

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: P299192

Luminaire Tested: **GLNA-AF-07-LED-E1-SL2-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299192
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-07-LED-E1-SL2-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Narrow OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32119.8 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

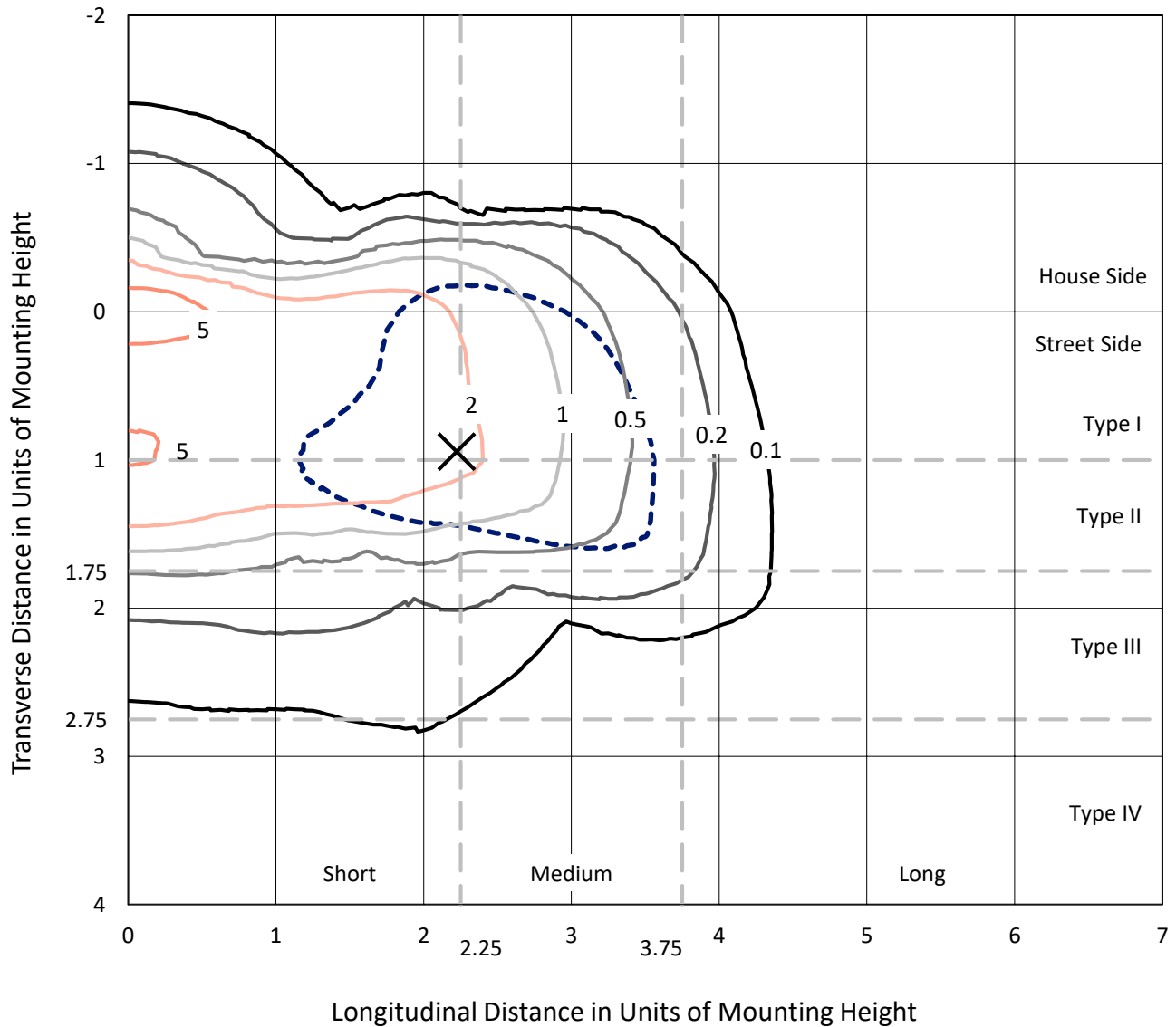
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

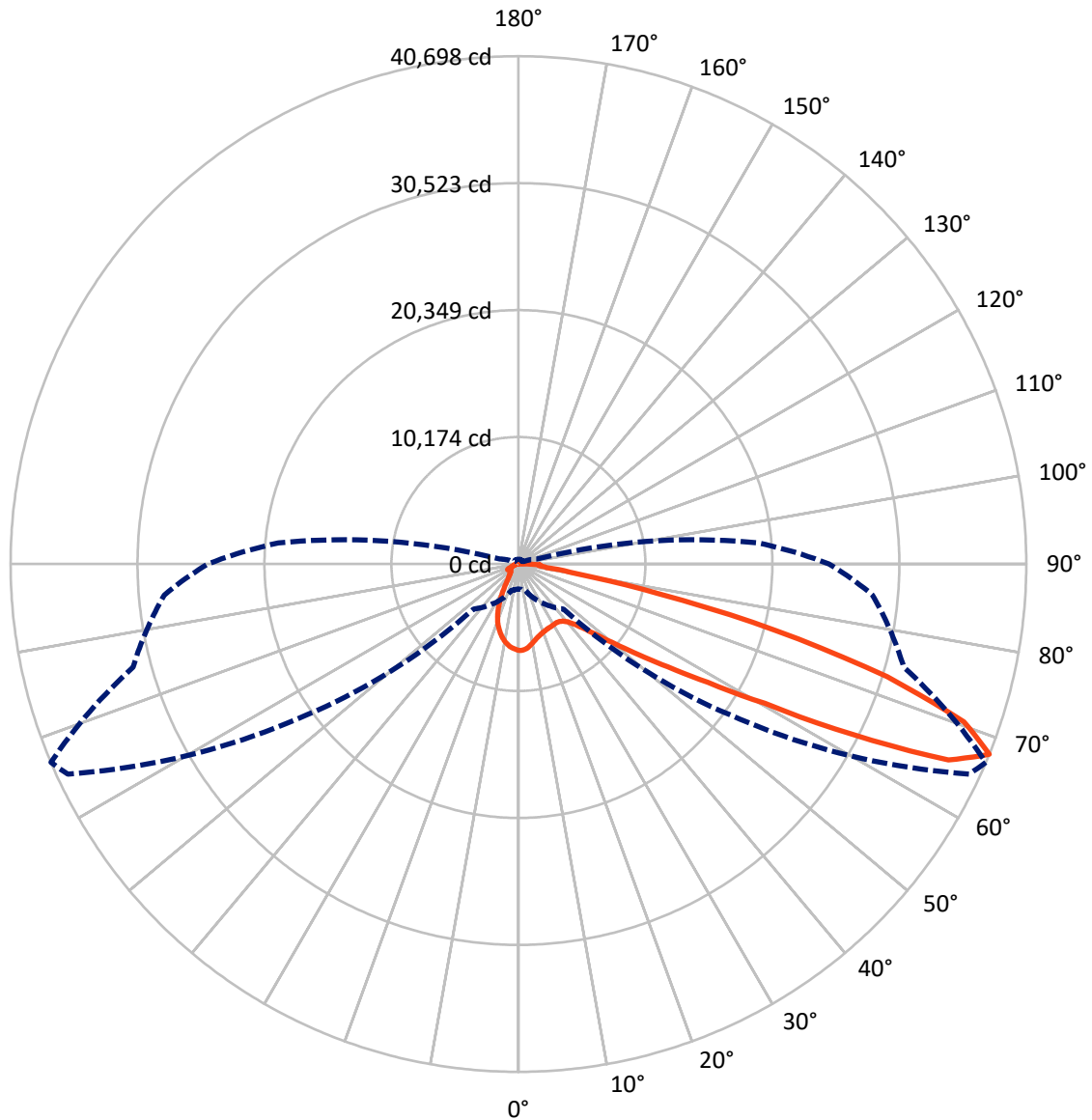
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 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	5321.9	0.0	5321.9
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	26797.9	0.0	26797.9
	% Fixture	83.4	0.0	83.4
Total	Lumens	32119.8	0.0	32119.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	591.1	1.8
10°-20°	1367.7	4.3
20°-30°	1853.9	5.8
30°-40°	2635.5	8.2
40°-50°	4409.3	13.7
50°-60°	6975.4	21.7
60°-70°	8886.0	27.7
70°-80°	4654.5	14.5
80°-90°	746.5	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°	32119.8	100.0
0°-180°	32119.8	100.0

Coefficient of Utilization



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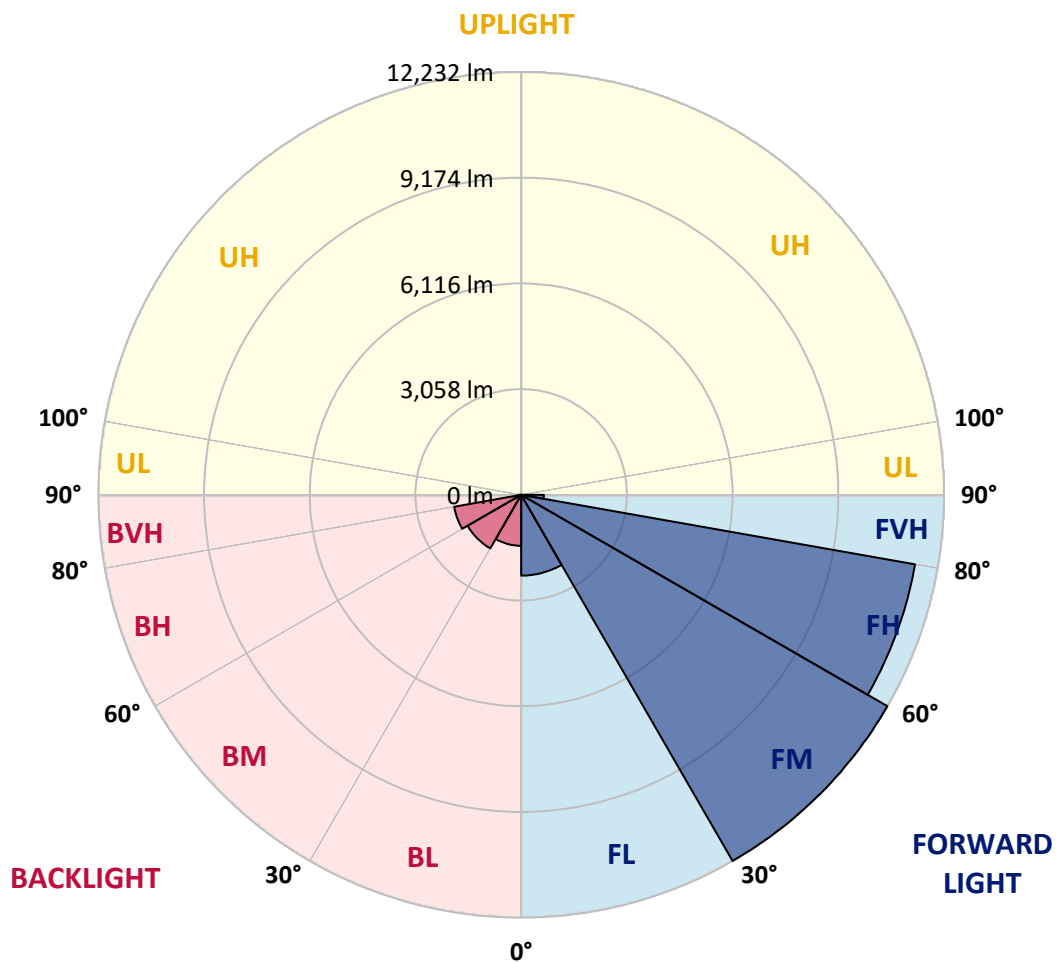
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2337.5	7.3			
FM (30°-60°)	12231.9	38.1			
FH (60°-80°)	11572.1	36.0			G4/12000
FVH (80°-90°)	656.4	2.0			G4/750
BL (0°-30°)	1475.1	4.6	B3/2500		
BM (30°-60°)	1788.3	5.6	B2/2500		
BH (60°-80°)	1968.4	6.1	B3/2500		G3/2500
BVH (80°-90°)	90.1	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6928.2	6928.2	6928.2	6928.2	6928.2	6928.2	6928.2	6928.2	6928.2	6928.2	6928.2
2.5°	6643.0	6654.1	6689.0	6711.2	6810.9	6853.7	6883.8	6913.9	6918.7	6932.9	6918.7
5°	5946.1	5969.9	6034.8	6107.7	6300.9	6453.0	6613.0	6779.3	6809.4	6917.1	6947.2
7.5°	5406.0	5399.7	5453.5	5540.6	5738.6	5949.3	6229.6	6560.7	6625.6	6868.0	6985.2
10°	5011.6	5006.8	5063.9	5154.1	5342.6	5542.2	5859.0	6312.0	6403.9	6790.4	7021.6
12.5°	4720.1	4721.7	4778.7	4878.5	5070.2	5271.4	5592.9	6071.2	6188.5	6700.1	7059.6
15°	4526.9	4539.6	4585.5	4691.6	4878.5	5079.7	5394.9	5890.7	6022.1	6628.8	7102.4
17.5°	4462.0	4482.6	4498.4	4576.0	4736.0	4937.1	5246.0	5757.6	5897.0	6579.7	7140.4
20°	4522.1	4545.9	4515.8	4542.7	4644.1	4821.5	5128.8	5653.1	5795.6	6524.2	7145.2
22.5°	4780.3	4802.5	4713.8	4636.2	4629.9	4737.6	5032.2	5570.7	5718.0	6483.1	7146.7
25°	5234.9	5249.2	5100.3	4919.7	4743.9	4707.5	4964.1	5513.7	5670.5	6446.6	7116.6
27.5°	5792.5	5803.6	5632.5	5366.4	5013.2	4778.7	4940.3	5480.4	5643.6	6415.0	7066.0
30°	6470.4	6522.7	6293.0	5957.2	5442.4	4989.4	4987.8	5463.0	5613.5	6361.1	6966.2
32.5°	7164.2	7186.3	7027.9	6687.4	6020.6	5360.1	5120.9	5475.7	5605.6	6296.2	6839.5
35°	7867.4	7895.9	7793.0	7519.0	6810.9	5903.3	5380.6	5550.1	5654.7	6274.0	6750.8
37.5°	8778.2	8816.2	8673.7	8356.9	7772.4	6639.9	5813.1	5737.0	5805.1	6337.3	6723.8
40°	10218.0	10200.6	9784.0	9312.0	8824.1	7582.3	6430.8	6053.8	6093.4	6541.7	6806.2
42.5°	11893.8	11851.0	11133.5	10392.2	9980.4	8722.8	7248.1	6603.4	6595.5	6944.0	7096.1
45°	13230.7	13195.8	12549.6	11635.6	11306.2	10021.6	8304.6	7422.3	7363.7	7582.3	7631.4
47.5°	13954.5	13956.1	13583.9	12837.8	12829.9	11672.1	9662.0	8607.1	8505.8	8608.7	8556.4
50°	13701.1	13734.3	13694.7	13457.2	14220.6	13835.7	11434.5	10259.2	10054.9	10156.2	9955.1
52.5°	12475.1	12517.9	12752.3	13116.6	14805.1	16450.8	14038.5	12312.0	12074.4	12037.9	11814.6
55°	10301.9	10354.2	10832.6	11822.5	14318.8	18207.4	18147.2	14928.6	14550.1	14206.4	14111.3
57.5°	7100.8	7187.9	7957.7	9427.6	12746.0	18738.0	23040.0	18658.8	17889.0	16688.4	16710.6
60°	4002.6	4104.0	5011.6	6346.8	9571.8	18161.5	26762.3	24308.7	22683.6	19594.9	19759.7
62.5°	2545.4	2654.7	3343.7	4409.7	5743.4	15056.9	28287.6	32163.5	30099.6	23177.8	23339.4
65°	2060.7	2108.2	2432.9	3639.9	4170.5	9071.2	27129.7	38633.9	37864.1	27725.3	26971.3
67.5°	2011.6	2027.4	2195.3	3055.4	3999.4	5098.7	21639.8	39844.0	40697.8	31971.8	28484.0
70°	1987.8	2043.3	2474.1	2916.0	3830.0	4300.4	13004.1	36527.2	37875.2	33082.2	26470.8
72.5°	964.6	961.5	1245.0	2637.3	4314.7	4460.4	6681.1	29554.7	30907.4	28661.4	21752.3
75°	777.7	711.2	679.5	966.2	4148.3	4606.1	4257.6	20336.2	21315.1	19216.4	13371.6
77.5°	738.1	658.9	603.5	605.1	1753.4	4884.9	3606.6	11255.5	11540.6	8680.0	3663.7
80°	611.4	538.5	498.9	562.3	849.0	4652.0	3899.7	5094.0	4674.2	2132.0	1219.6
82.5°	424.5	386.5	375.4	472.0	679.5	3315.2	4534.8	2737.0	2295.1	1067.6	752.4
85°	270.9	231.3	256.6	343.7	529.0	1530.1	4671.0	2133.6	1696.4	677.9	424.5
87.5°	125.1	101.4	126.7	190.1	345.3	527.5	4444.5	2396.5	1747.1	358.0	267.7
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°	6928.2	6928.2	6928.2	6928.2	6928.2	6928.2	6928.2	6928.2	6928.2	6928.2	6928.2
2.5°	6931.3	6901.2	6877.5	6833.1	6784.0	6736.5	6693.7	6639.9	6624.0	6609.8	6632.0
5°	6953.5	6923.4	6836.3	6700.1	6549.6	6408.6	6267.7	6147.3	6072.8	6031.6	6055.4
7.5°	6986.8	6944.0	6763.4	6513.2	6242.3	5995.2	5740.2	5535.9	5385.4	5314.1	5334.7
10°	7016.9	6934.5	6639.9	6264.5	5868.5	5501.0	5098.7	4766.1	4519.0	4389.1	4420.8
12.5°	7029.5	6898.1	6467.2	5954.0	5410.7	4872.2	4279.8	3782.4	3427.6	3297.8	3270.8
15°	7042.2	6856.9	6277.2	5600.8	4857.9	4096.1	3266.1	2670.5	2375.9	2311.0	2296.7
17.5°	7045.4	6785.6	6061.7	5217.5	4210.1	3172.6	2233.4	1854.8	1856.4	1960.9	1973.6
20°	7012.1	6679.5	5800.4	4740.7	3434.0	2193.8	1533.3	1468.3	1707.5	1968.8	2000.5
22.5°	6936.1	6538.5	5504.2	4184.8	2545.4	1444.6	1186.4	1257.6	1566.5	1886.5	1922.9
25°	6839.5	6367.4	5154.1	3540.1	1685.3	1032.7	994.7	1081.8	1290.9	1504.7	1525.3
27.5°	6708.0	6164.7	4761.3	2802.0	1094.5	850.6	875.9	934.5	1020.1	1115.1	1124.6
30°	6538.5	5922.4	4341.6	2043.3	826.8	765.0	801.5	833.2	869.6	923.4	928.2
32.5°	6343.7	5689.5	3910.7	1411.3	733.4	720.7	749.2	765.0	793.6	826.8	830.0
35°	6180.5	5467.8	3464.1	997.9	693.8	687.4	706.4	712.8	739.7	776.1	779.3
37.5°	6087.1	5287.2	3003.2	804.6	666.8	657.3	668.4	668.4	706.4	760.3	768.2
40°	6093.4	5187.4	2542.2	727.0	644.7	632.0	633.6	633.6	682.7	741.3	746.0
42.5°	6266.1	5212.7	2133.6	696.9	627.2	613.0	605.1	609.8	651.0	689.0	692.2
45°	6671.6	5391.7	1750.3	677.9	609.8	605.1	587.6	586.1	601.9	619.3	619.3
47.5°	7336.8	5745.0	1490.5	665.3	595.6	594.0	573.4	552.8	551.2	557.5	557.5
50°	8418.6	6353.2	1316.3	651.0	586.1	573.4	549.6	517.9	506.9	511.6	511.6
52.5°	10040.6	7438.2	1249.7	632.0	565.5	544.9	517.9	486.3	476.8	478.3	478.3
55°	12167.8	9104.5	1240.2	609.8	543.3	510.0	487.9	464.1	453.0	456.2	456.2
57.5°	14767.1	11409.1	1409.7	575.0	513.2	475.2	462.5	446.7	438.8	443.5	441.9
60°	17927.0	14424.9	2090.8	538.5	483.1	443.5	443.5	430.8	424.5	429.2	427.7
62.5°	21566.9	17889.0	2939.8	511.6	451.4	418.2	424.5	418.2	411.8	415.0	413.4
65°	24795.0	20146.1	2752.9	491.0	419.7	394.4	405.5	402.3	397.6	400.7	399.2
67.5°	24888.5	19309.8	1545.9	468.8	389.6	370.6	386.5	384.9	381.7	384.9	383.3
70°	22211.6	16305.1	871.2	427.7	358.0	342.1	364.3	362.7	359.6	365.9	364.3
72.5°	17795.6	11832.0	636.7	377.0	326.3	312.0	337.4	335.8	335.8	345.3	340.5
75°	10240.2	6088.7	508.4	323.1	293.0	281.9	304.1	305.7	308.9	321.5	312.0
77.5°	2919.2	1897.6	415.0	274.0	251.8	247.1	269.3	272.4	274.0	288.3	275.6
80°	1085.0	874.3	342.1	229.7	205.9	207.5	228.1	232.8	234.4	248.7	232.8
82.5°	692.2	576.6	277.2	177.4	161.6	160.0	185.3	191.7	191.7	193.2	183.7
85°	403.9	345.3	209.1	128.3	114.0	109.3	137.8	148.9	144.1	141.0	134.6
87.5°	270.9	237.6	128.3	71.3	61.8	58.6	80.8	88.7	85.5	80.8	76.0
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)