

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: P299189

Luminaire Tested: **GLNA-AF-06-LED-E1-SL2-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299189
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-SL2-7050-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Narrow OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28078.7 lumens
Efficiency: N/A
Efficacy: 112.8 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 - G4

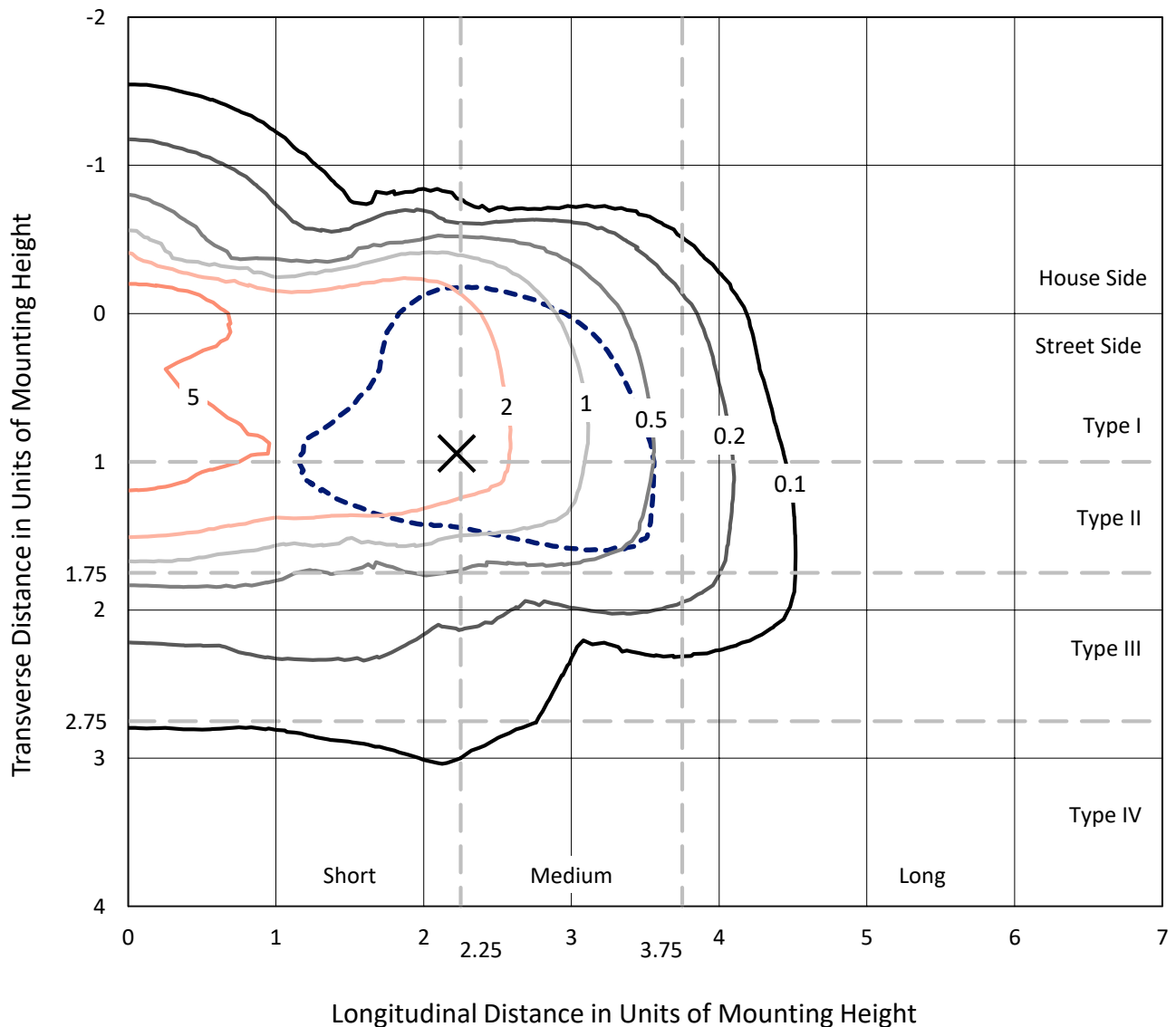
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

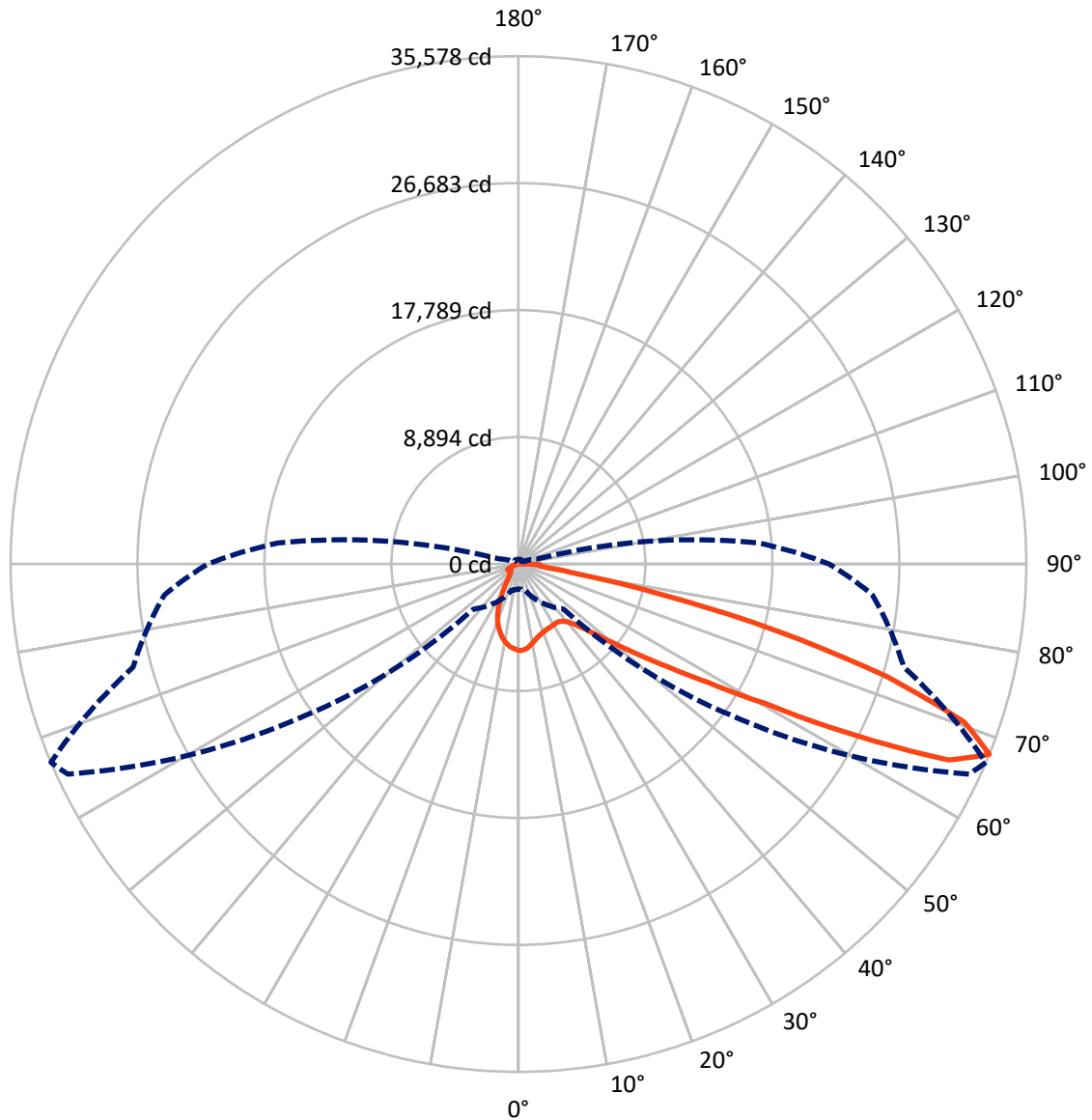
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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	4652.3	0.0	4652.3
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	23426.4	0.0	23426.4
	% Fixture	83.4	0.0	83.4
Total	Lumens	28078.7	0.0	28078.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.7	1.8
10°-20°	1195.6	4.3
20°-30°	1620.6	5.8
30°-40°	2303.9	8.2
40°-50°	3854.5	13.7
50°-60°	6097.8	21.7
60°-70°	7768.0	27.7
70°-80°	4068.9	14.5
80°-90°	652.6	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°	28078.7	100.0
0°-180°	28078.7	100.0

Coefficient of Utilization



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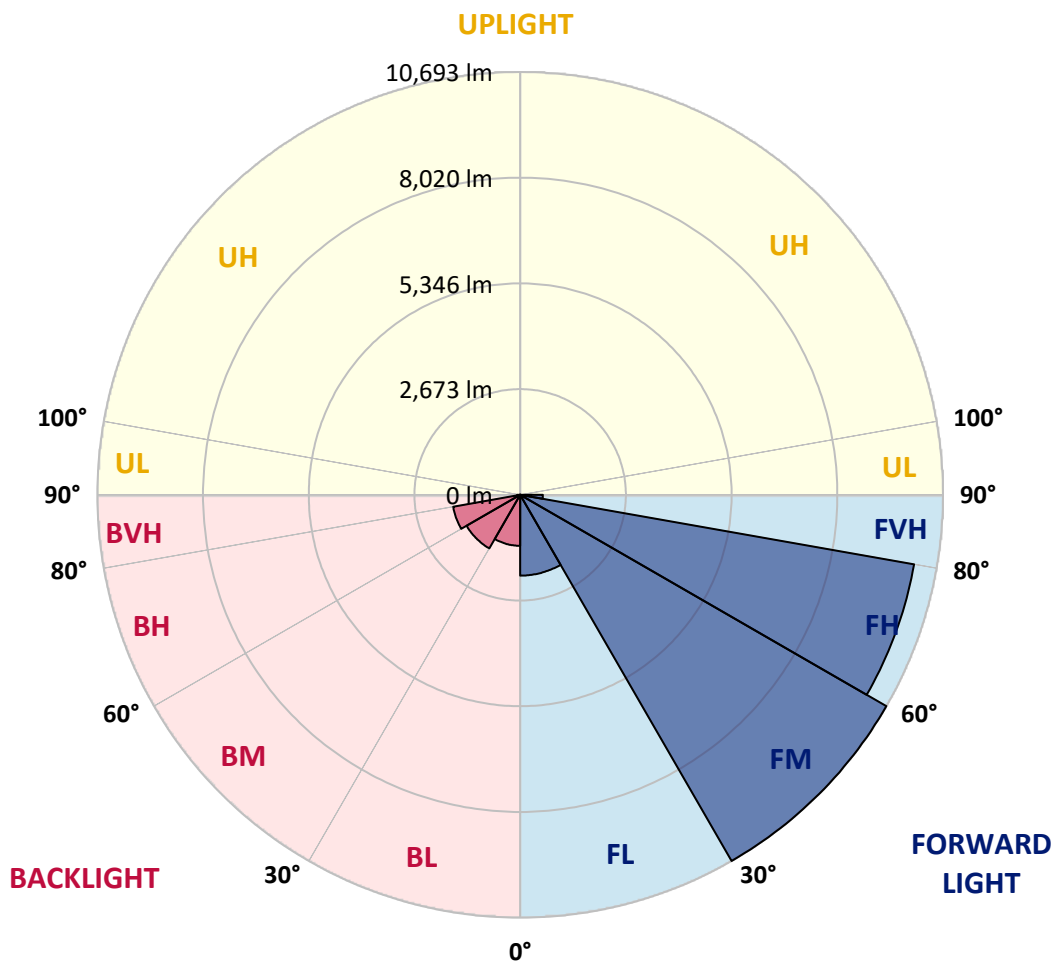
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2043.4	7.3			
FM (30°-60°)	10693.0	38.1			
FH (60°-80°)	10116.2	36.0			G4/12000
FVH (80°-90°)	573.8	2.0			G4/750
BL (0°-30°)	1289.5	4.6	B3/2500		
BM (30°-60°)	1563.3	5.6	B2/2500		
BH (60°-80°)	1720.7	6.1	B3/2500		G3/2500
BVH (80°-90°)	78.8	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°	6056.5	6056.5	6056.5	6056.5	6056.5	6056.5	6056.5	6056.5	6056.5	6056.5	6056.5
2.5°	5807.3	5817.0	5847.4	5866.8	5954.0	5991.4	6017.7	6044.0	6048.2	6060.7	6048.2
5°	5198.0	5218.8	5275.6	5339.3	5508.2	5641.1	5781.0	5926.4	5952.7	6046.8	6073.1
7.5°	4725.9	4720.3	4767.4	4843.5	5016.6	5200.8	5445.9	5735.3	5792.0	6003.9	6106.4
10°	4381.1	4376.9	4426.8	4505.7	4670.5	4844.9	5121.9	5517.9	5598.2	5936.0	6138.2
12.5°	4126.3	4127.7	4177.5	4264.8	4432.3	4608.2	4889.2	5307.4	5409.9	5857.1	6171.4
15°	3957.4	3968.4	4008.6	4101.4	4264.8	4440.6	4716.2	5149.6	5264.5	5794.8	6208.8
17.5°	3900.6	3918.6	3932.4	4000.3	4140.1	4316.0	4586.0	5033.2	5155.1	5751.9	6242.1
20°	3953.2	3974.0	3947.7	3971.2	4059.8	4214.9	4483.5	4941.9	5066.5	5703.4	6246.2
22.5°	4178.9	4198.3	4120.8	4052.9	4047.4	4141.5	4399.1	4869.9	4998.6	5667.4	6247.6
25°	4576.3	4588.8	4458.6	4300.8	4147.1	4115.2	4339.5	4820.0	4957.1	5635.6	6221.3
27.5°	5063.7	5073.4	4923.9	4691.2	4382.5	4177.5	4318.8	4790.9	4933.6	5607.9	6177.0
30°	5656.3	5702.0	5501.3	5207.7	4757.7	4361.7	4360.3	4775.7	4907.2	5560.8	6089.7
32.5°	6262.8	6282.2	6143.7	5846.0	5263.1	4685.7	4476.6	4786.8	4900.3	5504.0	5979.0
35°	6877.6	6902.5	6812.5	6573.0	5954.0	5160.6	4703.7	4851.9	4943.2	5484.6	5901.4
37.5°	7673.8	7707.0	7582.4	7305.5	6794.5	5804.5	5081.7	5015.2	5074.8	5540.0	5877.9
40°	8932.5	8917.2	8553.1	8140.4	7714.0	6628.4	5621.7	5292.2	5326.8	5718.7	5949.9
42.5°	10397.4	10360.0	9732.8	9084.8	8724.8	7625.3	6336.2	5772.7	5765.7	6070.4	6203.3
45°	11566.1	11535.6	10970.7	10171.7	9883.7	8760.8	7259.8	6488.5	6437.3	6628.4	6671.3
47.5°	12198.9	12200.3	11874.9	11222.7	11215.8	10203.6	8446.4	7524.3	7435.6	7525.6	7479.9
50°	11977.3	12006.4	11971.8	11764.1	12431.5	12095.0	9995.9	8968.5	8789.8	8878.5	8702.6
52.5°	10905.6	10943.0	11147.9	11466.4	12942.4	14381.1	12272.3	10763.0	10555.3	10523.4	10328.2
55°	9005.8	9051.5	9469.7	10335.1	12517.3	15916.7	15864.1	13050.4	12719.5	12419.0	12336.0
57.5°	6207.4	6283.6	6956.5	8241.5	11142.4	16380.5	20141.3	16311.3	15638.4	14588.8	14608.2
60°	3499.0	3587.7	4381.1	5548.3	8367.5	15876.5	23395.2	21250.4	19829.7	17129.7	17273.7
62.5°	2225.2	2320.7	2923.0	3854.9	5020.8	13162.6	24728.7	28116.9	26312.7	20261.8	20403.0
65°	1801.4	1843.0	2126.8	3182.0	3645.8	7930.0	23716.5	33773.3	33100.3	24237.1	23578.0
67.5°	1758.5	1772.4	1919.1	2671.0	3496.3	4457.2	18917.2	34831.2	35577.5	27949.4	24900.4
70°	1737.8	1786.2	2162.8	2549.2	3348.1	3759.4	11368.1	31931.7	33110.0	28920.0	23140.5
72.5°	843.3	840.5	1088.3	2305.5	3771.8	3899.2	5840.5	25836.4	27018.9	25055.5	19015.6
75°	679.9	621.7	594.0	844.6	3626.4	4026.6	3722.0	17777.7	18633.4	16798.7	11689.3
77.5°	645.3	576.0	527.6	528.9	1532.8	4270.3	3152.9	9839.4	10088.6	7587.9	3202.7
80°	534.5	470.8	436.2	491.6	742.2	4066.8	3409.0	4453.1	4086.1	1863.8	1066.2
82.5°	371.1	337.9	328.2	412.6	594.0	2898.1	3964.3	2392.7	2006.4	933.3	657.7
85°	236.8	202.2	224.3	300.5	462.5	1337.6	4083.4	1865.1	1483.0	592.6	371.1
87.5°	109.4	88.6	110.8	166.2	301.9	461.1	3885.4	2095.0	1527.3	312.9	234.0
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°	6056.5	6056.5	6056.5	6056.5	6056.5	6056.5	6056.5	6056.5	6056.5	6056.5	6056.5
2.5°	6059.3	6033.0	6012.2	5973.4	5930.5	5889.0	5851.6	5804.5	5790.7	5778.2	5797.6
5°	6078.7	6052.4	5976.2	5857.1	5725.6	5602.3	5479.1	5373.9	5308.8	5272.8	5293.6
7.5°	6107.7	6070.4	5912.5	5693.7	5457.0	5240.9	5018.0	4839.4	4707.9	4645.5	4663.5
10°	6134.1	6062.0	5804.5	5476.3	5130.2	4808.9	4457.2	4166.4	3950.4	3836.9	3864.6
12.5°	6145.1	6030.2	5653.6	5204.9	4730.0	4259.2	3741.4	3306.6	2996.4	2882.9	2859.3
15°	6156.2	5994.2	5487.4	4896.2	4246.8	3580.7	2855.2	2334.5	2077.0	2020.2	2007.8
17.5°	6159.0	5931.9	5299.1	4561.1	3680.4	2773.5	1952.4	1621.4	1622.8	1714.2	1725.3
20°	6129.9	5839.1	5070.6	4144.3	3001.9	1917.8	1340.4	1283.6	1492.7	1721.1	1748.8
22.5°	6063.4	5715.9	4811.7	3658.3	2225.2	1262.8	1037.1	1099.4	1369.4	1649.1	1681.0
25°	5979.0	5566.3	4505.7	3094.7	1473.3	902.8	869.6	945.7	1128.5	1315.4	1333.4
27.5°	5864.0	5389.1	4162.3	2449.5	956.8	743.6	765.7	817.0	891.7	974.8	983.1
30°	5715.9	5177.3	3795.4	1786.2	722.8	668.8	700.6	728.3	760.2	807.3	811.4
32.5°	5545.6	4973.7	3418.7	1233.7	641.1	630.0	654.9	668.8	693.7	722.8	725.6
35°	5403.0	4779.9	3028.3	872.3	606.5	600.9	617.6	623.1	646.6	678.5	681.3
37.5°	5321.3	4622.0	2625.3	703.4	582.9	574.6	584.3	584.3	617.6	664.6	671.6
40°	5326.8	4534.8	2222.4	635.6	563.6	552.5	553.9	553.9	596.8	648.0	652.2
42.5°	5477.7	4556.9	1865.1	609.3	548.3	535.9	528.9	533.1	569.1	602.3	605.1
45°	5832.2	4713.4	1530.1	592.6	533.1	528.9	513.7	512.3	526.2	541.4	541.4
47.5°	6413.8	5022.2	1303.0	581.6	520.6	519.2	501.2	483.2	481.9	487.4	487.4
50°	7359.5	5553.9	1150.7	569.1	512.3	501.2	480.5	452.8	443.1	447.2	447.2
52.5°	8777.4	6502.4	1092.5	552.5	494.3	476.3	452.8	425.1	416.8	418.2	418.2
55°	10637.0	7959.0	1084.2	533.1	474.9	445.9	426.5	405.7	396.0	398.8	398.8
57.5°	12909.2	9973.7	1232.3	502.6	448.6	415.4	404.3	390.5	383.6	387.7	386.3
60°	15671.6	12610.1	1827.8	470.8	422.3	387.7	387.7	376.6	371.1	375.2	373.9
62.5°	18853.6	15638.4	2569.9	447.2	394.6	365.6	371.1	365.6	360.0	362.8	361.4
65°	21675.5	17611.5	2406.5	429.2	366.9	344.8	354.5	351.7	347.6	350.3	348.9
67.5°	21757.2	16880.4	1351.4	409.9	340.6	324.0	337.9	336.5	333.7	336.5	335.1
70°	19417.1	14253.7	761.6	373.9	312.9	299.1	318.5	317.1	314.3	319.9	318.5
72.5°	15556.7	10343.4	556.6	329.5	285.2	272.8	294.9	293.5	293.5	301.9	297.7
75°	8951.8	5322.6	444.5	282.5	256.2	246.5	265.9	267.2	270.0	281.1	272.8
77.5°	2551.9	1658.8	362.8	239.5	220.2	216.0	235.4	238.2	239.5	252.0	240.9
80°	948.5	764.3	299.1	200.8	180.0	181.4	199.4	203.5	204.9	217.4	203.5
82.5°	605.1	504.0	242.3	155.1	141.2	139.9	162.0	167.5	167.5	168.9	160.6
85°	353.1	301.9	182.8	112.2	99.7	95.5	120.5	130.2	126.0	123.2	117.7
87.5°	236.8	207.7	112.2	62.3	54.0	51.2	70.6	77.5	74.8	70.6	66.5
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)