

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: P192766

Luminaire Tested: **GAN-AF-08-LED-U-RW-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192766
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-08-LED-U-RW-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51737.6 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 511
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

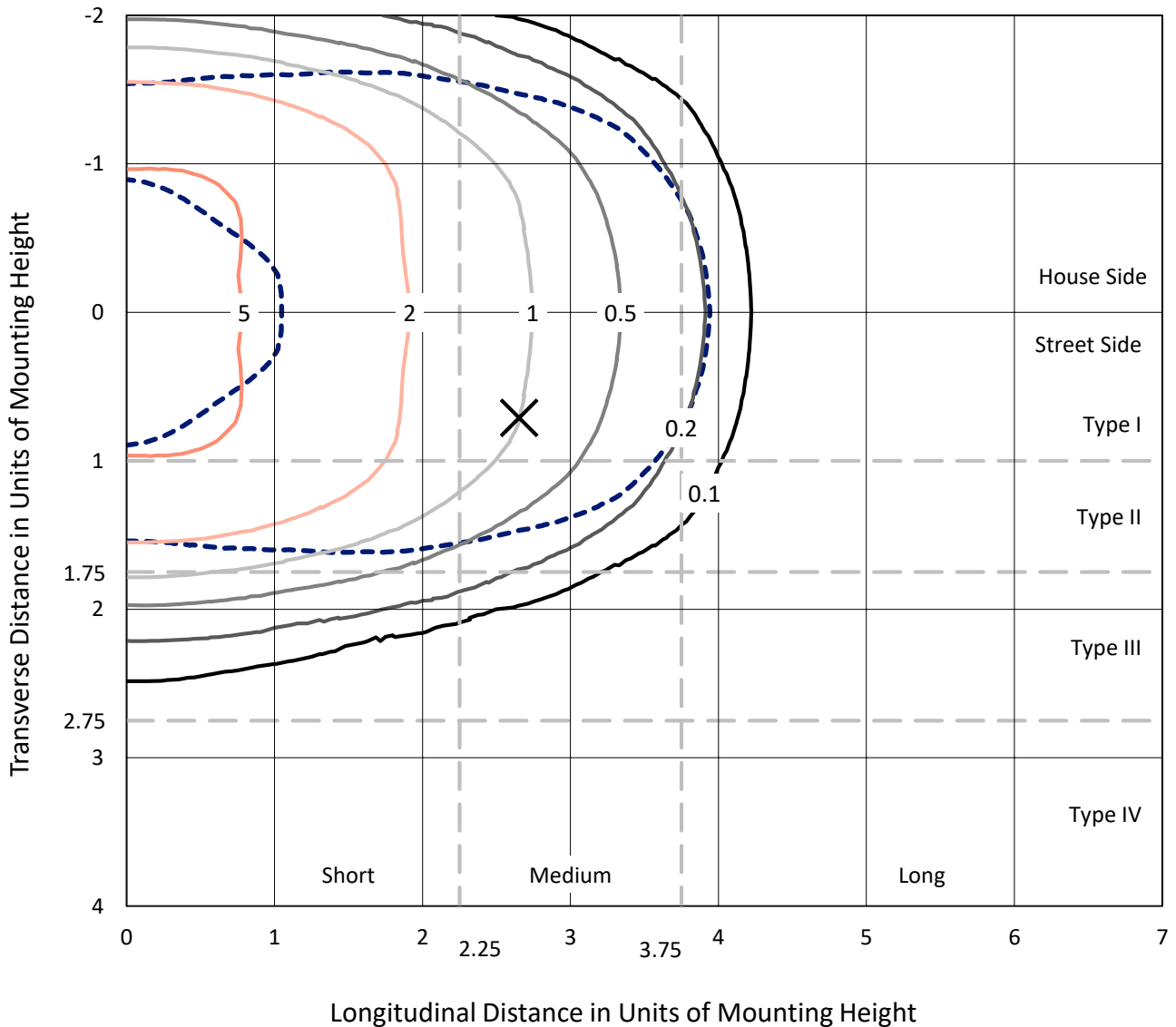


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

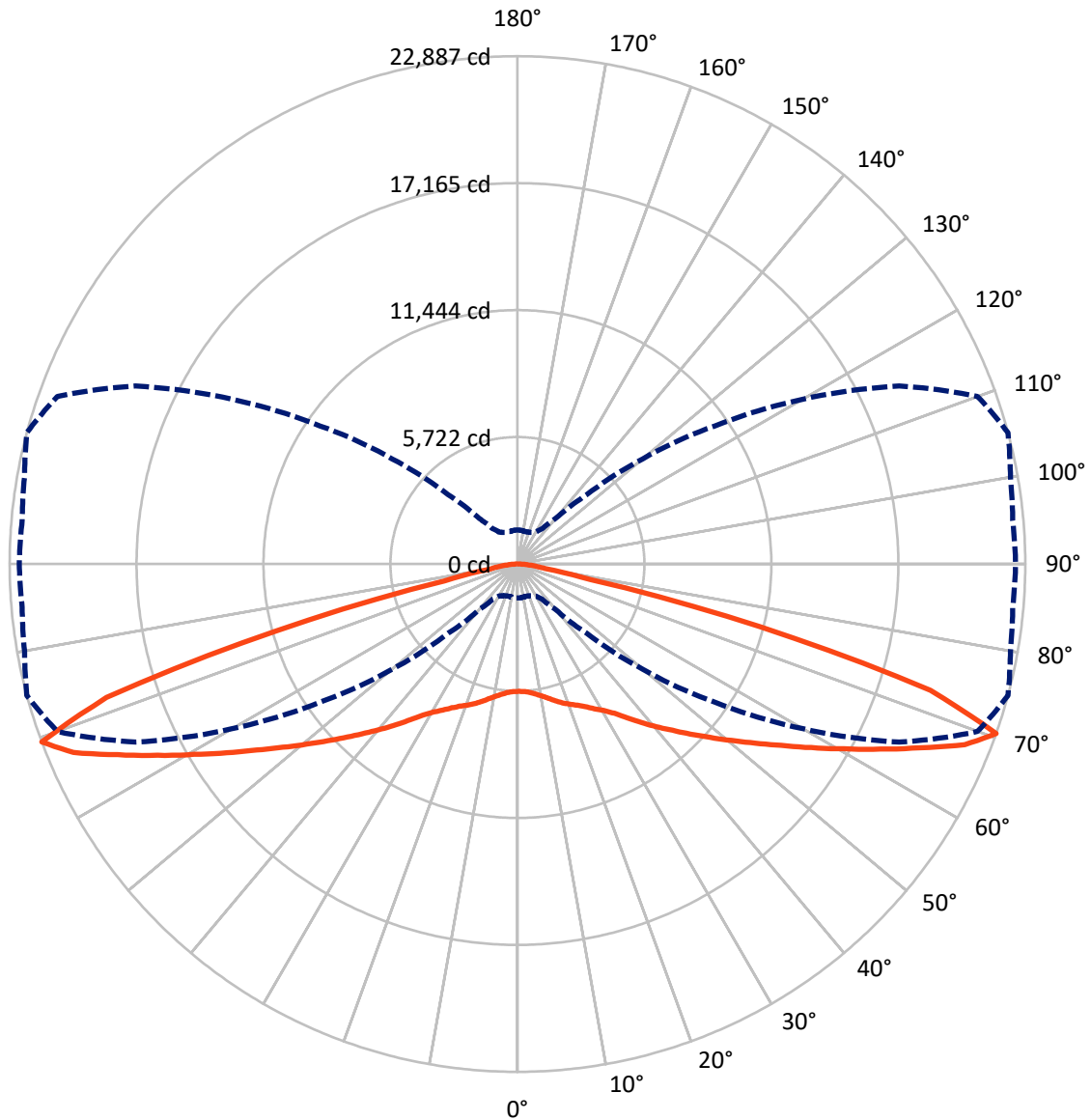


Based on 30 foot mounting height. Maximum calculated value = 6.4 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25868.8	0.0	25868.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25868.8	0.0	25868.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	51737.6	0.0	51737.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	550.4	1.1
10°-20°	1710.2	3.3
20°-30°	3218.8	6.2
30°-40°	5699.9	11.0
40°-50°	9532.1	18.4
50°-60°	13283.1	25.7
60°-70°	12317.9	23.8
70°-80°	4909.1	9.5
80°-90°	516.0	1.0
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°	51737.6	100.0
0°-180°	51737.6	100.0



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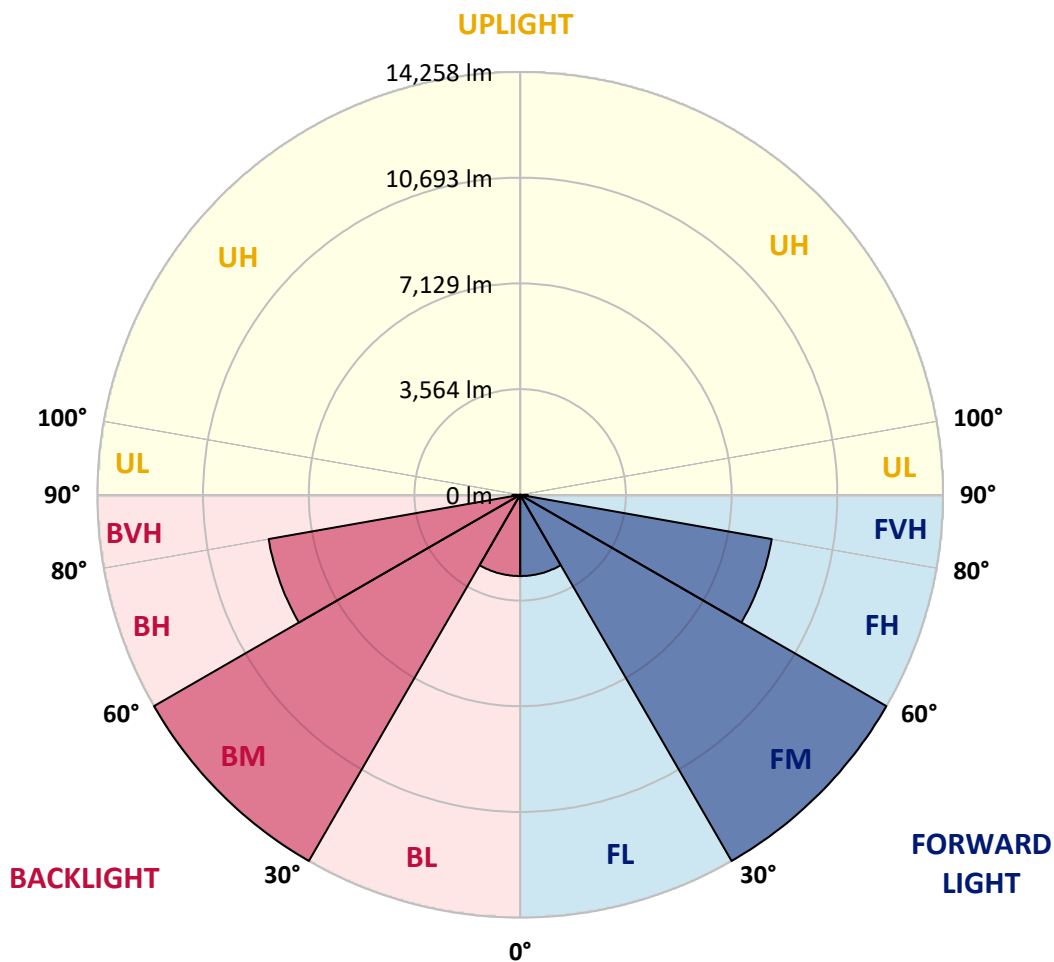
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2739.7	5.3			
FM	(30°-60°)	14257.6	27.6			
FH	(60°-80°)	8613.5	16.6			G4/12000
FVH	(80°-90°)	258.0	0.5			G3/500
BL	(0°-30°)	2739.7	5.3	B4/5000		
BM	(30°-60°)	14257.6	27.6	B5		
BH	(60°-80°)	8613.5	16.6	B5		G4/12000
BVH	(80°-90°)	258.0	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5739.0	5739.0	5739.0	5739.0	5739.0	5739.0	5739.0	5739.0	5739.0	5739.0	5739.0
2.5°	5729.1	5724.2	5729.1	5726.8	5731.5	5731.5	5736.4	5746.3	5746.3	5753.6	5751.1
5°	5672.8	5670.4	5677.7	5685.1	5692.4	5707.1	5721.8	5743.8	5760.9	5773.2	5785.4
7.5°	5562.8	5562.8	5572.7	5589.7	5606.8	5638.7	5672.8	5716.9	5760.9	5797.7	5829.4
10°	5472.4	5477.2	5489.5	5518.8	5548.1	5597.1	5643.6	5707.1	5768.3	5829.4	5878.2
12.5°	5418.6	5426.0	5447.8	5491.9	5540.9	5606.8	5677.7	5758.5	5826.9	5900.3	5949.1
15°	5435.6	5440.6	5472.4	5526.2	5589.7	5672.8	5768.3	5863.6	5944.2	6022.6	6088.6
17.5°	5531.0	5538.4	5575.1	5636.2	5702.2	5800.0	5902.7	6010.4	6110.6	6198.6	6279.2
20°	5702.2	5709.6	5756.0	5822.0	5900.3	6000.5	6103.2	6215.8	6328.2	6421.0	6511.7
22.5°	5944.2	5956.5	6000.5	6066.5	6154.6	6262.2	6384.4	6504.2	6611.9	6697.4	6778.1
25°	6262.2	6289.1	6330.6	6404.0	6496.9	6594.7	6726.8	6849.0	6951.7	7032.4	7091.2
27.5°	6712.2	6748.7	6780.5	6851.4	6941.9	7034.8	7166.9	7274.5	7372.3	7450.5	7494.5
30°	7308.7	7345.4	7377.1	7445.7	7528.8	7616.8	7741.6	7836.8	7898.1	7959.1	7956.7
32.5°	8032.5	8071.6	8083.9	8157.2	8242.7	8338.1	8450.6	8504.4	8553.4	8560.7	8516.6
35°	8842.0	8861.5	8910.3	9008.1	9106.0	9184.3	9291.7	9318.7	9318.7	9282.0	9184.3
37.5°	9729.4	9741.7	9810.2	9920.2	10020.5	10101.1	10174.6	10228.3	10201.4	10123.2	9959.3
40°	10702.7	10724.7	10822.4	10920.3	11032.8	11108.6	11186.8	11196.6	11169.7	11054.8	10832.3
42.5°	11631.8	11651.4	11749.2	11903.2	12049.9	12155.1	12228.6	12243.1	12157.6	12052.4	11776.1
45°	12431.4	12482.8	12609.9	12790.9	13003.6	13152.7	13253.0	13294.5	13218.7	13081.8	12761.5
47.5°	13064.7	13116.1	13297.1	13512.2	13776.3	14018.4	14184.7	14272.6	14253.1	14150.3	13800.7
50°	13529.3	13578.2	13773.9	14037.9	14346.1	14646.7	14930.4	15140.7	15214.1	15167.6	14847.2
52.5°	13583.1	13663.9	13893.6	14248.2	14649.3	15060.1	15463.5	15820.5	16062.5	16099.3	15862.0
55°	12832.4	12913.2	13231.0	13756.8	14353.4	15023.3	15668.9	16270.5	16747.3	16991.8	16867.0
57.5°	11062.1	11206.4	11541.4	12157.6	13035.4	14037.9	15067.4	16136.0	17106.6	17754.6	17879.3
60°	8477.5	8648.8	8986.1	9641.5	10619.6	11815.2	13189.4	14769.0	16483.2	17940.5	18810.9
62.5°	5438.2	5599.5	5954.1	6523.8	7320.9	8616.9	10091.4	11966.8	14270.3	16571.2	18644.6
65°	2794.9	2883.0	3068.8	3413.5	4034.6	5002.9	6325.8	8196.3	10829.8	13668.7	16666.5
67.5°	1770.3	1787.5	1829.0	1877.9	2036.8	2371.8	2988.0	4154.4	6320.8	9282.0	12790.9
70°	1530.7	1530.7	1511.2	1503.9	1523.4	1569.8	1665.2	1936.6	2667.7	4406.2	7377.1
72.5°	1401.1	1386.4	1352.2	1325.4	1320.4	1320.4	1339.9	1381.6	1498.9	1794.8	2887.8
75°	1291.1	1249.5	1203.1	1171.3	1159.0	1146.7	1144.4	1151.7	1176.1	1222.6	1379.1
77.5°	1156.6	1102.8	1049.0	1017.2	1002.6	985.4	970.8	953.7	941.4	956.1	1024.6
80°	995.3	934.0	892.5	873.0	858.2	833.8	802.1	772.7	745.8	740.9	782.6
82.5°	802.1	731.2	733.5	740.9	714.0	679.8	645.5	613.7	567.3	542.8	567.3
85°	648.0	611.3	594.2	640.7	601.5	550.1	496.4	440.1	366.8	308.1	335.0
87.5°	251.9	251.9	376.5	579.5	520.8	425.4	364.4	310.6	193.2	149.1	151.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	5739.0	5739.0	5739.0	5739.0	5739.0	5739.0	5739.0	5739.0
2.5°	5748.6	5753.6	5751.1	5748.6	5748.6	5746.3	5748.6	5748.6
5°	5792.7	5805.0	5805.0	5809.9	5809.9	5812.3	5814.7	5812.3
7.5°	5858.7	5880.8	5895.4	5912.4	5915.0	5917.4	5922.3	5917.4
10°	5924.7	5968.8	6000.5	6032.3	6047.0	6051.9	6056.8	6056.8
12.5°	6007.8	6069.1	6125.3	6181.5	6208.3	6223.1	6223.1	6232.8
15°	6144.8	6205.9	6271.9	6347.8	6394.2	6418.7	6426.0	6426.0
17.5°	6338.0	6391.7	6448.1	6521.3	6580.0	6611.9	6619.2	6616.7
20°	6562.9	6614.2	6646.0	6692.5	6743.9	6780.5	6790.4	6790.4
22.5°	6819.6	6849.0	6854.0	6868.6	6910.1	6959.0	6981.0	6985.9
25°	7103.3	7110.7	7091.2	7091.2	7118.0	7164.4	7186.4	7188.9
27.5°	7470.0	7433.5	7384.5	7367.4	7384.5	7438.4	7465.2	7475.0
30°	7927.3	7839.4	7726.9	7665.7	7655.9	7726.9	7775.8	7783.1
32.5°	8450.6	8323.5	8174.3	8049.5	8017.9	8061.8	8120.4	8118.1
35°	9071.7	8920.2	8739.2	8580.2	8506.9	8550.8	8634.0	8643.8
37.5°	9788.2	9590.1	9382.2	9181.7	9066.8	9079.0	9167.1	9196.5
40°	10587.8	10331.0	10069.4	9800.3	9636.5	9604.8	9712.4	9729.4
42.5°	11443.6	11113.5	10783.4	10450.7	10240.6	10191.6	10316.4	10308.9
45°	12355.6	11935.1	11548.7	11181.9	10932.5	10859.2	10961.9	10961.9
47.5°	13336.1	12817.7	12358.1	11942.4	11671.0	11565.8	11663.7	11671.0
50°	14375.4	13825.2	13284.9	12822.6	12497.4	12363.0	12490.1	12509.6
52.5°	15409.7	14874.2	14329.0	13800.7	13407.1	13243.2	13389.9	13453.5
55°	16458.7	15933.0	15412.1	14896.2	14429.3	14235.9	14392.5	14473.1
57.5°	17566.3	17079.7	16583.4	16062.5	15612.6	15311.9	15478.1	15585.8
60°	18864.8	18449.1	17933.2	17358.6	16903.7	16598.0	16693.4	16788.8
62.5°	19891.7	20053.1	19615.5	18950.4	18365.9	17974.7	18067.6	18167.8
65°	19395.3	21050.8	21439.6	20767.1	19957.8	19348.9	19309.8	19361.2
67.5°	16211.7	19427.2	21772.1	22412.8	21735.5	20889.4	20732.9	20808.8
70°	10844.5	14849.8	18987.1	22067.9	22887.1	22559.6	22405.5	22451.9
72.5°	5208.3	8648.8	12881.3	16977.0	19471.2	20615.6	20982.3	21160.8
75°	1904.8	3433.0	6208.3	9355.4	11294.4	13074.5	14235.9	14710.3
77.5°	1149.3	1386.4	1983.0	2985.6	3381.7	3785.2	3628.7	3706.9
80°	850.9	960.9	1088.1	1222.6	1266.7	1266.7	1217.7	1178.6
82.5°	596.7	667.6	728.6	802.1	821.6	784.9	645.5	513.5
85°	383.9	415.7	442.6	489.1	476.8	454.8	305.6	271.4
87.5°	176.0	200.5	210.4	232.2	222.6	212.7	151.7	127.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)