

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: P301110

Luminaire Tested: **GLNA-AF-06-LED-E1-T3R-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301110
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194839)
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-T3R-7027
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III
Roadway OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31515.3 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

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

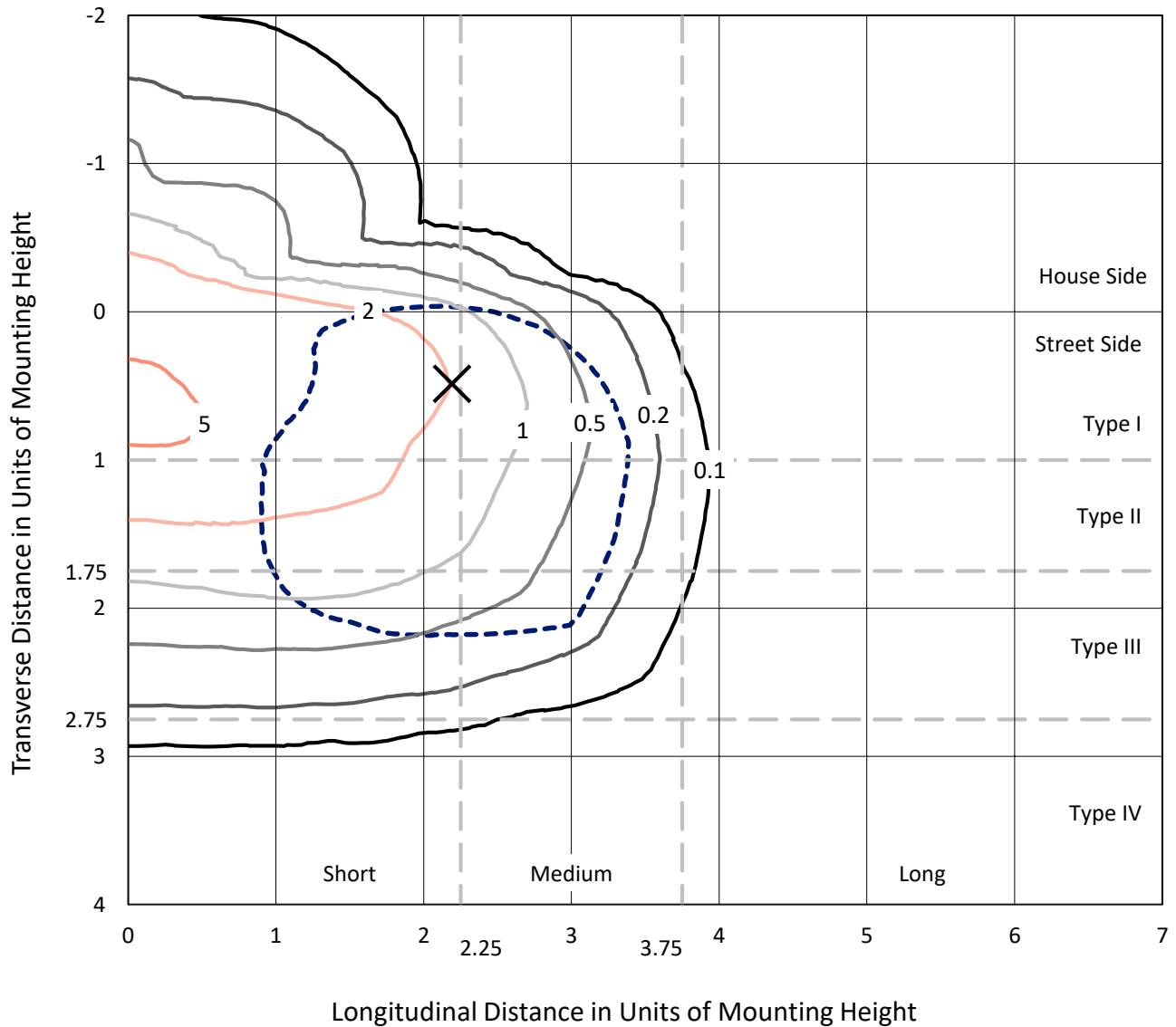


REPORT NUMBER: P301110

CATALOG NUMBER: GLNA-AF-06-LED-E1-T3R-7027

Iso-Footcandle Lines of Horizontal Illumination

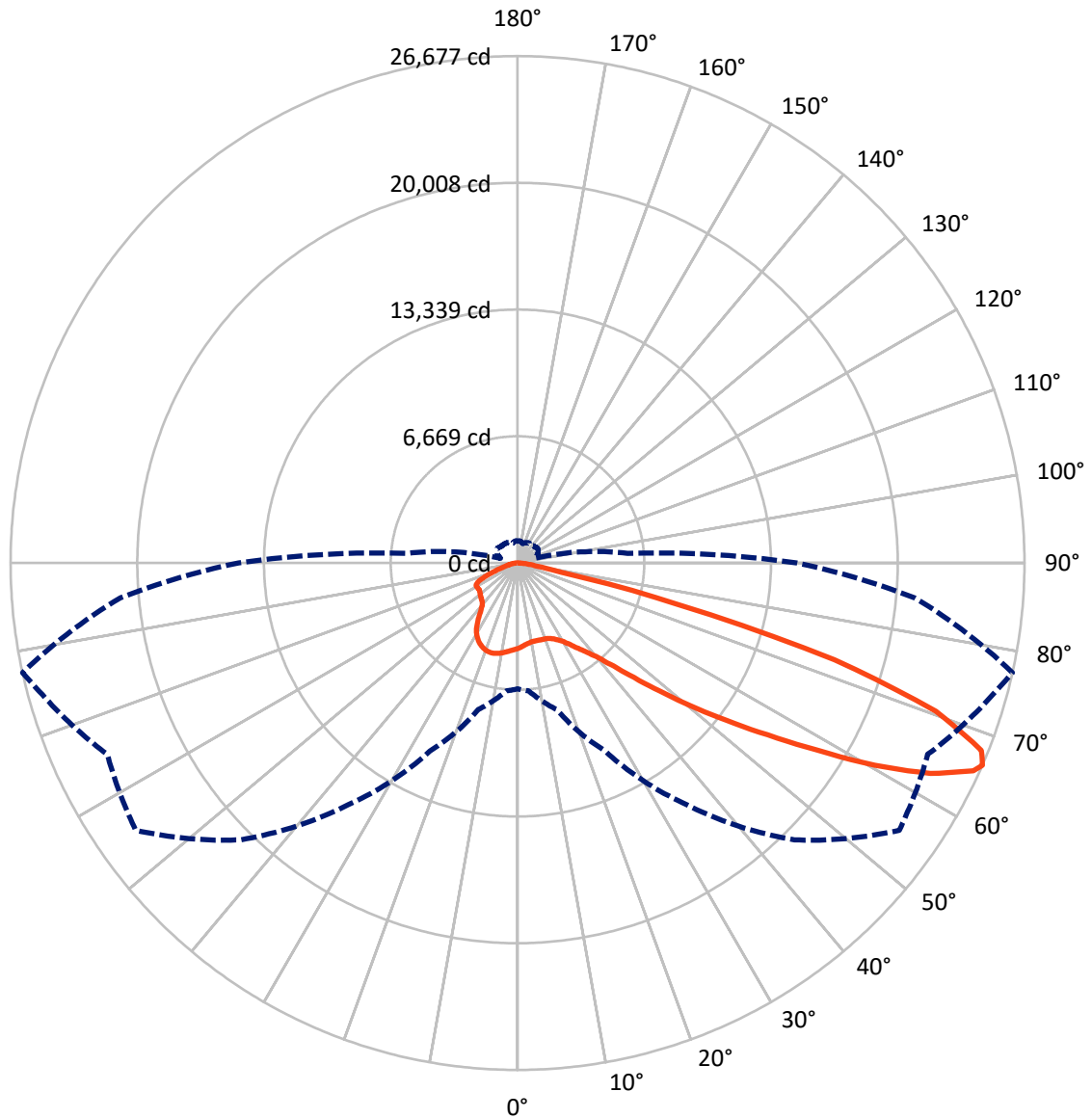
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P301110
CATALOG NUMBER: GLNA-AF-06-LED-E1-T3R-7027

Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P301110

CATALOG NUMBER: GLNA-AF-06-LED-E1-T3R-7027

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5384.2	0.0	5384.2
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	26131.1	0.0	26131.1
	% Fixture	82.9	0.0	82.9
Total	Lumens	31515.3	0.0	31515.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.2	1.3
10°-20°	1132.0	3.6
20°-30°	1931.9	6.1
30°-40°	3092.6	9.8
40°-50°	4777.8	15.2
50°-60°	6776.5	21.5
60°-70°	9065.1	28.8
70°-80°	3936.8	12.5
80°-90°	401.4	1.3
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°	31515.3	100.0
0°-180°	31515.3	100.0



REPORT NUMBER: P301110

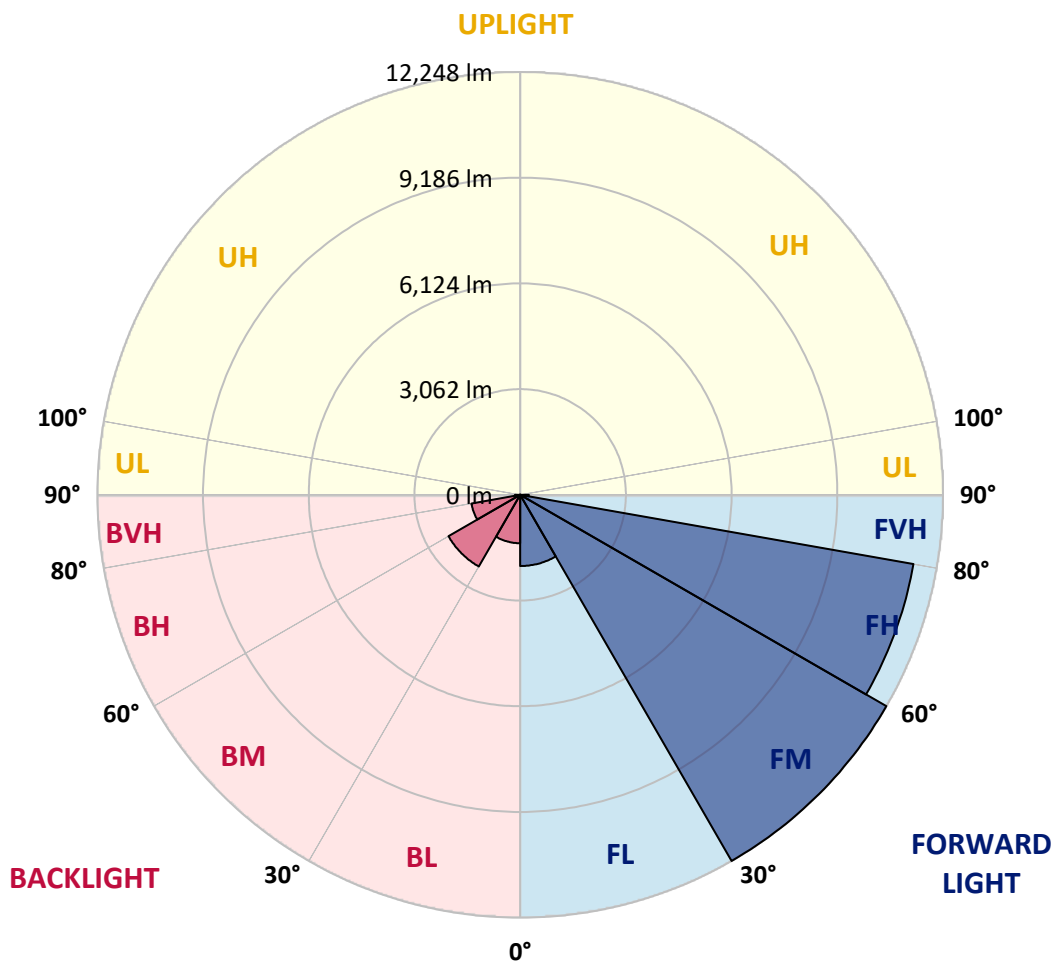
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2062.8	6.5			
FM	(30°-60°)	12248.5	38.9			
FH	(60°-80°)	11568.0	36.7			G4/12000
FVH	(80°-90°)	251.8	0.8			G3/500
BL	(0°-30°)	1402.3	4.4	B3/2500		
BM	(30°-60°)	2398.4	7.6	B2/2500		
BH	(60°-80°)	1433.9	4.5	B3/2500		G3/2500
BVH	(80°-90°)	149.7	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





REPORT NUMBER: P301110

CATALOG NUMBER: GLNA-AF-06-LED-E1-T3R-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	4491.0	4491.0	4491.0	4491.0	4491.0	4491.0	4491.0	4491.0	4491.0	4491.0	4491.0
2.5°	3973.0	3999.6	4022.1	4042.9	4084.4	4152.9	4231.8	4295.8	4388.2	4406.3	4455.4
5°	3608.2	3608.2	3625.8	3657.4	3713.7	3816.5	3923.8	4066.8	4267.9	4315.2	4446.4
7.5°	3431.1	3432.4	3442.8	3469.4	3518.5	3612.3	3730.0	3898.6	4170.9	4249.8	4473.0
10°	3496.4	3481.6	3459.0	3445.9	3453.1	3508.2	3620.0	3807.5	4111.4	4212.4	4533.0
12.5°	3862.5	3834.6	3757.0	3654.2	3555.9	3515.8	3581.2	3764.2	4086.2	4203.8	4611.9
15°	4461.3	4449.6	4304.8	4092.0	3854.0	3654.2	3609.6	3748.0	4088.9	4214.2	4705.6
17.5°	5212.0	5195.3	5005.0	4695.3	4306.6	3918.0	3709.2	3761.5	4099.2	4231.8	4796.3
20°	5969.9	5918.9	5713.8	5344.5	4845.4	4276.4	3874.7	3795.8	4112.8	4251.2	4891.8
22.5°	6535.7	6493.8	6309.4	5950.5	5375.6	4692.1	4096.5	3855.3	4156.0	4308.0	5009.1
25°	7033.0	7035.7	6852.6	6505.9	5911.7	5133.1	4382.4	4014.5	4266.1	4423.9	5170.0
27.5°	7648.0	7612.3	7441.0	7097.0	6441.9	5578.1	4727.7	4233.6	4430.2	4589.3	5381.5
30°	8383.3	8358.1	8160.1	7770.1	7029.8	6056.0	5122.2	4487.9	4641.6	4806.6	5658.3
32.5°	9248.5	9236.8	9031.2	8529.4	7708.8	6619.1	5585.7	4824.7	4957.2	5128.5	6056.0
35°	10264.3	10265.7	10023.1	9419.8	8451.8	7274.2	6111.0	5257.9	5341.4	5519.9	6529.8
37.5°	10889.7	10965.4	10874.8	10259.8	9293.2	8006.8	6793.1	5832.8	5779.1	5959.5	7037.5
40°	11023.6	11116.0	11403.2	11090.7	10234.6	8813.9	7397.7	6385.1	6318.4	6538.4	7691.2
42.5°	10836.0	10964.1	11571.8	11791.8	11233.7	9808.5	8210.6	7205.7	7120.9	7417.1	8504.1
45°	10724.2	10819.8	11522.7	12157.0	12100.2	10932.9	9245.8	8235.9	8204.8	8593.4	9442.4
47.5°	10530.8	10617.3	11293.2	12241.8	12609.7	11963.2	10489.3	9496.0	9556.9	10066.4	10501.0
50°	10634.9	10670.5	11037.1	12025.8	12757.1	12718.4	11878.4	10955.0	11163.8	11799.5	11699.9
52.5°	10620.0	10712.5	11007.3	11671.5	12776.5	13184.5	13246.8	12582.6	13022.2	13751.7	13029.4
55°	8586.2	8755.7	10657.5	11582.2	12844.6	13641.3	14465.0	14298.2	15116.9	15967.3	14530.4
57.5°	8198.9	8306.2	9360.3	11769.7	13208.0	14514.1	15819.8	16186.4	17556.1	18543.5	16359.1
60°	8122.7	8255.3	9346.8	11999.2	13945.1	15936.2	17828.9	18472.2	20524.1	21605.3	18479.5
62.5°	7886.0	8028.9	9258.9	11969.0	14992.0	17903.3	20400.6	20902.4	23338.4	24389.8	20253.2
65°	7135.8	7269.7	8542.9	11488.4	15698.1	20002.9	23443.9	23130.1	25560.2	26350.6	21137.3
66°	6621.8	6753.0	7978.4	10922.6	15534.0	20598.5	24522.4	23819.5	26057.5	26677.0	20964.6
67.5°	5682.2	5785.0	6882.4	9655.2	14662.9	20765.3	25429.0	24337.5	26109.4	26328.5	19977.7
70°	3590.2	3620.0	4473.0	6665.1	11099.8	18008.8	24048.5	23051.2	23956.5	23363.6	16747.7
72.5°	1557.7	1547.4	2147.5	3390.5	6284.1	12084.0	19453.3	19020.0	18792.4	17440.2	11723.8
75°	866.6	878.7	1115.4	1574.0	2553.7	5935.6	12725.6	12177.8	10281.9	8773.8	5316.1
77.5°	695.2	711.9	924.7	1116.8	1146.5	2069.9	5955.0	4845.4	2917.1	2340.9	1477.0
80°	549.6	579.4	807.0	869.7	772.8	853.0	1923.8	1538.3	1154.2	1058.6	765.6
82.5°	434.6	455.8	692.5	658.3	540.6	574.8	921.6	898.1	750.7	683.5	442.3
85°	312.9	351.2	569.0	495.9	354.4	387.3	611.8	586.6	430.1	351.2	195.2
87.5°	128.0	166.8	402.2	329.1	197.9	180.3	305.2	287.2	203.8	148.8	96.9
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: P301110

CATALOG NUMBER: GLNA-AF-06-LED-E1-T3R-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4491.0	4491.0	4491.0	4491.0	4491.0	4491.0	4491.0	4491.0	4491.0	4491.0	4491.0
2.5°	4486.5	4522.1	4568.6	4597.0	4611.9	4622.2	4638.5	4637.1	4641.6	4643.0	4648.8
5°	4516.3	4575.8	4643.0	4661.0	4661.0	4644.3	4628.1	4601.0	4590.7	4588.0	4590.7
7.5°	4593.8	4659.2	4717.4	4696.6	4652.0	4586.2	4501.4	4427.0	4386.9	4373.4	4370.7
10°	4692.1	4771.0	4794.9	4716.0	4584.8	4427.0	4258.8	4136.7	4066.8	4047.4	4041.5
12.5°	4811.1	4885.5	4853.1	4686.3	4443.2	4189.0	3956.3	3761.5	3615.5	3569.5	3566.3
15°	4942.3	5000.5	4885.5	4593.8	4231.8	3856.7	3442.8	3106.4	2924.7	2866.6	2862.1
17.5°	5064.5	5094.3	4866.1	4432.9	3920.7	3313.4	2763.8	2504.5	2442.3	2457.2	2459.9
20°	5168.7	5168.7	4800.8	4202.0	3431.1	2597.0	2249.8	2245.7	2290.4	2335.0	2344.0
22.5°	5283.2	5214.7	4686.3	3876.1	2736.7	2124.9	2074.4	2115.9	2166.4	2215.5	2223.2
25°	5424.8	5252.1	4526.6	3381.9	2151.5	1929.7	1949.1	1983.3	2008.6	2040.1	2044.7
27.5°	5582.6	5299.4	4317.0	2701.1	1867.5	1808.0	1822.8	1834.6	1831.4	1843.6	1846.3
30°	5771.5	5354.9	4029.3	2111.4	1749.8	1703.4	1676.8	1666.4	1666.4	1685.8	1693.0
32.5°	6024.9	5436.5	3616.8	1809.3	1693.0	1629.0	1542.8	1504.1	1519.0	1584.3	1599.2
35°	6303.5	5524.4	3058.6	1706.5	1681.3	1594.7	1460.8	1389.1	1390.9	1451.8	1471.2
37.5°	6606.9	5636.2	2446.4	1687.1	1707.9	1596.5	1417.5	1319.2	1279.1	1279.1	1286.8
40°	6995.6	5750.7	1980.6	1700.6	1764.7	1614.1	1395.4	1264.2	1151.0	1154.2	1160.1
42.5°	7501.9	5849.0	1730.4	1728.6	1833.2	1638.0	1393.6	1191.2	1092.9	1160.1	1220.9
45°	8065.0	5898.2	1619.9	1754.3	1888.2	1652.9	1370.2	1179.5	1100.6	1299.8	1416.2
47.5°	8712.4	5869.8	1559.1	1762.9	1901.7	1652.9	1343.1	1207.9	1152.4	1505.4	1641.1
50°	9423.0	5788.2	1499.6	1745.3	1897.2	1649.7	1368.4	1235.8	1171.8	1541.0	1634.8
52.5°	10258.5	5719.6	1436.9	1706.5	1865.7	1633.5	1398.1	1224.1	1110.9	1401.3	1466.7
55°	11211.1	5739.0	1367.0	1651.5	1816.5	1602.4	1387.8	1176.3	1046.9	1234.5	1274.6
57.5°	12429.4	5969.9	1283.6	1581.6	1749.8	1550.1	1350.8	1154.2	1027.5	1119.9	1143.8
60°	13788.7	6371.6	1179.5	1511.3	1666.4	1466.7	1322.4	1164.6	1036.5	1110.9	1122.6
62.5°	14786.5	6605.6	1090.2	1408.5	1553.2	1374.2	1286.8	1177.7	1060.4	1142.0	1139.3
65°	15057.4	6221.4	978.4	1258.4	1399.9	1277.7	1241.7	1192.5	1070.8	1167.3	1154.2
66°	14677.8	5807.5	929.2	1188.5	1322.4	1230.0	1219.6	1191.2	1066.3	1170.4	1147.9
67.5°	13756.2	4958.6	844.5	1085.7	1198.8	1158.7	1184.0	1177.7	1054.1	1167.3	1136.2
70°	11218.8	3383.3	722.3	904.0	997.8	1019.8	1115.4	1130.3	1015.3	1115.4	1046.9
72.5°	7838.7	2060.9	638.9	701.5	807.0	869.7	1021.7	1064.5	963.5	973.9	908.5
75°	3788.1	1094.7	579.4	543.7	626.7	726.8	908.5	975.2	881.4	814.7	790.8
77.5°	1180.8	668.6	491.4	437.8	491.4	586.6	759.3	854.8	784.9	682.2	673.1
80°	634.4	491.4	378.3	351.2	388.6	460.3	596.9	713.3	674.5	611.8	546.4
82.5°	418.4	318.8	280.0	272.3	296.2	351.2	443.6	591.1	591.1	524.4	381.4
85°	216.0	195.2	192.1	192.1	206.9	234.0	302.1	455.8	485.6	276.8	229.5
87.5°	107.3	111.8	104.1	108.7	116.3	114.5	144.3	229.5	274.1	168.2	139.8
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)