

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: P317694

Luminaire Tested: **GAN-SA0C-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317694
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59861 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - 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: 24 FT

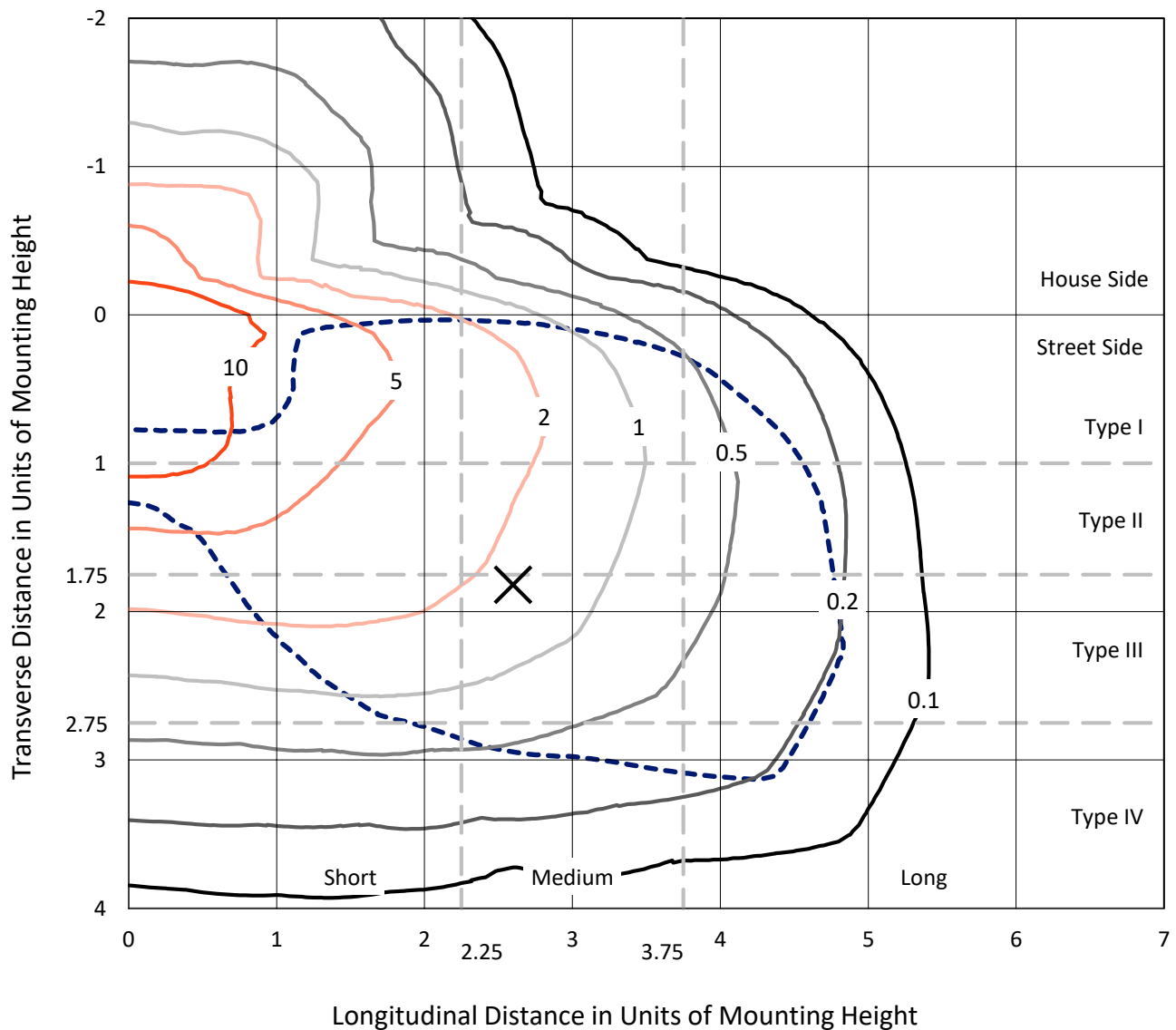


REPORT NUMBER: P317694

CATALOG NUMBER: GAN-SA0C-727-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

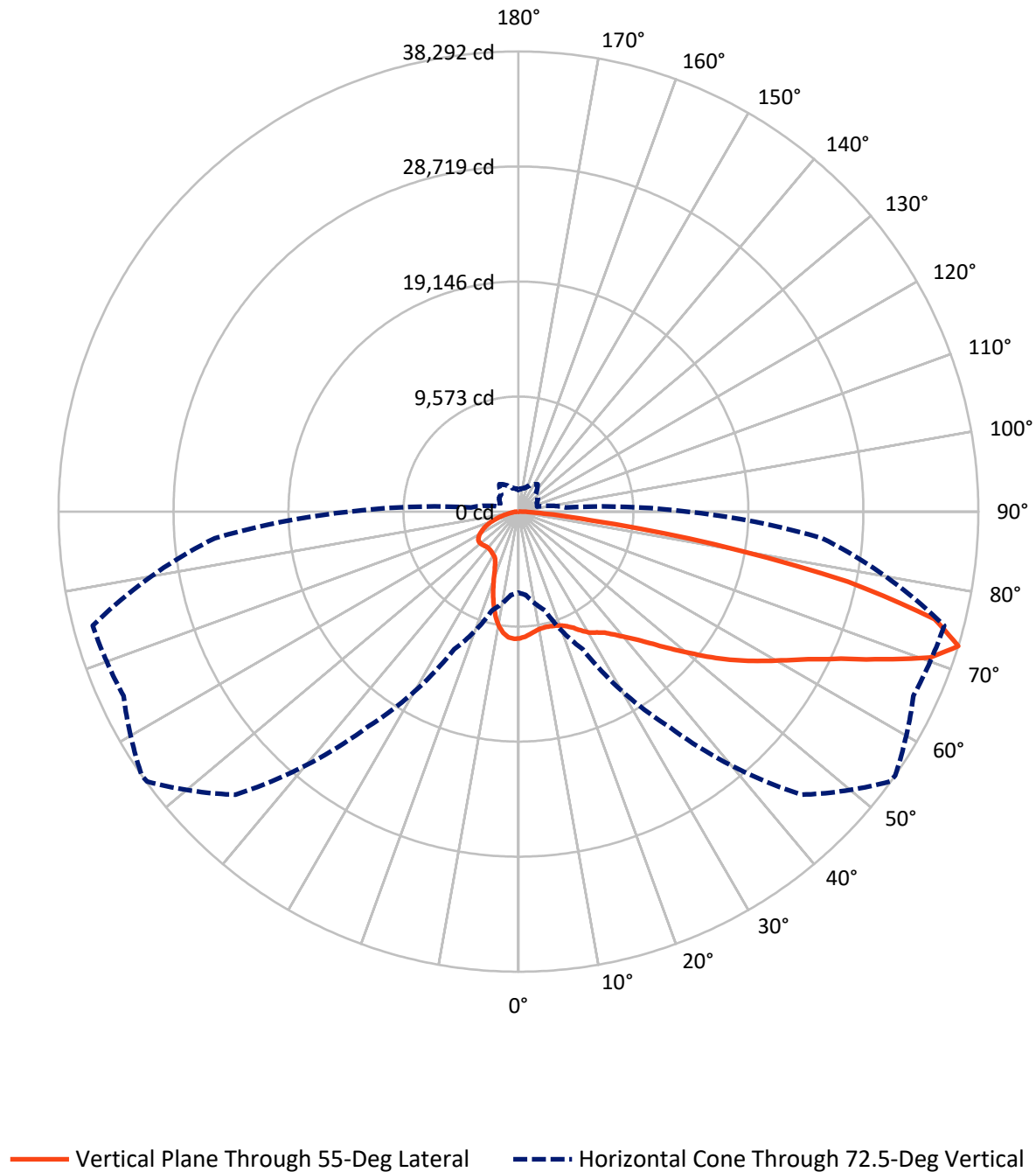
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc
 Type IV - Medium - N/A

REPORT NUMBER: P317694
CATALOG NUMBER: GAN-SA0C-727-U-T3R

Luminous Intensity Polar Plot



REPORT NUMBER: P317694

CATALOG NUMBER: GAN-SA0C-727-U-T3R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11126.2	0.0	11126.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	48734.8	0.0	48734.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	59861.0	0.0	59861.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	955.4	1.6
10°-20°	2543.6	4.2
20°-30°	4193.8	7.0
30°-40°	6203.6	10.4
40°-50°	8659.0	14.5
50°-60°	11274.3	18.8
60°-70°	13855.7	23.1
70°-80°	10861.2	18.1
80°-90°	1314.4	2.2
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°	59861.0	100.0
0°-180°	59861.0	100.0

Coefficient of Utilization



REPORT NUMBER: P317694

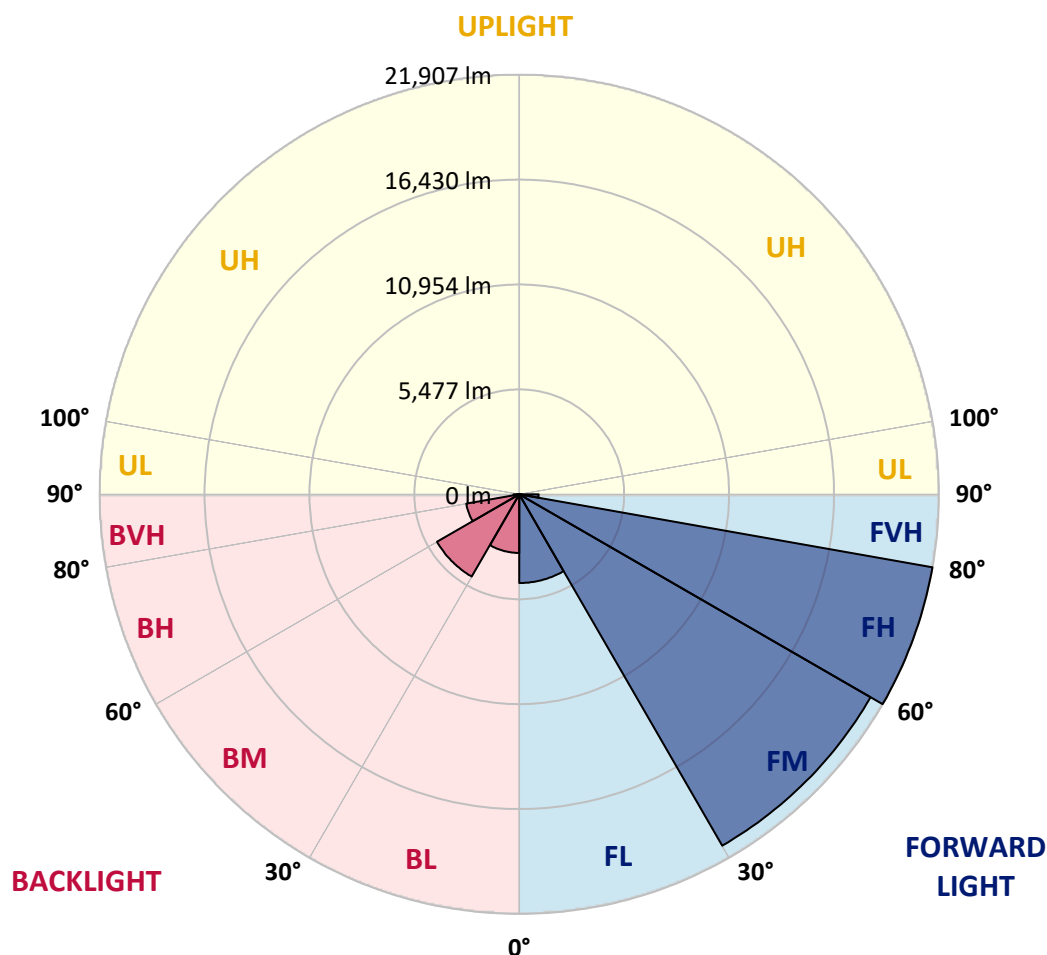
CATALOG NUMBER: GAN-SA0C-727-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4631.5	7.7			
FM	(30°-60°)	21180.0	35.4			
FH	(60°-80°)	21907.1	36.6			G5
FVH	(80°-90°)	1016.2	1.7			G5
BL	(0°-30°)	3061.3	5.1	B4/5000		
BM	(30°-60°)	4956.9	8.3	B3/5000		
BH	(60°-80°)	2809.9	4.7	B4/5000		G4/5000
BVH	(80°-90°)	298.2	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium





REPORT NUMBER: P317694

CATALOG NUMBER: GAN-SA0C-727-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10558.2	10558.2	10558.2	10558.2	10558.2	10558.2	10558.2	10558.2	10558.2	10558.2	10558.2
2.5°	10214.5	10190.2	10220.5	10263.0	10309.5	10372.2	10408.6	10424.7	10487.4	10511.7	10564.3
5°	9741.4	9729.2	9779.8	9852.6	9955.7	10101.3	10218.5	10240.8	10406.6	10523.8	10631.0
7.5°	9397.6	9397.6	9456.3	9543.2	9658.5	9854.6	10020.4	10050.7	10331.7	10584.5	10782.6
10°	9124.7	9134.8	9203.5	9306.7	9442.1	9650.4	9870.8	9905.1	10311.5	10726.0	11041.4
12.5°	8942.7	8967.0	9029.7	9122.7	9290.5	9543.2	9822.2	9868.7	10354.0	10928.2	11352.8
15°	9058.0	9098.4	9104.5	9142.9	9235.9	9510.9	9850.5	9899.1	10445.0	11134.4	11706.6
17.5°	9563.4	9577.6	9514.9	9434.0	9389.6	9565.5	9935.5	9986.0	10554.1	11338.6	12046.3
20°	10331.7	10323.7	10188.2	9969.8	9743.4	9771.7	10075.0	10127.5	10701.7	11518.6	12386.0
22.5°	11302.2	11273.9	11065.7	10663.3	10277.2	10115.4	10319.6	10364.1	10924.2	11775.4	12749.9
25°	12479.0	12416.3	12141.3	11601.5	11033.3	10616.8	10687.6	10730.1	11247.6	12062.5	13083.5
27.5°	13720.4	13657.7	13307.9	12654.9	11898.7	11249.7	11195.1	11231.5	11615.6	12274.8	13330.2
30°	15018.4	14951.7	14632.3	13900.3	12816.6	11904.8	11668.2	11682.4	11874.4	12390.0	13532.4
32.5°	16322.5	16259.9	15902.0	15052.8	13813.4	12608.4	12009.9	11991.7	12030.1	12509.3	13760.8
35°	17644.8	17669.1	17250.6	16310.4	14917.3	13390.8	12414.3	12375.9	12290.9	12753.9	14084.3
37.5°	19060.1	19044.0	18502.1	17519.5	16071.8	14240.0	12994.5	12988.5	12695.3	13216.9	14591.8
40°	20006.4	20016.5	19686.9	18756.9	17238.4	15180.2	13738.6	13724.4	13340.3	13910.4	15257.0
42.5°	20376.4	20443.1	20528.0	19937.6	18459.7	16270.0	14626.2	14606.0	14240.0	14905.2	16039.5
45°	20402.7	20536.1	21061.8	20987.0	19697.0	17517.5	15760.5	15703.8	15441.0	16227.5	16973.6
47.5°	20176.2	20313.7	21187.2	21611.7	20803.0	18833.7	17086.8	17042.3	16815.9	17881.4	17984.5
50°	19680.9	19812.3	20928.4	21917.0	21712.8	20099.4	18615.3	18498.1	18376.8	19792.1	19141.0
52.5°	18752.8	19005.6	20582.6	21989.8	22256.7	21223.5	20222.7	20145.9	20212.6	21807.9	20299.6
55°	16555.1	16838.1	19691.0	21929.2	22659.1	22167.8	21830.1	21826.1	22171.8	23922.7	21543.0
57.5°	15323.7	15523.9	17875.3	21826.1	23136.2	23105.9	23421.3	23459.7	24133.0	26225.6	22845.1
60°	14628.2	14838.5	16955.4	21443.9	23876.2	24319.0	25044.9	25121.7	26126.6	28775.2	24412.0
62.5°	13995.4	14225.9	16385.2	20665.5	24747.7	26053.8	26989.9	27058.7	28237.4	31395.6	25926.4
65°	12913.7	13174.5	15550.2	20154.0	25540.2	28316.3	29462.7	29509.2	30661.6	34141.3	27084.9
67.5°	11385.1	11623.7	13975.1	19023.8	26126.6	31064.0	32750.2	32776.5	33065.6	36080.2	27677.3
70°	9599.8	9690.8	11730.9	16690.5	25433.1	33633.8	36353.2	36359.2	35257.3	37321.7	27580.3
72.5°	6745.0	6959.3	8516.1	12634.7	21856.4	33320.4	38223.4	38292.1	36276.3	36694.9	25376.5
75°	4136.7	4363.2	5341.8	7656.8	13866.0	26205.4	35316.0	35793.1	34365.7	32717.9	20730.2
77.5°	2765.9	2850.8	3485.7	4464.3	6281.9	15077.1	27151.7	28049.4	28548.8	23860.1	13257.4
80°	1542.7	1704.4	2311.0	2774.0	2794.2	5990.8	16280.1	16490.4	15883.8	9500.8	4090.2
82.5°	816.8	905.8	1542.7	1629.6	1524.5	2005.7	6067.6	6073.7	5074.9	2547.6	1215.1
85°	632.8	707.7	1057.4	994.8	778.4	889.6	2001.6	2110.8	1726.7	1043.3	396.3
87.5°	315.4	392.2	717.8	630.8	305.3	254.8	715.7	764.3	681.4	408.4	143.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P317694

CATALOG NUMBER: GAN-SA0C-727-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10558.2	10558.2	10558.2	10558.2	10558.2	10558.2	10558.2	10558.2	10558.2	10558.2	10558.2
2.5°	10584.5	10602.7	10624.9	10600.7	10592.6	10560.2	10505.6	10493.5	10465.2	10467.2	10483.4
5°	10677.5	10707.8	10695.7	10602.7	10491.5	10335.8	10174.0	10036.6	9945.6	9939.5	9933.4
7.5°	10855.4	10875.6	10780.6	10515.7	10204.4	9844.5	9504.8	9207.6	9027.6	8983.2	8973.0
10°	11134.4	11130.4	10869.6	10335.8	9715.1	9072.1	8526.2	8113.8	7873.2	7802.4	7784.2
12.5°	11445.8	11399.3	10899.9	10008.2	9023.6	8132.0	7440.5	6981.5	6730.8	6649.9	6629.7
15°	11767.3	11652.0	10825.1	9519.0	8174.4	7119.0	6393.1	5968.6	5833.1	5788.6	5780.5
17.5°	12066.5	11844.1	10610.8	8855.8	7205.9	6110.1	5544.0	5374.1	5406.5	5465.1	5467.1
20°	12359.7	11973.5	10267.0	8018.7	6184.9	5279.1	5087.0	5212.4	5366.0	5485.3	5501.5
22.5°	12648.8	12064.5	9824.3	7052.3	5271.0	4812.0	4947.5	5176.0	5351.9	5481.3	5503.5
25°	12891.4	12086.7	9213.7	6021.1	4636.1	4636.1	4880.8	5097.1	5271.0	5398.4	5420.6
27.5°	12980.4	11937.1	8352.3	5066.8	4316.7	4555.3	4787.8	4967.7	5115.3	5250.8	5275.1
30°	13014.8	11660.1	7357.6	4300.5	4185.3	4468.3	4662.4	4816.1	4955.6	5083.0	5105.2
32.5°	13020.8	11326.5	6302.2	3865.8	4094.3	4377.3	4506.7	4642.2	4791.8	4842.4	4850.5
35°	13059.2	10932.2	5190.1	3643.4	4009.4	4292.4	4395.5	4492.6	4250.0	4268.2	4284.3
37.5°	13170.4	10542.0	4260.1	3518.0	3954.8	4247.9	4371.3	4019.5	3829.4	3784.9	3778.9
40°	13378.7	10125.5	3570.6	3417.0	3934.6	4270.2	4215.6	3752.6	3425.0	3180.4	3144.0
42.5°	13667.8	9676.7	3129.9	3350.2	3948.7	4377.3	3999.3	3495.8	2951.9	2794.2	2774.0
45°	13993.3	9205.6	2891.3	3303.7	3997.2	4460.2	3954.8	3154.1	2731.5	2612.3	2602.1
47.5°	14308.8	8629.3	2767.9	3283.5	4064.0	4393.5	3766.7	3049.0	2626.4	2563.7	2569.8
50°	14670.7	8109.7	2693.1	3261.3	4122.6	4351.1	3554.4	2994.4	2586.0	2662.8	2743.7
52.5°	14976.0	7571.9	2626.4	3216.8	4144.8	4276.2	3499.9	3004.5	2586.0	2733.6	2810.4
55°	15337.9	7165.5	2549.6	3123.8	4102.4	4064.0	3461.4	3065.2	2616.3	2523.3	2531.4
57.5°	15804.9	7032.1	2464.7	2978.2	3960.8	3754.6	3443.2	3123.8	2598.1	2539.5	2559.7
60°	16451.9	7173.6	2430.3	2788.2	3740.5	3512.0	3445.3	3093.5	2470.7	2369.6	2371.7
62.5°	17068.6	7331.3	2428.3	2668.9	3469.5	3295.6	3398.8	2994.4	2406.0	2347.4	2369.6
65°	17270.8	7171.6	2331.2	2535.4	3164.2	3036.8	3313.8	2889.2	2357.5	2268.5	2264.5
67.5°	16999.9	6676.2	2135.1	2319.1	2814.4	2735.6	3202.6	2763.9	2280.7	2207.9	2195.7
70°	16195.2	5570.2	1892.5	2034.0	2416.1	2395.9	3026.7	2618.3	2177.6	2114.9	2062.3
72.5°	14029.7	3968.9	1595.3	1692.3	1967.3	2032.0	2784.1	2428.3	2032.0	1896.5	1815.6
75°	11522.6	2937.8	1310.2	1330.4	1494.2	1670.1	2450.5	2205.9	1860.1	1629.6	1566.9
77.5°	7056.3	1797.4	1043.3	1051.4	1071.6	1332.4	2017.8	1957.2	1641.8	1358.7	1314.2
80°	2284.7	980.6	754.2	792.6	731.9	976.6	1560.9	1666.0	1409.2	1136.3	1087.8
82.5°	869.4	572.2	509.5	535.8	507.5	655.1	1138.3	1334.4	1154.5	934.1	760.2
85°	420.5	323.5	301.3	337.7	313.4	335.6	727.9	982.6	875.5	608.6	566.1
87.5°	149.6	143.6	115.2	155.7	133.4	119.3	222.4	495.4	578.3	418.5	374.0
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)