

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: P190818

Luminaire Tested: **GAN-AF-10-LED-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190818
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63313.5 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G5

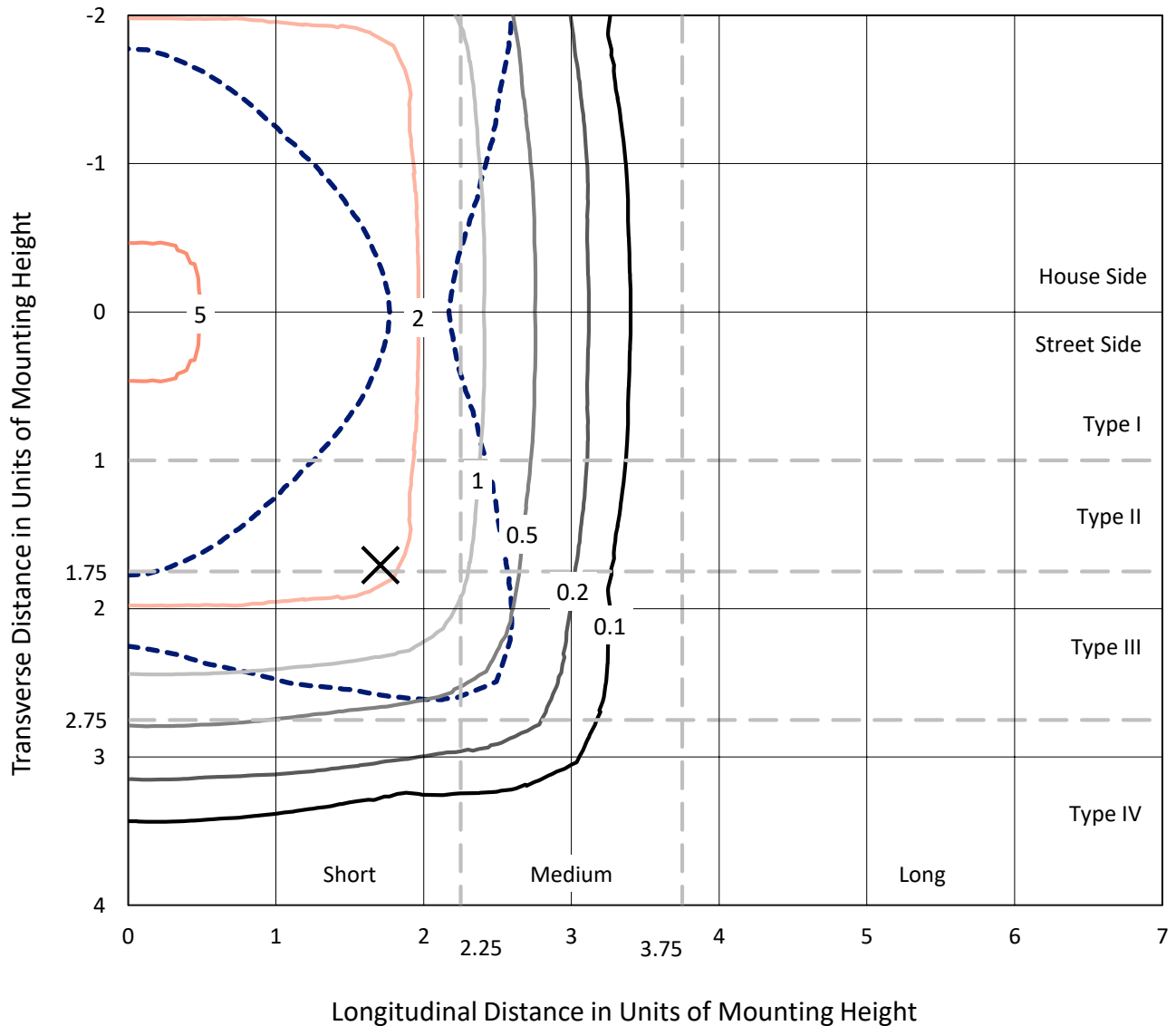
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

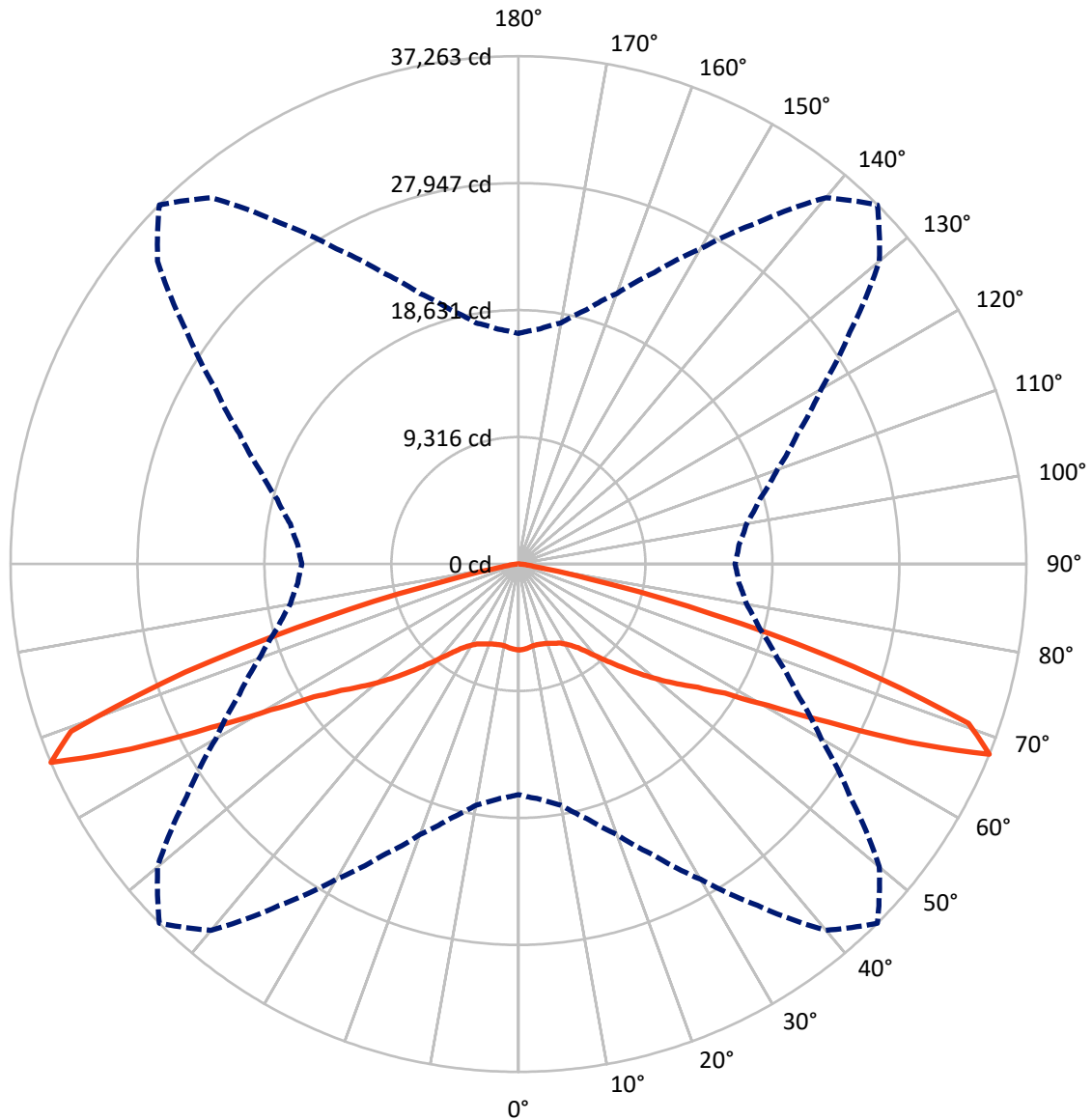


Based on 30 foot mounting height. Maximum calculated value = 7 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	31656.7	0.0	31656.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	31656.7	0.0	31656.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	63313.5	0.0	63313.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	590.5	0.9
10°-20°	1713.6	2.7
20°-30°	2913.1	4.6
30°-40°	4762.1	7.5
40°-50°	8501.2	13.4
50°-60°	14333.2	22.6
60°-70°	22243.0	35.1
70°-80°	7815.2	12.3
80°-90°	441.7	0.7
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°	63313.5	100.0
0°-180°	63313.5	100.0



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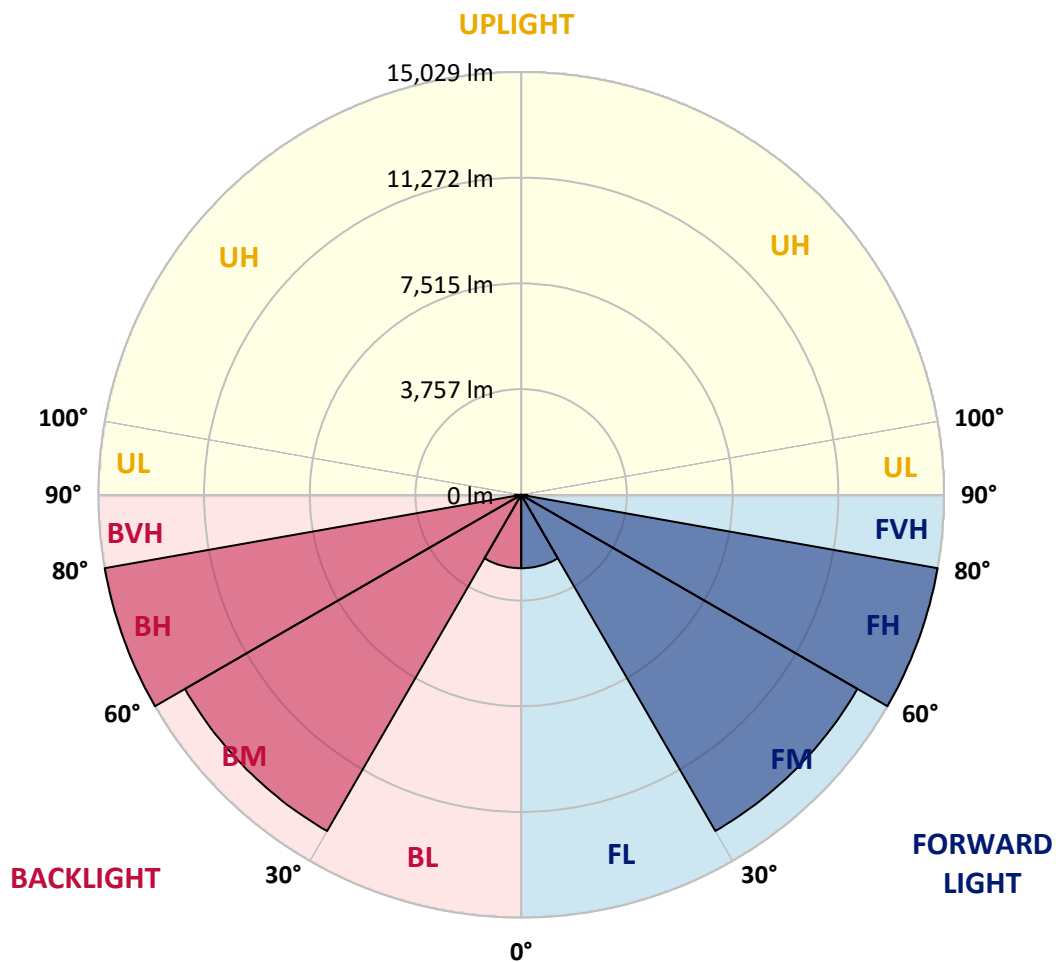
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2608.6	4.1			
FM	(30°-60°)	13798.2	21.8			
FH	(60°-80°)	15029.1	23.7			G5
FVH	(80°-90°)	220.8	0.3			G2/225
BL	(0°-30°)	2608.6	4.1	B4/5000		
BM	(30°-60°)	13798.2	21.8	B5		
BH	(60°-80°)	15029.1	23.7	B5		G5
BVH	(80°-90°)	220.8	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6309.5	6309.5	6309.5	6309.5	6309.5	6309.5	6309.5	6309.5	6309.5	6309.5	6309.5
2.5°	6286.1	6292.0	6292.0	6292.0	6289.1	6289.1	6283.3	6289.1	6286.1	6277.4	6280.3
5°	6233.8	6239.6	6239.6	6236.6	6245.4	6242.5	6233.8	6239.6	6236.6	6230.8	6233.8
7.5°	6158.1	6166.8	6166.8	6163.9	6172.6	6169.7	6163.9	6166.8	6166.8	6158.1	6158.1
10°	6073.6	6079.4	6079.4	6076.5	6091.1	6091.1	6088.2	6096.9	6099.9	6091.1	6085.2
12.5°	5995.0	6003.7	6003.7	6015.4	6030.0	6035.7	6050.3	6062.0	6073.6	6070.7	6059.0
15°	5948.5	5954.3	5965.8	5980.5	6003.7	6024.2	6047.4	6073.6	6096.9	6102.7	6085.2
17.5°	5919.3	5928.0	5945.5	5965.8	5997.9	6032.9	6067.8	6102.7	6134.7	6146.4	6126.0
20°	5910.6	5916.4	5933.8	5968.8	6012.5	6064.9	6114.4	6155.1	6198.8	6213.4	6198.8
22.5°	5928.0	5939.7	5960.0	6000.8	6059.0	6126.0	6184.2	6239.6	6294.9	6321.1	6300.8
25°	6006.7	6018.3	6044.5	6096.9	6160.9	6230.8	6297.8	6361.8	6411.3	6437.5	6423.0
27.5°	6152.2	6166.8	6198.8	6251.3	6321.1	6396.8	6469.6	6522.0	6562.7	6571.5	6554.0
30°	6370.6	6402.6	6440.5	6498.7	6580.2	6644.3	6717.1	6763.6	6813.2	6813.2	6798.6
32.5°	6711.3	6743.3	6784.0	6839.3	6903.4	6973.4	7037.4	7078.1	7130.6	7133.4	7098.5
35°	7220.8	7235.3	7270.3	7305.2	7363.5	7424.6	7479.9	7506.1	7549.8	7552.8	7520.7
37.5°	7893.4	7896.3	7919.6	7931.2	7983.6	8050.6	8103.0	8120.5	8161.2	8155.4	8123.4
40°	8676.6	8691.2	8699.9	8717.4	8772.7	8836.8	8892.1	8900.8	8944.5	8935.7	8895.0
42.5°	9582.1	9587.9	9637.4	9663.6	9716.1	9748.1	9818.0	9826.7	9879.0	9855.8	9809.2
45°	10598.3	10650.7	10697.2	10749.7	10805.0	10842.9	10898.1	10886.5	10921.4	10886.5	10860.3
47.5°	11666.9	11704.7	11809.5	11891.0	11981.3	12013.3	12091.9	12057.0	12091.9	12042.4	12033.7
50°	12843.1	12910.0	13000.4	13093.5	13189.6	13242.0	13343.9	13300.2	13346.8	13300.2	13274.0
52.5°	14001.9	14019.4	14217.4	14354.3	14488.2	14549.3	14610.5	14590.0	14593.0	14590.0	14563.9
55°	15102.5	15143.3	15341.3	15527.6	15760.5	15932.4	16037.1	16025.4	15999.3	15973.1	15929.4
57.5°	16342.9	16383.6	16610.8	16840.7	17105.7	17350.3	17562.8	17781.2	17865.6	17889.0	17792.8
60°	18020.0	18017.0	18319.8	18599.4	18977.9	19341.9	19807.7	20282.3	20826.8	21080.0	20745.2
62.5°	19726.2	19796.0	20232.7	20727.7	21508.1	22268.0	23126.9	23971.3	24833.2	25534.8	24789.5
65°	19522.3	19790.2	20439.5	21560.4	23001.7	24713.8	26565.5	28525.0	30295.3	31512.3	30146.8
67.5°	16919.4	17300.8	17961.7	19324.4	21126.6	23595.7	26705.3	30580.6	35084.9	37262.7	34563.7
70°	12263.7	12694.6	13387.6	14718.2	16503.0	18849.7	22227.2	26880.0	32843.0	35038.3	32065.5
72.5°	6102.7	6335.6	6763.6	7611.0	8962.0	10866.1	13929.1	18401.4	23677.2	25692.0	22975.5
75°	2073.1	2180.8	2253.6	2530.2	2958.2	3706.5	5229.2	8044.8	12272.4	14712.4	12097.7
77.5°	1196.6	1199.6	1249.1	1298.5	1371.4	1452.9	1656.7	2175.0	3761.8	5342.8	3892.8
80°	774.5	771.6	812.3	850.2	899.7	940.4	952.1	1007.4	1161.8	1377.2	1231.6
82.5°	401.8	451.3	541.6	591.1	684.3	701.7	678.4	658.1	695.9	722.1	739.6
85°	221.3	192.2	288.3	372.7	413.5	419.3	419.3	396.0	410.5	401.8	436.7
87.5°	101.9	93.2	113.5	183.4	195.1	165.9	174.7	154.4	110.7	107.7	122.2
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°	6309.5	6309.5	6309.5	6309.5	6309.5	6309.5	6309.5	6309.5
2.5°	6280.3	6283.3	6283.3	6292.0	6294.9	6300.8	6306.6	6309.5
5°	6230.8	6239.6	6233.8	6242.5	6242.5	6248.3	6248.3	6251.3
7.5°	6158.1	6166.8	6166.8	6166.8	6163.9	6172.6	6172.6	6172.6
10°	6082.4	6088.2	6085.2	6079.4	6073.6	6082.4	6079.4	6076.5
12.5°	6059.0	6044.5	6032.9	6027.0	6015.4	6018.3	6009.5	6009.5
15°	6073.6	6047.4	6027.0	6018.3	6006.7	6000.8	5995.0	5997.9
17.5°	6111.5	6079.4	6053.2	6038.7	6024.2	6015.4	6003.7	6006.7
20°	6178.4	6140.6	6102.7	6073.6	6047.4	6032.9	6024.2	6021.2
22.5°	6277.4	6222.1	6166.8	6123.1	6088.2	6067.8	6059.0	6053.2
25°	6391.0	6329.8	6265.8	6216.3	6181.4	6155.1	6137.7	6137.7
27.5°	6533.7	6484.2	6425.9	6367.7	6335.6	6309.5	6297.8	6292.0
30°	6772.4	6725.8	6679.3	6623.9	6583.1	6556.9	6536.6	6519.1
32.5°	7078.1	7040.3	7002.4	6961.7	6923.8	6888.9	6856.8	6842.3
35°	7509.1	7479.9	7453.7	7407.1	7392.6	7372.2	7354.7	7340.2
37.5°	8103.0	8091.3	8091.3	8041.8	8030.3	8021.5	8004.0	8006.9
40°	8883.3	8895.0	8880.4	8862.9	8854.3	8830.9	8830.9	8851.3
42.5°	9806.3	9815.0	9847.0	9818.0	9850.0	9820.8	9803.3	9818.0
45°	10877.8	10909.8	10973.8	10944.8	10965.1	10915.6	10854.4	10857.4
47.5°	12080.2	12109.4	12135.6	12115.2	12118.1	12036.6	11955.0	11934.7
50°	13329.4	13341.0	13355.5	13326.4	13332.2	13242.0	13148.8	13151.8
52.5°	14563.9	14619.2	14677.4	14598.8	14581.3	14479.5	14348.4	14296.0
55°	15976.0	16054.6	15987.6	15850.8	15714.0	15577.1	15405.3	15376.2
57.5°	17717.1	17583.2	17373.6	17114.5	16925.2	16733.0	16558.3	16485.6
60°	20139.5	19635.8	19257.4	18873.0	18631.4	18395.5	18165.6	18130.6
62.5°	23563.7	22693.0	21939.0	21144.1	20494.8	19988.2	19583.5	19469.9
65°	27855.4	25796.9	24012.0	22346.6	20899.5	19807.7	19120.6	18817.7
67.5°	29701.3	25636.7	22576.6	20212.4	18319.8	16998.0	16255.5	15885.7
70°	26099.7	21260.6	17932.6	15565.4	13841.8	12432.5	11759.9	11364.0
72.5°	17955.9	13524.4	10694.3	8729.0	7351.8	6172.6	5706.7	5671.9
75°	8062.3	5339.9	3680.3	2835.9	2387.6	2076.0	1979.9	1907.1
77.5°	2256.5	1668.3	1487.9	1391.7	1298.5	1190.8	1150.1	1158.8
80°	1097.6	1036.6	995.7	934.7	850.2	760.0	719.1	736.6
82.5°	727.9	719.1	745.3	701.7	579.4	492.0	413.5	378.5
85°	442.5	448.4	457.2	460.0	390.2	273.7	186.4	209.6
87.5°	174.7	200.9	218.4	227.1	212.6	131.0	104.9	107.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)