

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: STREETWORKS

Report Number: P299265

Luminaire Tested: **GAA-AF-09-LED-U-SL2-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299265
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: STREETWORKS
Catalog Number: GAA-AF-09-LED-U-SL2-8030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(9) 80 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: 27928.4 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

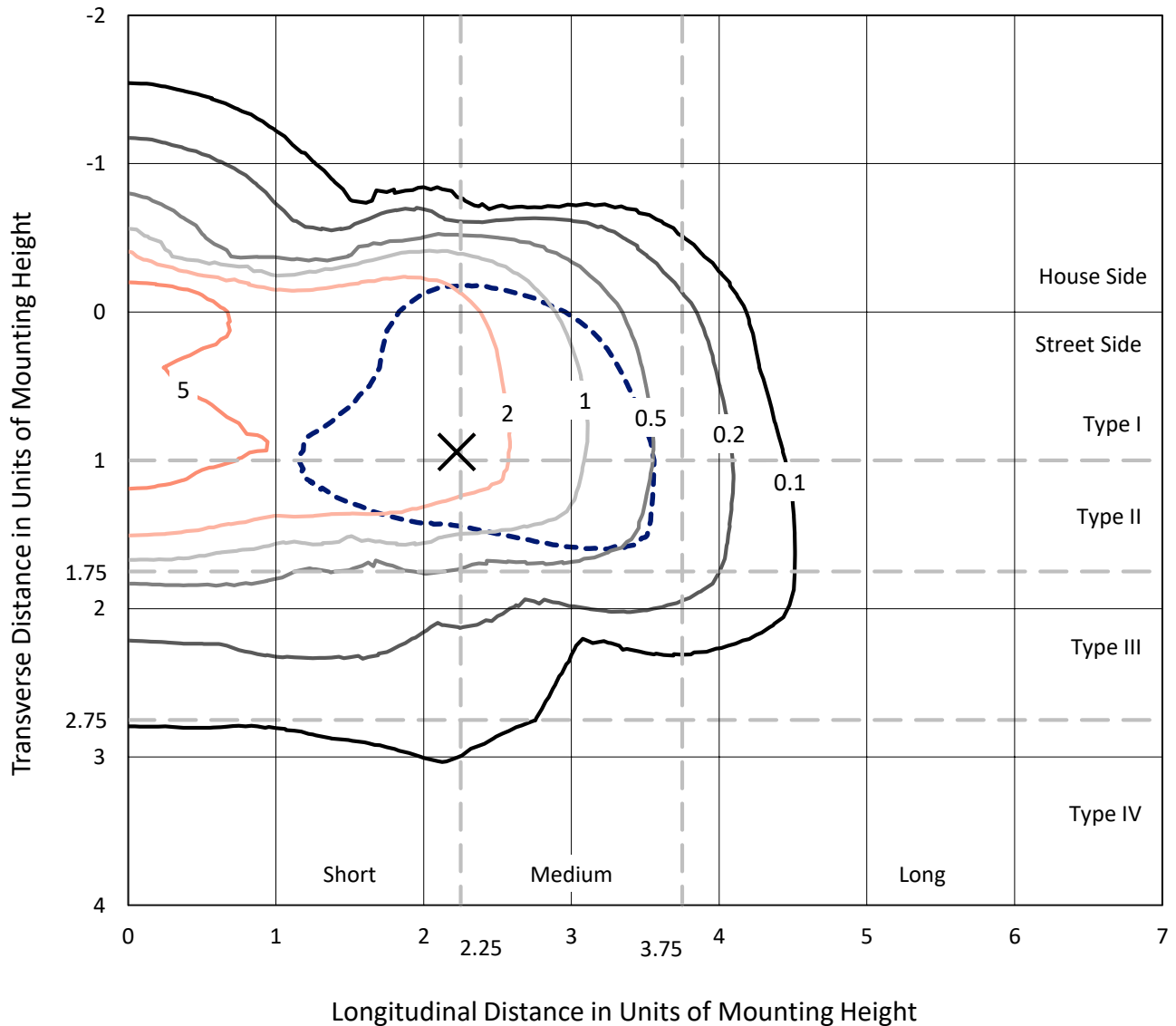
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

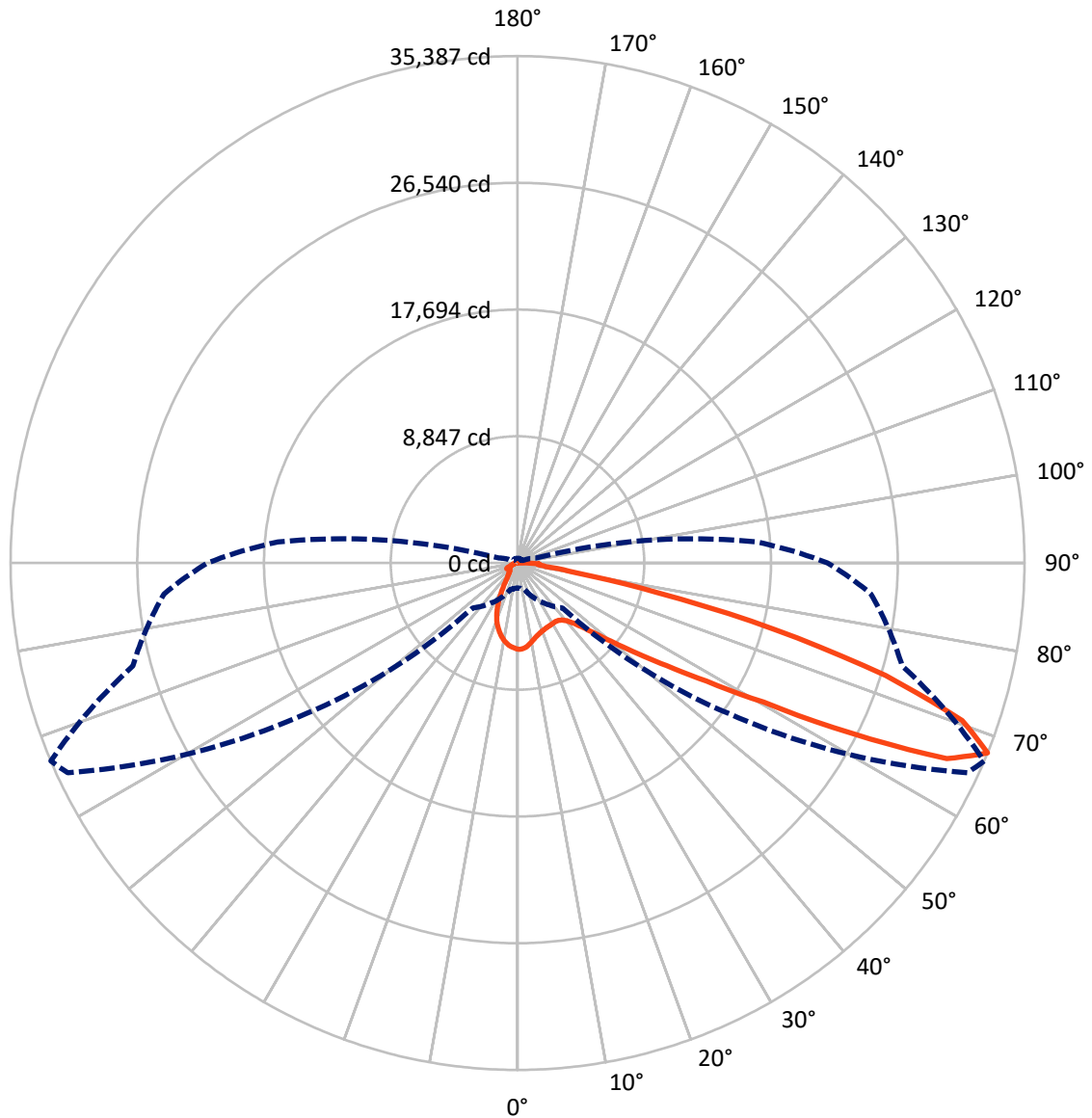
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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	4627.4	0.0	4627.4
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	23300.9	0.0	23300.9
	% Fixture	83.4	0.0	83.4
Total	Lumens	27928.4	0.0	27928.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.9	1.8
10°-20°	1189.2	4.3
20°-30°	1612.0	5.8
30°-40°	2291.6	8.2
40°-50°	3833.9	13.7
50°-60°	6065.2	21.7
60°-70°	7726.4	27.7
70°-80°	4047.1	14.5
80°-90°	649.1	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°	27928.4	100.0
0°-180°	27928.4	100.0

Coefficient of Utilization



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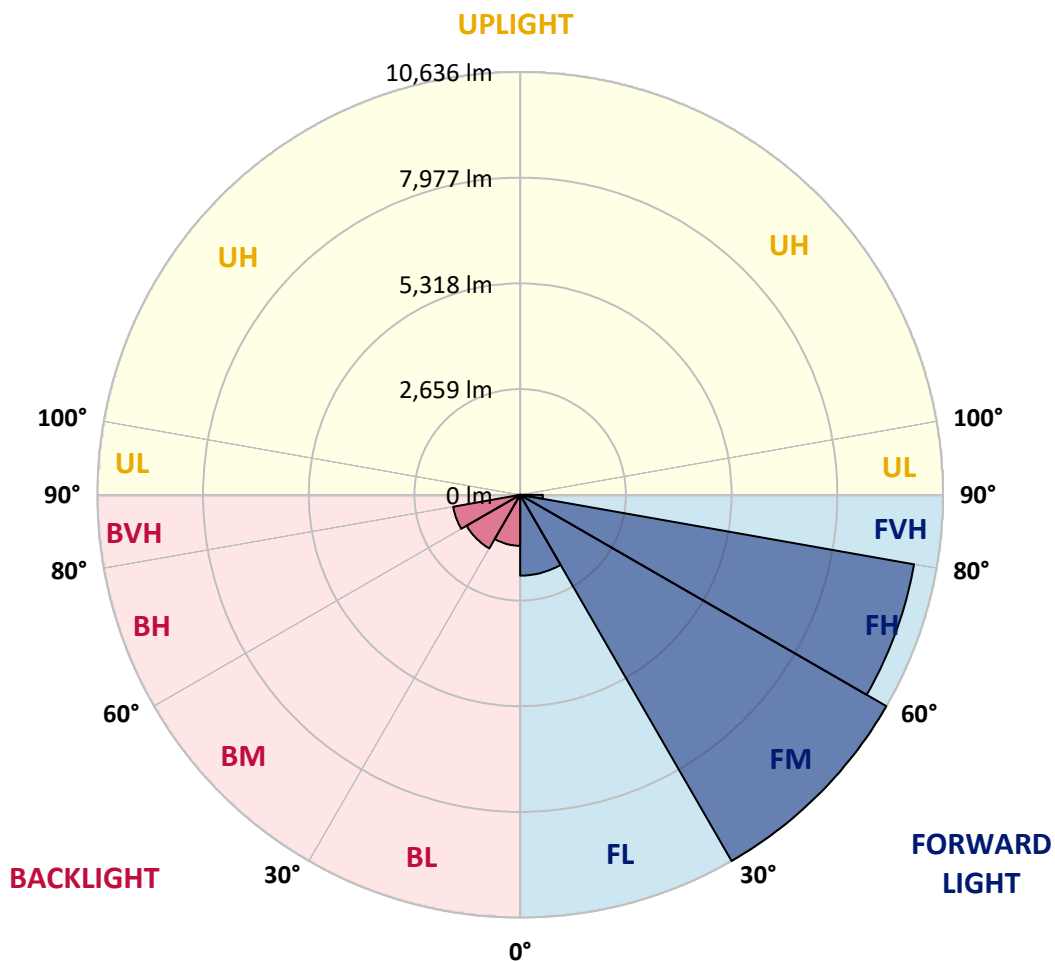
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2032.5	7.3			
FM	(30°-60°)	10635.7	38.1			
FH	(60°-80°)	10062.0	36.0			G4/12000
FVH	(80°-90°)	570.7	2.0			G4/750
BL	(0°-30°)	1282.6	4.6	B3/2500		
BM	(30°-60°)	1555.0	5.6	B2/2500		
BH	(60°-80°)	1711.5	6.1	B3/2500		G3/2500
BVH	(80°-90°)	78.3	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6024.1	6024.1	6024.1	6024.1	6024.1	6024.1	6024.1	6024.1	6024.1	6024.1	6024.1
2.5°	5776.2	5785.8	5816.1	5835.4	5922.2	5959.4	5985.5	6011.7	6015.8	6028.2	6015.8
5°	5170.2	5190.8	5247.3	5310.7	5478.7	5610.9	5750.0	5894.6	5920.8	6014.4	6040.6
7.5°	4700.5	4695.0	4741.9	4817.6	4989.8	5172.9	5416.7	5704.6	5761.0	5971.7	6073.7
10°	4357.6	4353.5	4403.1	4481.6	4645.5	4819.0	5094.4	5488.3	5568.2	5904.3	6105.3
12.5°	4104.2	4105.6	4155.2	4241.9	4408.6	4583.5	4863.1	5279.0	5380.9	5825.8	6138.4
15°	3936.2	3947.2	3987.1	4079.4	4241.9	4416.8	4690.9	5122.0	5236.3	5763.8	6175.6
17.5°	3879.7	3897.6	3911.4	3978.9	4118.0	4292.9	4561.4	5006.3	5127.5	5721.1	6208.6
20°	3932.0	3952.7	3926.5	3949.9	4038.1	4192.3	4459.5	4915.4	5039.3	5672.9	6212.8
22.5°	4156.5	4175.8	4098.7	4031.2	4025.7	4119.3	4375.5	4843.8	4971.9	5637.1	6214.1
25°	4551.8	4564.2	4434.7	4277.7	4124.9	4093.2	4316.3	4794.2	4930.5	5605.4	6188.0
27.5°	5036.6	5046.2	4897.5	4666.1	4359.0	4155.2	4295.6	4765.3	4907.1	5577.9	6143.9
30°	5626.1	5671.5	5471.8	5179.8	4732.2	4338.3	4337.0	4750.1	4881.0	5531.0	6057.1
32.5°	6229.3	6248.6	6110.8	5814.7	5234.9	4660.6	4452.6	4761.1	4874.1	5474.6	5947.0
35°	6840.8	6865.6	6776.1	6537.8	5922.2	5133.0	4678.5	4825.9	4916.8	5455.3	5869.8
37.5°	7632.7	7665.8	7541.8	7266.4	6758.2	5773.4	5054.5	4988.4	5047.6	5510.4	5846.4
40°	8884.6	8869.5	8507.3	8096.8	7672.6	6592.9	5591.6	5263.8	5298.3	5688.0	5918.0
42.5°	10341.8	10304.6	9680.7	9036.1	8678.0	7584.5	6302.3	5741.7	5734.9	6037.9	6170.1
45°	11504.1	11473.8	10911.9	10117.3	9830.8	8713.8	7220.9	6453.8	6402.8	6592.9	6635.6
47.5°	12133.6	12134.9	11811.3	11162.6	11155.7	10148.9	8401.2	7484.0	7395.8	7485.3	7439.9
50°	11913.2	11942.1	11907.7	11701.1	12364.9	12030.3	9942.4	8920.4	8742.8	8830.9	8656.0
52.5°	10847.2	10884.4	11088.2	11405.0	12873.1	14304.1	12206.5	10705.3	10498.8	10467.1	10272.9
55°	8957.6	9003.1	9419.0	10279.8	12450.3	15831.5	15779.1	12980.6	12651.4	12352.5	12269.9
57.5°	6174.2	6249.9	6919.3	8197.4	11082.7	16292.8	20033.4	16224.0	15554.6	14510.7	14530.0
60°	3480.3	3568.4	4357.6	5518.6	8322.7	15791.5	23270.0	21136.6	19723.6	17037.9	17181.2
62.5°	2213.2	2308.3	2907.4	3834.3	4993.9	13092.1	24596.3	27966.4	26171.8	20153.3	20293.7
65°	1791.8	1833.1	2115.5	3164.9	3626.3	7887.5	23589.5	33592.4	32923.1	24107.3	23451.8
67.5°	1749.1	1762.9	1908.9	2656.7	3477.6	4433.4	18816.0	34644.7	35387.0	27799.7	24767.0
70°	1728.4	1776.6	2151.3	2535.5	3330.2	3739.2	11307.2	31760.7	32932.7	28765.2	23016.6
72.5°	838.7	836.0	1082.5	2293.1	3751.6	3878.3	5809.2	25698.1	26874.2	24921.3	18913.7
75°	676.2	618.4	590.8	840.1	3607.0	4005.0	3702.0	17682.5	18533.6	16708.8	11626.7
77.5°	641.8	572.9	524.7	526.1	1524.6	4247.4	3136.0	9786.7	10034.6	7547.3	3185.6
80°	531.6	468.3	433.8	488.9	738.2	4045.0	3390.8	4429.2	4064.3	1853.8	1060.5
82.5°	369.1	336.0	326.4	410.4	590.8	2882.6	3943.1	2379.9	1995.6	928.3	654.2
85°	235.5	201.1	223.1	298.9	460.0	1330.4	4061.5	1855.2	1475.0	589.5	369.1
87.5°	108.8	88.1	110.2	165.3	300.2	458.6	3864.6	2083.8	1519.1	311.3	232.8
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°	6024.1	6024.1	6024.1	6024.1	6024.1	6024.1	6024.1	6024.1	6024.1	6024.1	6024.1
2.5°	6026.8	6000.7	5980.0	5941.4	5898.8	5857.4	5820.2	5773.4	5759.6	5747.3	5766.5
5°	6046.1	6019.9	5944.2	5825.8	5694.9	5572.3	5449.8	5345.1	5280.4	5244.6	5265.2
7.5°	6075.0	6037.9	5880.8	5663.2	5427.7	5212.9	4991.1	4813.5	4682.6	4620.7	4638.6
10°	6101.2	6029.6	5773.4	5447.0	5102.7	4783.2	4433.4	4144.1	3929.3	3816.4	3843.9
12.5°	6112.2	5997.9	5623.3	5177.1	4704.7	4236.4	3721.3	3288.9	2980.4	2867.4	2844.0
15°	6123.2	5962.1	5458.0	4869.9	4224.0	3561.6	2839.9	2322.0	2065.9	2009.4	1997.0
17.5°	6126.0	5900.1	5270.7	4536.7	3660.7	2758.6	1941.9	1612.8	1614.1	1705.0	1716.1
20°	6097.1	5807.9	5043.5	4122.1	2985.9	1907.5	1333.2	1276.7	1484.7	1711.9	1739.5
22.5°	6031.0	5685.3	4785.9	3638.7	2213.2	1256.0	1031.6	1093.5	1362.1	1640.3	1672.0
25°	5947.0	5536.5	4481.6	3078.1	1465.4	898.0	864.9	940.7	1122.5	1308.4	1326.3
27.5°	5832.6	5360.2	4140.0	2436.4	951.7	739.6	761.6	812.6	886.9	969.6	977.8
30°	5685.3	5149.5	3775.0	1776.6	718.9	665.2	696.9	724.4	756.1	802.9	807.1
32.5°	5515.9	4947.1	3400.4	1227.1	637.7	626.6	651.4	665.2	690.0	718.9	721.7
35°	5374.0	4754.3	3012.0	867.7	603.2	597.7	614.3	619.8	643.2	674.9	677.6
37.5°	5292.8	4597.3	2611.3	699.6	579.8	571.6	581.2	581.2	614.3	661.1	668.0
40°	5298.3	4510.5	2210.5	632.2	560.5	549.5	550.9	550.9	593.6	644.6	648.7
42.5°	5448.4	4532.5	1855.2	606.0	545.4	533.0	526.1	530.2	566.0	599.1	601.9
45°	5801.0	4688.2	1521.9	589.5	530.2	526.1	511.0	509.6	523.4	538.5	538.5
47.5°	6379.4	4995.3	1296.0	578.4	517.8	516.5	498.6	480.7	479.3	484.8	484.8
50°	7320.1	5524.1	1144.5	566.0	509.6	498.6	477.9	450.4	440.7	444.9	444.9
52.5°	8730.4	6467.6	1086.6	549.5	491.7	473.8	450.4	422.8	414.6	415.9	415.9
55°	10580.0	7916.4	1078.4	530.2	472.4	443.5	424.2	403.5	393.9	396.6	396.6
57.5°	12840.1	9920.3	1225.8	499.9	446.2	413.2	402.2	388.4	381.5	385.6	384.3
60°	15587.7	12542.6	1818.0	468.3	420.1	385.6	385.6	374.6	369.1	373.2	371.9
62.5°	18752.6	15554.6	2556.2	444.9	392.5	363.6	369.1	363.6	358.1	360.8	359.5
65°	21559.4	17517.2	2393.7	426.9	365.0	342.9	352.6	349.8	345.7	348.4	347.1
67.5°	21640.7	16790.0	1344.2	407.7	338.8	322.3	336.0	334.7	331.9	334.7	333.3
70°	19313.1	14177.4	757.5	371.9	311.3	297.5	316.8	315.4	312.6	318.1	316.8
72.5°	15473.4	10288.0	553.7	327.8	283.7	271.3	293.4	292.0	292.0	300.2	296.1
75°	8903.9	5294.1	442.1	281.0	254.8	245.2	264.4	265.8	268.6	279.6	271.3
77.5°	2538.3	1649.9	360.8	238.3	219.0	214.9	234.1	236.9	238.3	250.7	239.6
80°	943.4	760.2	297.5	199.7	179.0	180.4	198.3	202.5	203.8	216.2	202.5
82.5°	601.9	501.3	241.0	154.3	140.5	139.1	161.1	166.6	166.6	168.0	159.8
85°	351.2	300.2	181.8	111.6	99.2	95.0	119.8	129.5	125.3	122.6	117.1
87.5°	235.5	206.6	111.6	62.0	53.7	51.0	70.2	77.1	74.4	70.2	66.1
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)