

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: P299252

Luminaire Tested: **GLNA-AF-07-LED-E1-SL2-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299252
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-SL2-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Narrow OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26191.2 lumens
Efficiency: N/A
Efficacy: 115.9 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): 226
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

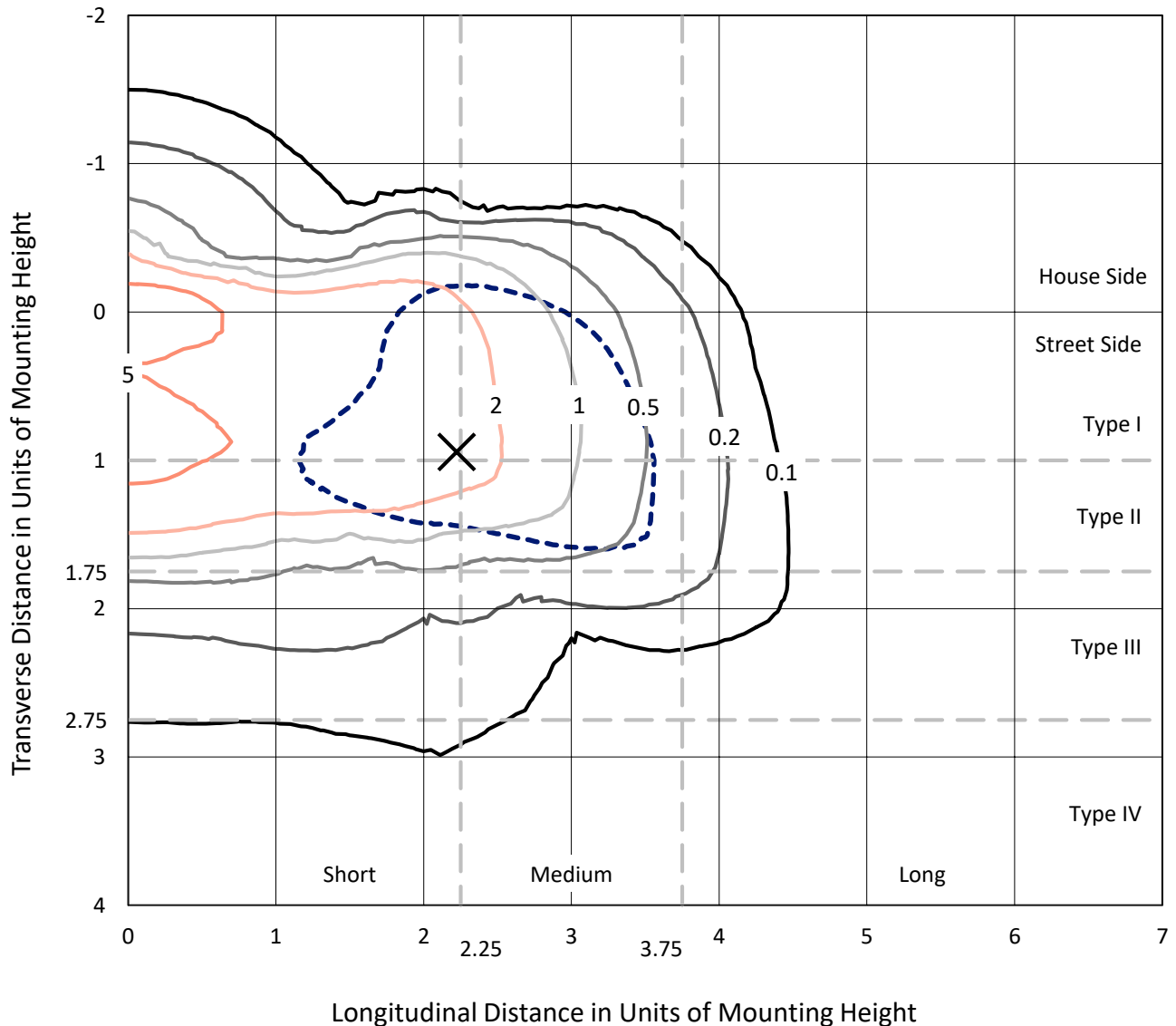


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Iso-Footcandle Lines of Horizontal Illumination

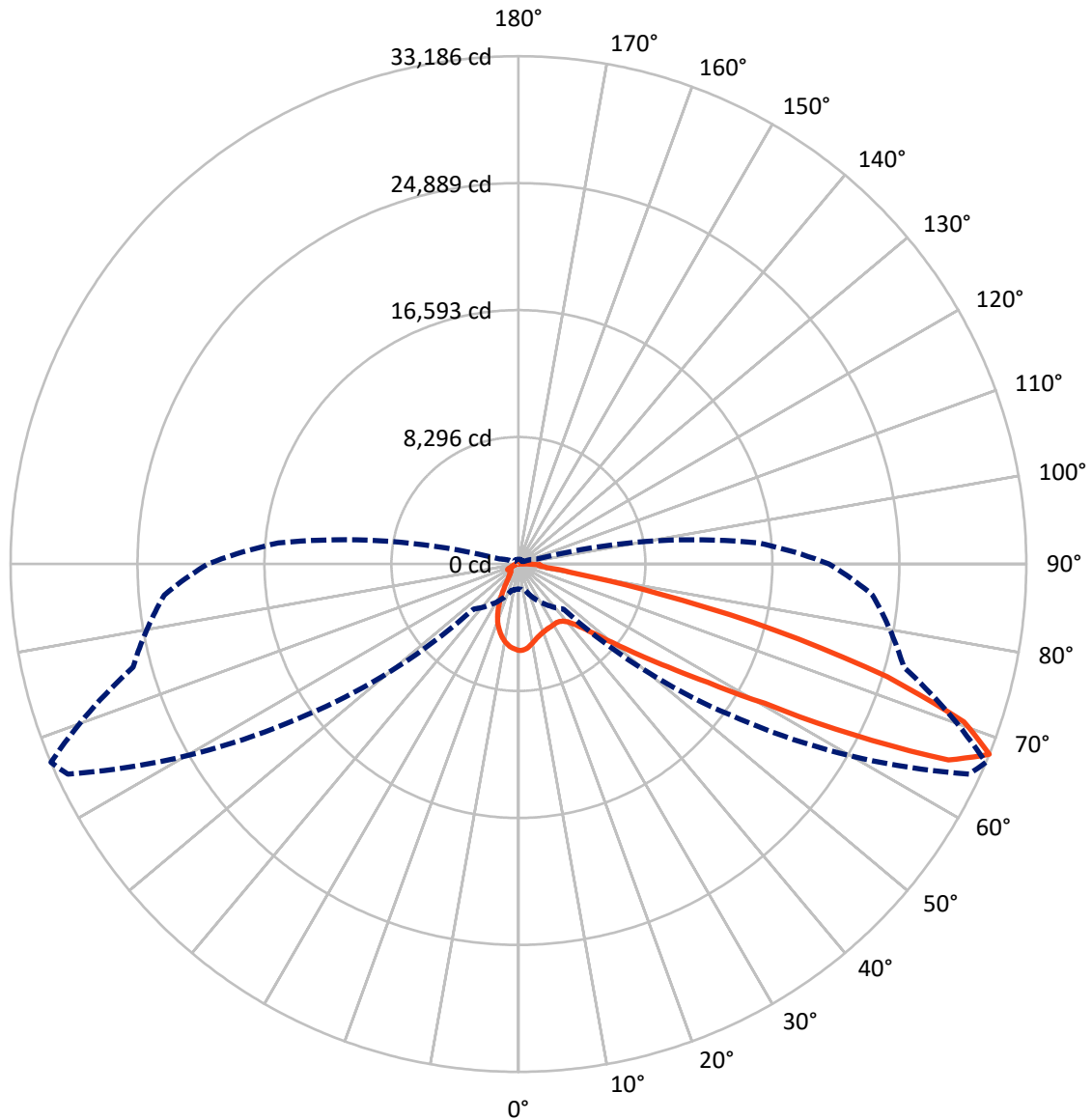
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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	4339.6	0.0	4339.6
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	21851.6	0.0	21851.6
	% Fixture	83.4	0.0	83.4
Total	Lumens	26191.2	0.0	26191.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.0	1.8
10°-20°	1115.2	4.3
20°-30°	1511.7	5.8
30°-40°	2149.0	8.2
40°-50°	3595.4	13.7
50°-60°	5687.9	21.7
60°-70°	7245.8	27.7
70°-80°	3795.4	14.5
80°-90°	608.7	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°	26191.2	100.0
0°-180°	26191.2	100.0

Coefficient of Utilization



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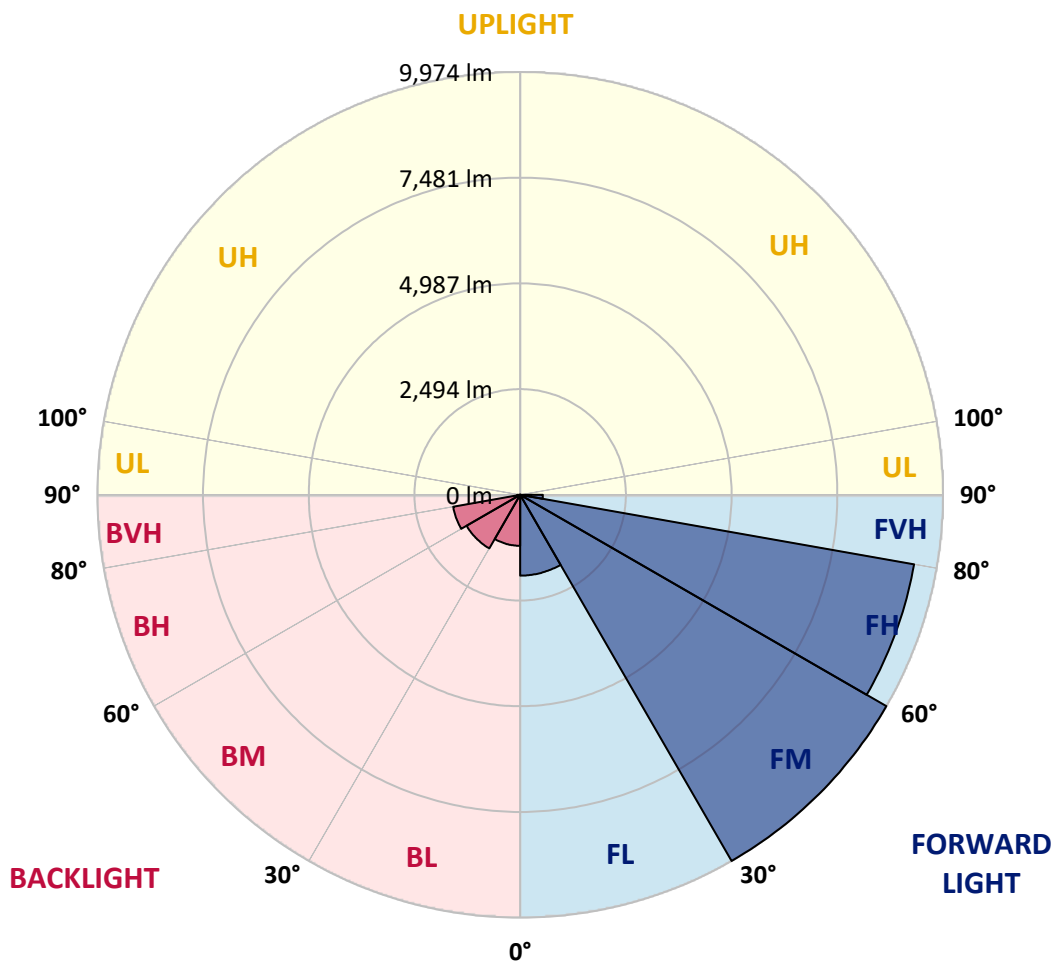
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1906.1	7.3			
FM (30°-60°)	9974.1	38.1			
FH (60°-80°)	9436.1	36.0			G4/12000
FVH (80°-90°)	535.2	2.0			G4/750
BL (0°-30°)	1202.8	4.6	B3/2500		
BM (30°-60°)	1458.2	5.6	B2/2500		
BH (60°-80°)	1605.1	6.1	B3/2500		G3/2500
BVH (80°-90°)	73.5	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°	5649.4	5649.4	5649.4	5649.4	5649.4	5649.4	5649.4	5649.4	5649.4	5649.4	5649.4
2.5°	5416.9	5425.9	5454.3	5472.4	5553.8	5588.7	5613.2	5637.7	5641.6	5653.2	5641.6
5°	4848.6	4868.0	4920.9	4980.3	5137.9	5261.9	5392.3	5528.0	5552.5	5640.3	5664.9
7.5°	4408.2	4403.0	4446.9	4517.9	4679.4	4851.2	5079.8	5349.7	5402.7	5600.3	5695.9
10°	4086.6	4082.7	4129.2	4202.8	4356.5	4519.2	4777.6	5146.9	5221.9	5537.0	5725.6
12.5°	3848.9	3850.2	3896.7	3978.1	4134.3	4298.4	4560.6	4950.6	5046.2	5463.4	5756.6
15°	3691.3	3701.7	3739.1	3825.7	3978.1	4142.1	4399.1	4803.4	4910.6	5405.3	5791.4
17.5°	3638.4	3655.2	3668.1	3731.4	3861.8	4025.9	4277.7	4694.9	4808.6	5365.2	5822.4
20°	3687.5	3706.8	3682.3	3704.3	3786.9	3931.6	4182.1	4609.6	4725.9	5320.0	5826.3
22.5°	3898.0	3916.1	3843.7	3780.5	3775.3	3863.1	4103.3	4542.5	4662.6	5286.4	5827.6
25°	4268.7	4280.3	4158.9	4011.6	3868.3	3838.6	4047.8	4496.0	4623.9	5256.7	5803.1
27.5°	4723.3	4732.3	4592.9	4375.9	4087.8	3896.7	4028.4	4468.9	4601.9	5230.9	5761.7
30°	5276.1	5318.7	5131.4	4857.6	4437.9	4068.5	4067.2	4454.7	4577.4	5187.0	5680.4
32.5°	5841.8	5859.9	5730.7	5453.0	4909.3	4370.7	4175.7	4465.0	4570.9	5134.0	5577.0
35°	6415.3	6438.5	6354.6	6131.1	5553.8	4813.7	4387.5	4525.7	4610.9	5115.9	5504.7
37.5°	7157.9	7188.9	7072.7	6814.4	6337.8	5414.3	4740.1	4678.1	4733.6	5167.6	5482.8
40°	8332.0	8317.8	7978.1	7593.2	7195.4	6182.8	5243.8	4936.4	4968.7	5334.2	5549.9
42.5°	9698.5	9663.6	9078.5	8474.1	8138.2	7112.7	5910.3	5384.6	5378.1	5662.3	5786.3
45°	10788.6	10760.2	10233.2	9487.9	9219.3	8171.8	6771.8	6052.3	6004.6	6182.8	6222.8
47.5°	11378.8	11380.1	11076.6	10468.3	10461.8	9517.7	7878.6	7018.4	6935.8	7019.7	6977.1
50°	11172.2	11199.3	11167.0	10973.3	11595.8	11281.9	9323.9	8365.6	8198.9	8281.6	8117.6
52.5°	10172.5	10207.4	10398.5	10695.6	12072.4	13414.3	11447.3	10039.4	9845.7	9816.0	9633.9
55°	8400.4	8443.1	8833.1	9640.4	11675.9	14846.7	14797.6	12173.1	11864.5	11584.2	11506.7
57.5°	5790.2	5861.2	6488.9	7687.5	10393.3	15279.4	18787.3	15214.8	14587.1	13608.1	13626.2
60°	3263.8	3346.5	4086.6	5175.4	7805.0	14809.3	21822.5	19821.9	18496.7	15978.1	16112.5
62.5°	2075.6	2164.7	2726.5	3595.8	4683.3	12277.8	23066.3	26226.8	24543.9	18899.7	19031.4
65°	1680.3	1719.1	1983.9	2968.1	3400.7	7396.9	22122.2	31502.9	30875.2	22607.8	21993.0
67.5°	1640.3	1653.2	1790.1	2491.5	3261.2	4157.6	17645.6	32489.7	33185.8	26070.5	23226.5
70°	1620.9	1666.1	2017.4	2377.8	3123.0	3506.6	10603.9	29785.1	30884.3	26975.9	21584.9
72.5°	786.6	784.0	1015.2	2150.5	3518.3	3637.1	5447.9	24099.6	25202.6	23371.1	17737.3
75°	634.2	579.9	554.1	787.9	3382.6	3755.9	3471.8	16582.6	17380.8	15669.4	10903.5
77.5°	601.9	537.3	492.1	493.4	1429.8	3983.2	2940.9	9178.0	9410.4	7077.9	2987.4
80°	498.5	439.1	406.8	458.5	692.3	3793.4	3179.9	4153.7	3811.5	1738.5	994.5
82.5°	346.1	315.1	306.1	384.9	554.1	2703.3	3697.8	2231.8	1871.5	870.5	613.5
85°	220.9	188.6	209.2	280.3	431.4	1247.7	3808.9	1739.8	1383.3	552.8	346.1
87.5°	102.0	82.7	103.3	155.0	281.6	430.1	3624.2	1954.2	1424.6	291.9	218.3
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°	5649.4	5649.4	5649.4	5649.4	5649.4	5649.4	5649.4	5649.4	5649.4	5649.4	5649.4
2.5°	5652.0	5627.4	5608.0	5571.9	5531.8	5493.1	5458.2	5414.3	5401.4	5389.8	5407.8
5°	5670.0	5645.5	5574.5	5463.4	5340.7	5225.7	5110.8	5012.6	4951.9	4918.3	4937.7
7.5°	5697.2	5662.3	5515.0	5311.0	5090.1	4888.6	4680.7	4514.1	4391.4	4333.2	4350.0
10°	5721.7	5654.5	5414.3	5108.2	4785.3	4485.7	4157.6	3886.4	3684.9	3579.0	3604.8
12.5°	5732.0	5624.8	5273.5	4855.0	4412.0	3972.9	3489.8	3084.3	2795.0	2689.1	2667.1
15°	5742.4	5591.2	5118.5	4567.0	3961.3	3340.0	2663.2	2177.6	1937.4	1884.4	1872.8
17.5°	5744.9	5533.1	4942.9	4254.5	3433.0	2587.0	1821.1	1512.4	1513.7	1599.0	1609.3
20°	5717.8	5446.6	4729.8	3865.7	2800.1	1788.8	1250.2	1197.3	1392.3	1605.4	1631.3
22.5°	5655.8	5331.6	4488.2	3412.4	2075.6	1177.9	967.4	1025.5	1277.4	1538.3	1568.0
25°	5577.0	5192.2	4202.8	2886.7	1374.2	842.1	811.1	882.1	1052.6	1227.0	1243.8
27.5°	5469.8	5026.8	3882.5	2284.8	892.5	693.6	714.2	762.0	831.8	909.3	917.0
30°	5331.6	4829.2	3540.2	1666.1	674.2	623.8	653.5	679.4	709.1	753.0	756.9
32.5°	5172.8	4639.4	3188.9	1150.8	598.0	587.7	610.9	623.8	647.1	674.2	676.8
35°	5039.7	4458.5	2824.7	813.7	565.7	560.5	576.0	581.2	603.2	632.9	635.5
37.5°	4963.5	4311.3	2448.8	656.1	543.8	536.0	545.0	545.0	576.0	620.0	626.4
40°	4968.7	4229.9	2073.0	592.8	525.7	515.3	516.6	516.6	556.7	604.5	608.3
42.5°	5109.5	4250.6	1739.8	568.3	511.5	499.8	493.4	497.3	530.8	561.8	564.4
45°	5440.1	4396.5	1427.2	552.8	497.3	493.4	479.2	477.9	490.8	505.0	505.0
47.5°	5982.6	4684.6	1215.4	542.5	485.6	484.3	467.6	450.8	449.5	454.6	454.6
50°	6864.7	5180.5	1073.3	530.8	477.9	467.6	448.2	422.3	413.3	417.2	417.2
52.5°	8187.3	6065.3	1019.1	515.3	461.1	444.3	422.3	396.5	388.8	390.1	390.1
55°	9921.9	7424.0	1011.3	497.3	443.0	415.9	397.8	378.4	369.4	372.0	372.0
57.5°	12041.4	9303.2	1149.5	468.8	418.5	387.5	377.1	364.2	357.8	361.6	360.4
60°	14618.1	11762.4	1704.9	439.1	393.9	361.6	361.6	351.3	346.1	350.0	348.7
62.5°	17586.1	14587.1	2397.2	417.2	368.1	341.0	346.1	341.0	335.8	338.4	337.1
65°	20218.4	16427.6	2244.8	400.4	342.3	321.6	330.6	328.1	324.2	326.8	325.5
67.5°	20294.6	15745.6	1260.6	382.3	317.7	302.2	315.1	313.9	311.3	313.9	312.6
70°	18111.8	13295.5	710.4	348.7	291.9	279.0	297.1	295.8	293.2	298.4	297.1
72.5°	14510.9	9648.1	519.2	307.4	266.1	254.4	275.1	273.8	273.8	281.6	277.7
75°	8350.1	4964.8	414.6	263.5	238.9	229.9	248.0	249.3	251.9	262.2	254.4
77.5°	2380.4	1547.3	338.4	223.4	205.4	201.5	219.6	222.2	223.4	235.1	224.7
80°	884.7	713.0	279.0	187.3	167.9	169.2	186.0	189.9	191.2	202.8	189.9
82.5°	564.4	470.1	226.0	144.7	131.7	130.4	151.1	156.3	156.3	157.6	149.8
85°	329.4	281.6	170.5	104.6	93.0	89.1	112.4	121.4	117.5	115.0	109.8
87.5°	220.9	193.7	104.6	58.1	50.4	47.8	65.9	72.3	69.7	65.9	62.0
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)