

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: P191628

Luminaire Tested: **GAN-AF-10-LED-U-5MQ-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191628
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-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67896 lumens
Efficiency: N/A
Efficacy: 106.1 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): 640
Input Voltage (V): NR
Input Current (A_{in}): 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

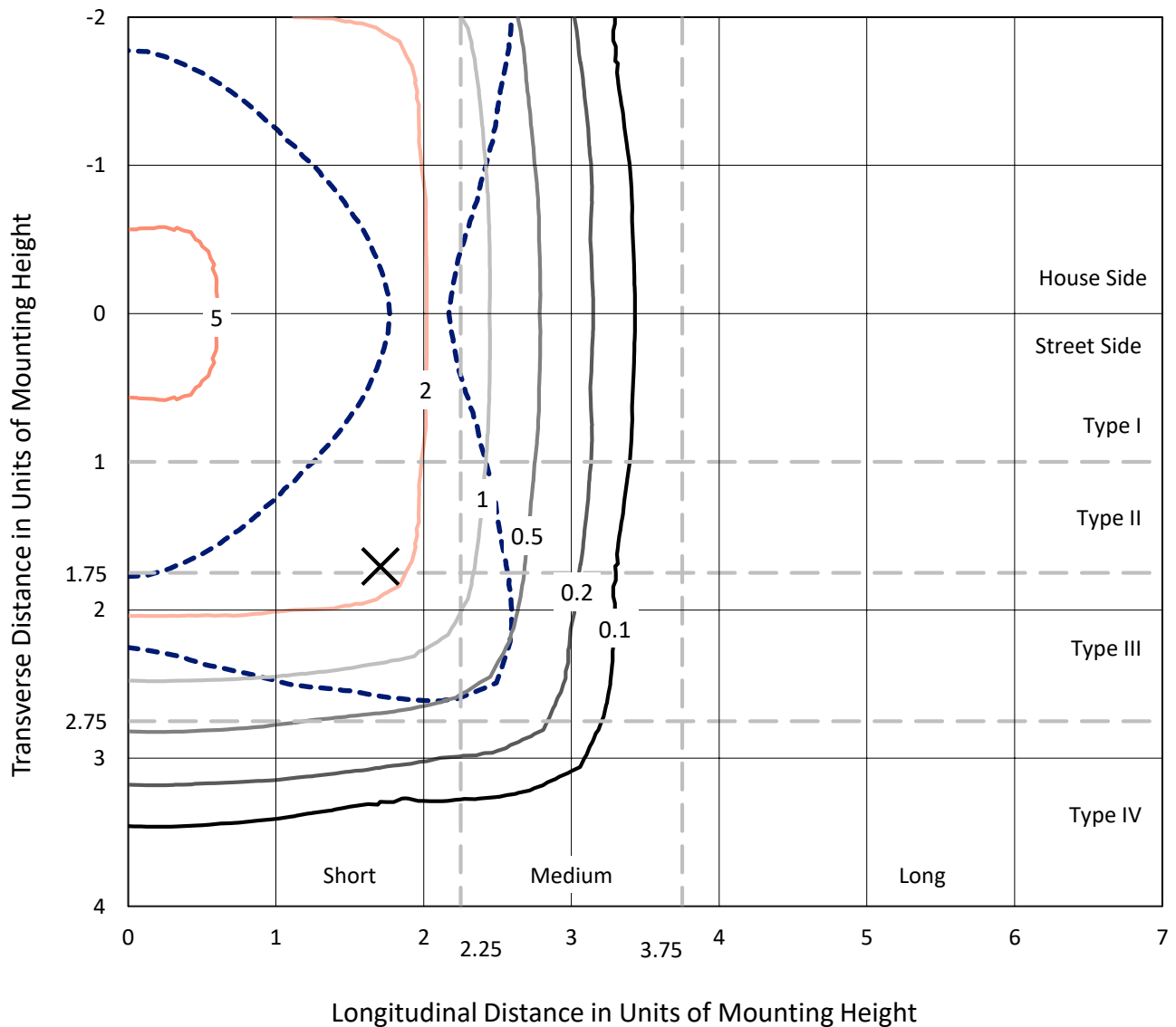


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Iso-Footcandle Lines of Horizontal Illumination

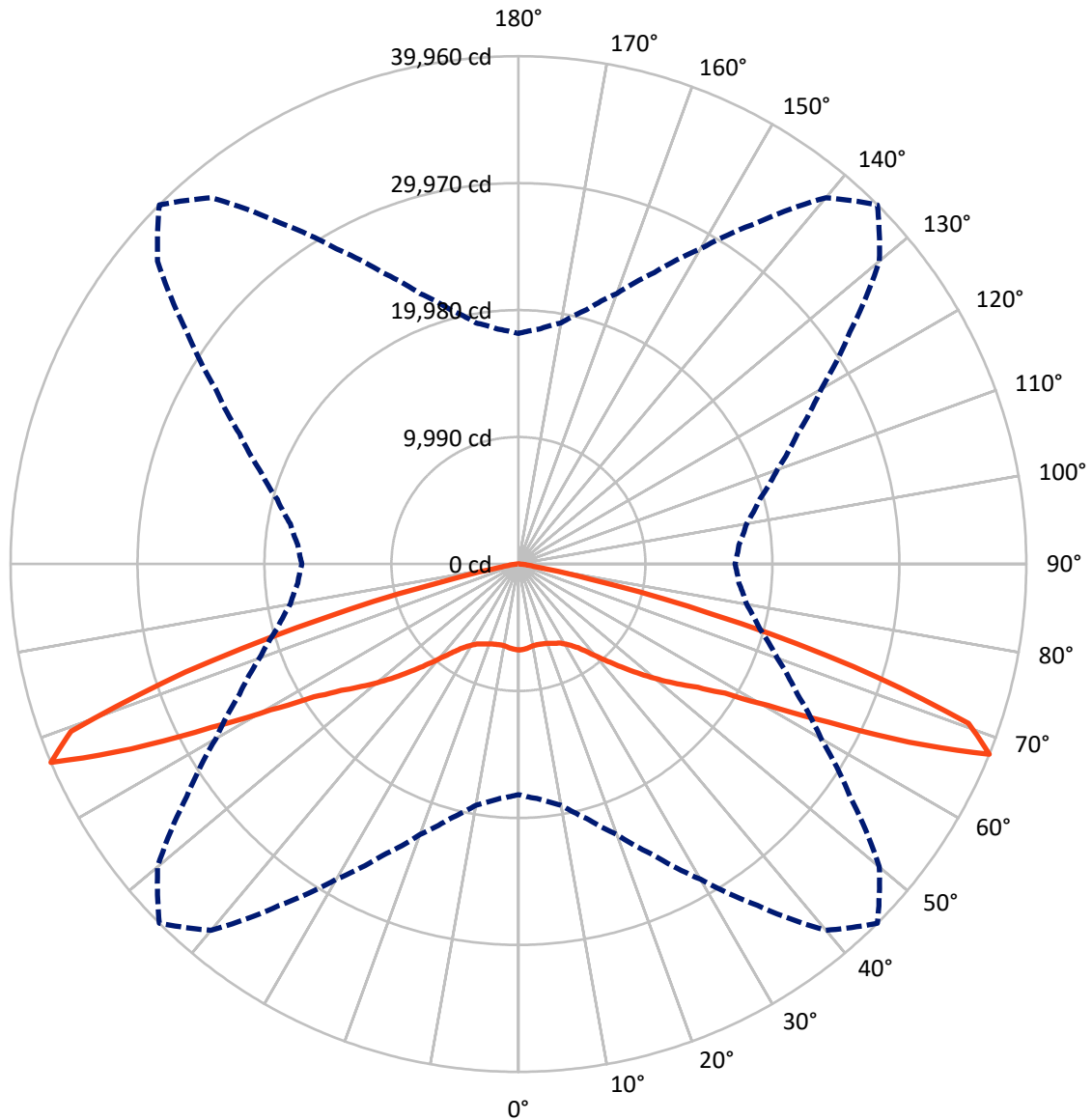
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.5 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	33948.0	0.0	33948.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	33948.0	0.0	33948.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	67896.0	0.0	67896.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	633.3	0.9
10°-20°	1837.7	2.7
20°-30°	3124.0	4.6
30°-40°	5106.7	7.5
40°-50°	9116.4	13.4
50°-60°	15370.6	22.6
60°-70°	23852.9	35.1
70°-80°	8380.8	12.3
80°-90°	473.6	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°	67896.0	100.0
0°-180°	67896.0	100.0



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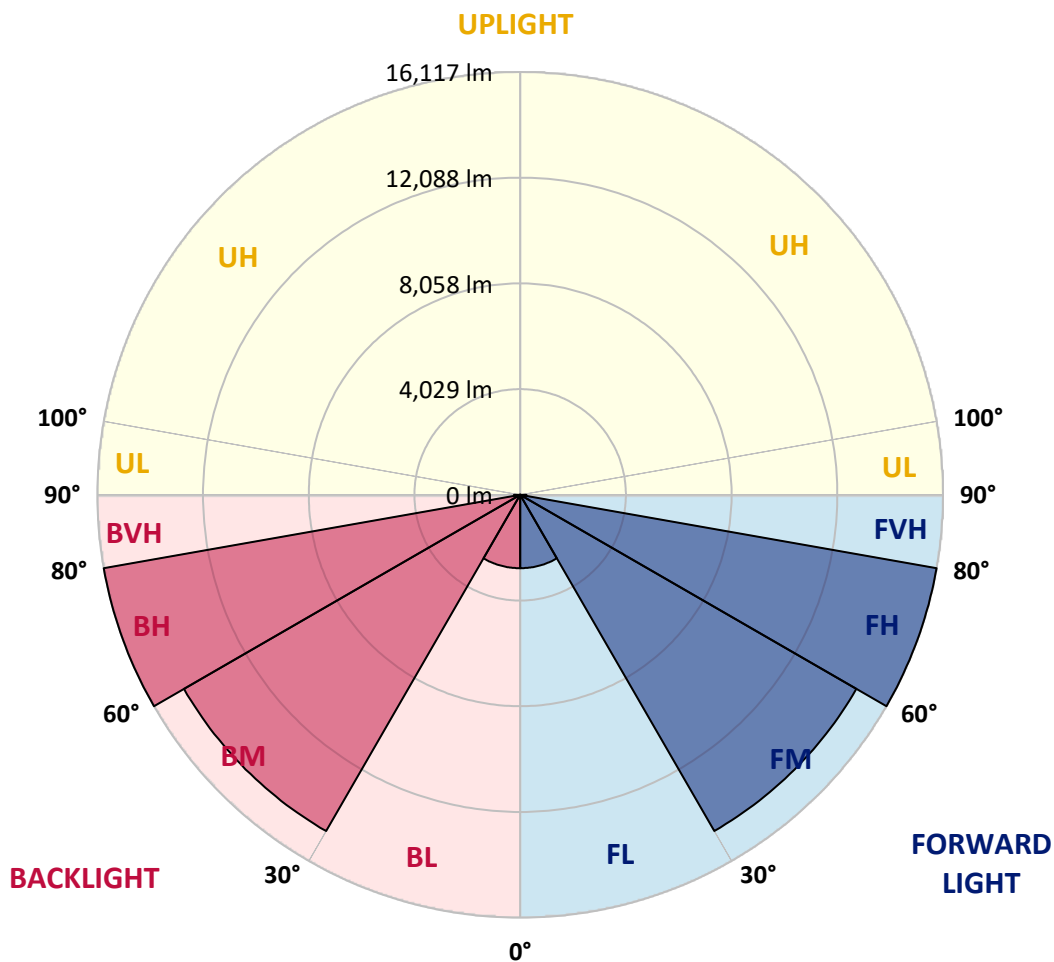
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2797.4	4.1			
FM	(30°-60°)	14796.9	21.8			
FH	(60°-80°)	16116.9	23.7			G5
FVH	(80°-90°)	236.8	0.3			G3/500
BL	(0°-30°)	2797.4	4.1	B4/5000		
BM	(30°-60°)	14796.9	21.8	B5		
BH	(60°-80°)	16116.9	23.7	B5		G5
BVH	(80°-90°)	236.8	0.3			G3/500
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°	6766.1	6766.1	6766.1	6766.1	6766.1	6766.1	6766.1	6766.1	6766.1	6766.1	6766.1
2.5°	6741.1	6747.4	6747.4	6747.4	6744.3	6744.3	6738.0	6744.3	6741.1	6731.8	6734.9
5°	6684.9	6691.2	6691.2	6688.1	6697.4	6694.3	6684.9	6691.2	6688.1	6681.8	6684.9
7.5°	6603.8	6613.1	6613.1	6610.0	6619.4	6616.3	6610.0	6613.1	6613.1	6603.8	6603.8
10°	6513.2	6519.5	6519.5	6516.3	6531.9	6531.9	6528.8	6538.2	6541.3	6531.9	6525.7
12.5°	6428.9	6438.3	6438.3	6450.8	6466.4	6472.6	6488.2	6500.7	6513.2	6510.1	6497.6
15°	6379.0	6385.2	6397.7	6413.3	6438.3	6460.1	6485.1	6513.2	6538.2	6544.4	6525.7
17.5°	6347.7	6357.1	6375.8	6397.7	6432.0	6469.5	6507.0	6544.4	6578.8	6591.3	6569.4
20°	6338.4	6344.6	6363.3	6400.8	6447.6	6503.8	6556.9	6600.6	6647.5	6663.1	6647.5
22.5°	6357.1	6369.6	6391.4	6435.2	6497.6	6569.4	6631.9	6691.2	6750.5	6778.6	6756.8
25°	6441.4	6453.9	6482.0	6538.2	6606.9	6681.8	6753.6	6822.3	6875.4	6903.5	6887.9
27.5°	6597.5	6613.1	6647.5	6703.7	6778.6	6859.8	6937.9	6994.1	7037.8	7047.1	7028.4
30°	6831.7	6866.0	6906.6	6969.1	7056.5	7125.2	7203.3	7253.2	7306.3	7306.3	7290.7
32.5°	7197.0	7231.4	7275.1	7334.4	7403.1	7478.0	7546.7	7590.4	7646.6	7649.7	7612.3
35°	7743.4	7759.0	7796.5	7834.0	7896.4	7962.0	8021.3	8049.4	8096.2	8099.4	8065.0
37.5°	8464.7	8467.8	8492.8	8505.3	8561.5	8633.3	8689.5	8708.2	8751.9	8745.7	8711.3
40°	9304.6	9320.2	9329.6	9348.3	9407.6	9476.3	9535.6	9545.0	9591.8	9582.5	9538.8
42.5°	10275.6	10281.9	10335.0	10363.1	10419.3	10453.6	10528.5	10537.9	10594.1	10569.1	10519.2
45°	11365.3	11421.5	11471.5	11527.7	11587.0	11627.6	11686.9	11674.4	11711.9	11674.4	11646.3
47.5°	12511.2	12551.8	12664.2	12751.7	12848.5	12882.8	12967.1	12929.6	12967.1	12914.0	12904.7
50°	13772.7	13844.5	13941.3	14041.2	14144.2	14200.4	14309.7	14262.9	14312.8	14262.9	14234.8
52.5°	15015.4	15034.1	15246.4	15393.2	15536.8	15602.4	15667.9	15646.1	15649.2	15646.1	15618.0
55°	16195.6	16239.3	16451.6	16651.5	16901.3	17085.5	17197.9	17185.4	17157.3	17129.2	17082.4
57.5°	17525.7	17569.4	17813.0	18059.6	18343.8	18606.1	18834.0	19068.2	19158.7	19183.7	19080.7
60°	19324.2	19321.1	19645.8	19945.5	20351.4	20741.7	21241.3	21750.3	22334.1	22605.8	22246.7
62.5°	21153.9	21228.8	21697.2	22228.0	23064.8	23879.7	24800.8	25706.3	26630.5	27383.0	26583.6
65°	20935.3	21222.6	21918.9	23121.0	24666.5	26502.5	28488.3	30589.6	32488.0	33793.1	32328.8
67.5°	18143.9	18553.0	19261.7	20723.0	22655.7	25303.5	28638.2	32794.0	37624.3	39959.8	37065.4
70°	13151.3	13613.4	14356.5	15783.5	17697.5	20214.1	23836.0	28825.5	35220.1	37574.3	34386.4
72.5°	6544.4	6794.2	7253.2	8161.8	9610.6	11652.6	14937.3	19733.2	25390.9	27551.6	24638.4
75°	2223.1	2338.6	2416.7	2713.3	3172.3	3974.7	5607.7	8627.0	13160.7	15777.2	12973.3
77.5°	1283.3	1286.4	1339.5	1392.6	1470.6	1558.1	1776.6	2332.4	4034.1	5729.5	4174.6
80°	830.5	827.4	871.1	911.7	964.8	1008.5	1021.0	1080.3	1245.8	1476.9	1320.8
82.5°	430.9	484.0	580.8	633.8	733.8	752.5	727.5	705.7	746.2	774.3	793.1
85°	237.3	206.1	309.1	399.7	443.4	449.6	449.6	424.6	440.3	430.9	468.4
87.5°	109.3	99.9	121.8	196.7	209.2	178.0	187.3	165.5	118.6	115.5	131.1
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°	6766.1	6766.1	6766.1	6766.1	6766.1	6766.1	6766.1	6766.1
2.5°	6734.9	6738.0	6738.0	6747.4	6750.5	6756.8	6763.0	6766.1
5°	6681.8	6691.2	6684.9	6694.3	6694.3	6700.6	6700.6	6703.7
7.5°	6603.8	6613.1	6613.1	6613.1	6610.0	6619.4	6619.4	6619.4
10°	6522.6	6528.8	6525.7	6519.5	6513.2	6522.6	6519.5	6516.3
12.5°	6497.6	6482.0	6469.5	6463.3	6450.8	6453.9	6444.5	6444.5
15°	6513.2	6485.1	6463.3	6453.9	6441.4	6435.2	6428.9	6432.0
17.5°	6553.8	6519.5	6491.4	6475.7	6460.1	6450.8	6438.3	6441.4
20°	6625.6	6585.0	6544.4	6513.2	6485.1	6469.5	6460.1	6457.0
22.5°	6731.8	6672.5	6613.1	6566.3	6528.8	6507.0	6497.6	6491.4
25°	6853.5	6788.0	6719.3	6666.2	6628.7	6600.6	6581.9	6581.9
27.5°	7006.5	6953.5	6891.0	6828.6	6794.2	6766.1	6753.6	6747.4
30°	7262.6	7212.6	7162.7	7103.3	7059.6	7031.5	7009.7	6990.9
32.5°	7590.4	7549.8	7509.2	7465.5	7424.9	7387.5	7353.1	7337.5
35°	8052.5	8021.3	7993.2	7943.2	7927.6	7905.8	7887.0	7871.4
37.5°	8689.5	8677.0	8677.0	8623.9	8611.4	8602.1	8583.3	8586.5
40°	9526.3	9538.8	9523.2	9504.4	9495.1	9470.1	9470.1	9491.9
42.5°	10516.1	10525.4	10559.8	10528.5	10562.9	10531.7	10512.9	10528.5
45°	11665.1	11699.4	11768.1	11736.9	11758.8	11705.7	11640.1	11643.2
47.5°	12954.6	12985.8	13013.9	12992.1	12995.2	12907.8	12820.4	12798.5
50°	14294.1	14306.6	14322.2	14291.0	14297.2	14200.4	14100.5	14103.6
52.5°	15618.0	15677.3	15739.7	15655.4	15636.7	15527.4	15386.9	15330.7
55°	17132.3	17216.6	17144.8	16998.0	16851.3	16704.5	16520.3	16489.1
57.5°	18999.5	18855.8	18631.0	18353.1	18150.2	17944.1	17756.8	17678.7
60°	21597.3	21057.1	20651.2	20239.0	19979.9	19727.0	19480.3	19442.8
62.5°	25269.1	24335.6	23526.9	22674.5	21978.2	21434.9	21000.9	20879.1
65°	29871.5	27664.0	25750.0	23964.0	22412.2	21241.3	20504.4	20179.7
67.5°	31851.0	27492.3	24210.7	21675.3	19645.8	18228.3	17432.1	17035.5
70°	27988.7	22799.4	19230.5	16692.1	14843.6	13332.4	12611.2	12186.5
72.5°	19255.5	14503.3	11468.4	9360.8	7883.9	6619.4	6119.8	6082.3
75°	8645.8	5726.4	3946.6	3041.2	2560.3	2226.2	2123.2	2045.1
77.5°	2419.8	1789.1	1595.5	1492.5	1392.6	1277.0	1233.3	1242.7
80°	1177.1	1111.6	1067.8	1002.3	911.7	814.9	771.2	790.0
82.5°	780.6	771.2	799.3	752.5	621.3	527.7	443.4	405.9
85°	474.6	480.8	490.2	493.3	418.4	293.5	199.8	224.8
87.5°	187.3	215.4	234.2	243.5	227.9	140.5	112.4	115.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)