47.5°	7679.2	6013.1	1560.0	696.3	623.4	621.7	600.1	578.6	576.9	583.6	583.6
50°	8811.5	6649.7	1377.7	681.4	613.4	600.1	575.3	542.1	530.5	535.5	535.5
52.5°	10509.2	7785.3	1308.1	661.5	591.9	570.3	542.1	509.0	499.0	500.7	500.7
55°	12735.7	9529.4	1298.1	638.3	568.6	533.8	510.6	485.8	474.1	477.5	477.5
57.5°	15456.2	11941.6	1475.5	601.8	537.1	497.4	484.1	467.5	459.2	464.2	462.5
60°	18763.7	15098.1	2188.4	563.7	505.6	464.2	464.2	450.9	444.3	449.3	447.6
62.5°	22573.4	18723.9	3077.0	535.5	472.5	437.7	444.3	437.7	431.0	434.4	432.7
65°	25952.2	21086.3	2881.4	513.9	439.3	412.8	424.4	421.1	416.1	419.4	417.8
67.5°	26050.0	20211.0	1618.1	490.7	407.8	387.9	404.5	402.9	399.5	402.9	401.2
70°	23248.2	17066.0	911.8	447.6	374.7	358.1	381.3	379.7	376.3	383.0	381.3
72.5°	18626.1	12384.2	666.5	394.6	341.5	326.6	353.1	351.5	351.5	361.4	356.4
75°	10718.1	6372.8	532.2	338.2	306.7	295.1	318.3	320.0	323.3	336.5	326.6
77.5°	3055.4	1986.1	434.4	286.8	263.6	258.6	281.8	285.2	286.8	301.7	288.5
80°	1135.6	915.1	358.1	240.4	215.5	217.2	238.7	243.7	245.4	260.3	243.7
82.5°	724.5	603.5	290.1	185.7	169.1	167.4	194.0	200.6	200.6	202.3	192.3
85°	422.8	361.4	218.8	134.3	119.4	114.4	144.2	155.8	150.9	147.5	140.9
87.5°	283.5	248.7	134.3	74.6	64.7	61.3	84.6	92.8	89.5	84.6	79.6
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)