

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: P317374

Luminaire Tested: **GAN-SA0C-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317374
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60996 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
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



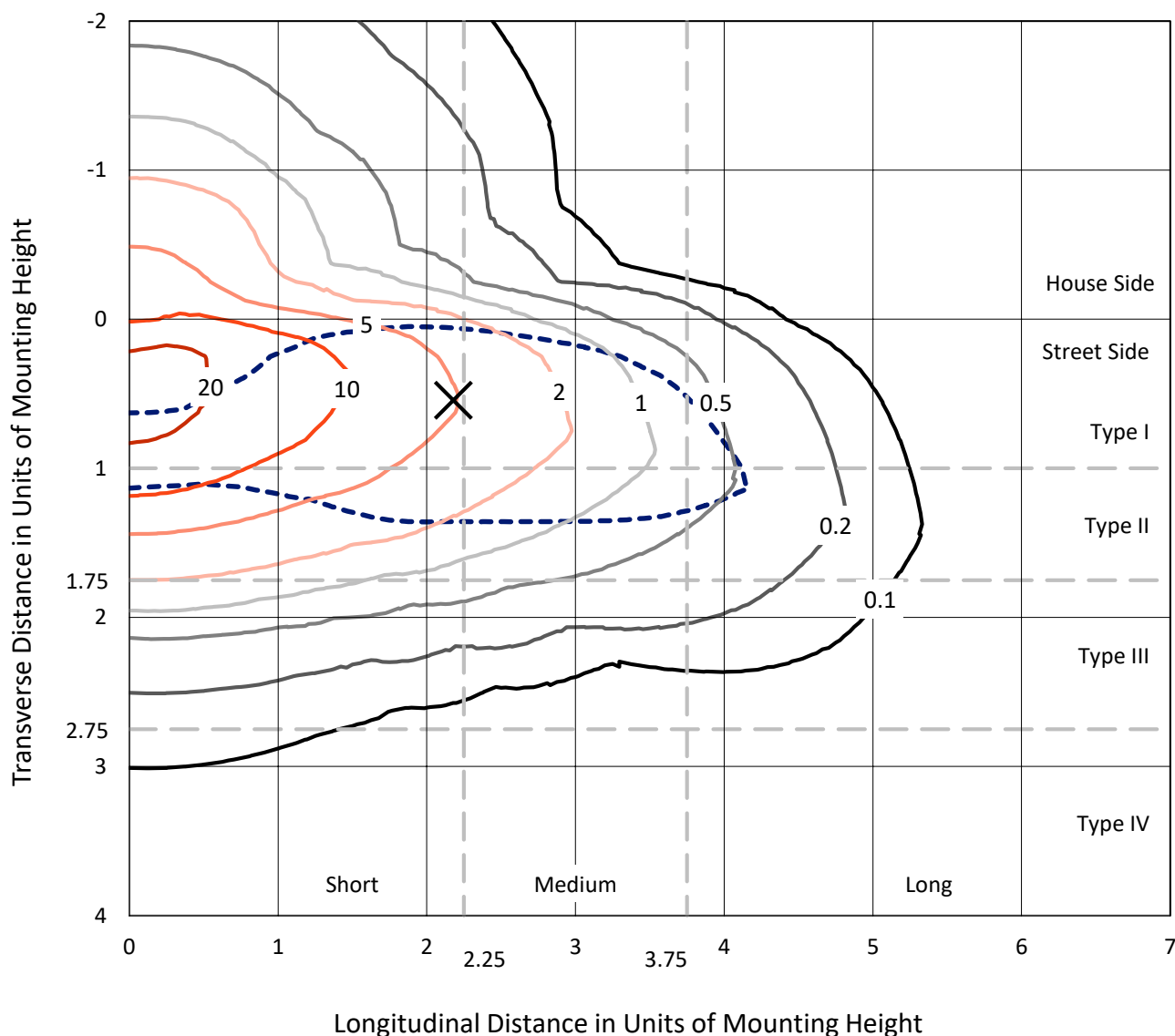
REPORT NUMBER: P317374

CATALOG NUMBER: GAN-SA0C-727-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

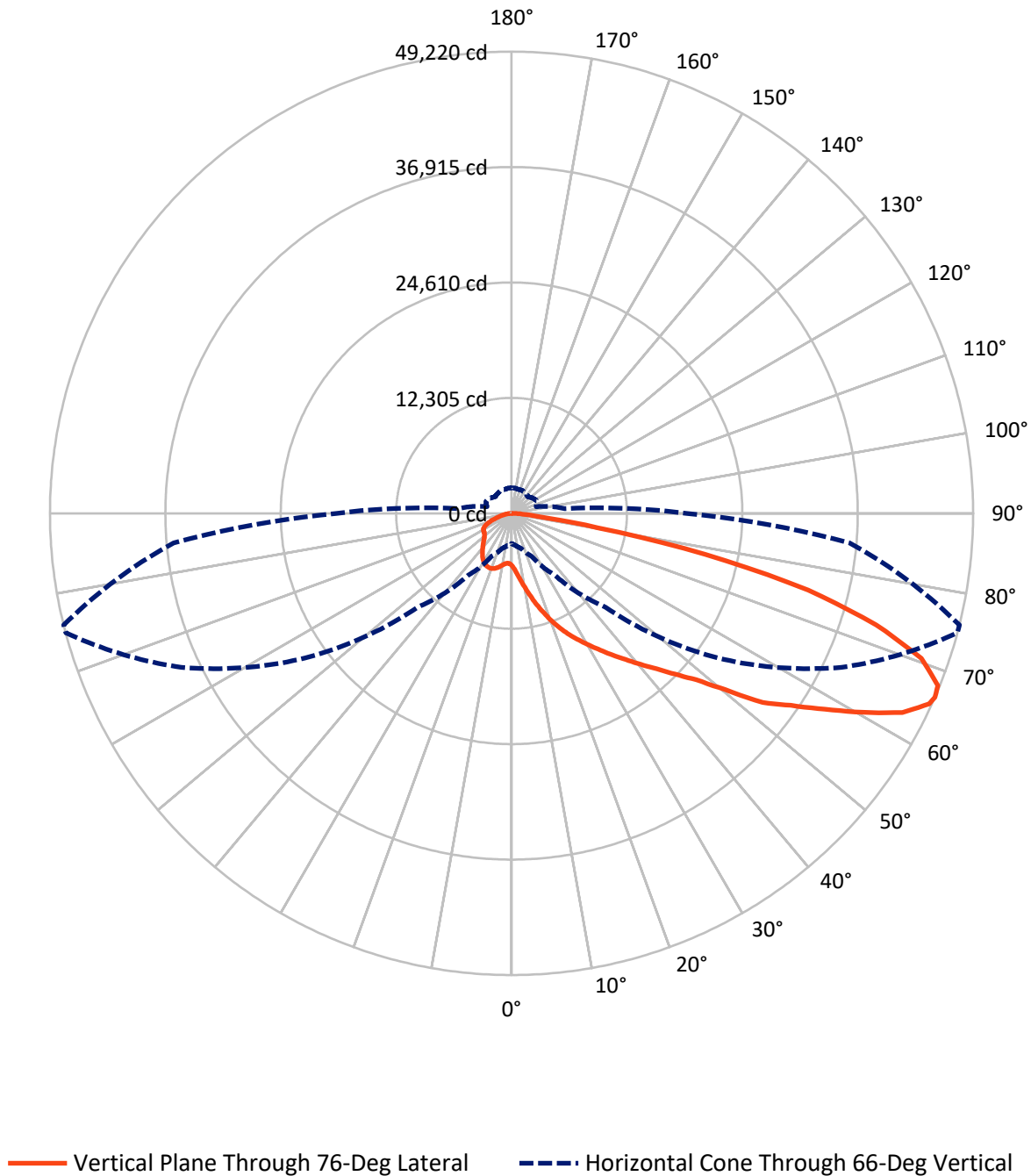
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.6 fc
 Type II - Short - N/A

REPORT NUMBER: P317374
CATALOG NUMBER: GAN-SA0C-727-U-T2R

Luminous Intensity Polar Plot



REPORT NUMBER: P317374

CATALOG NUMBER: GAN-SA0C-727-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10263.5	0.0	10263.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	50732.5	0.0	50732.5
	% Fixture	83.2	0.0	83.2
Total	Lumens	60996.0	0.0	60996.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	673.6	1.1
10°-20°	2660.0	4.4
20°-30°	5169.0	8.5
30°-40°	8437.0	13.8
40°-50°	11527.0	18.9
50°-60°	13426.6	22.0
60°-70°	12037.2	19.7
70°-80°	6083.1	10.0
80°-90°	982.3	1.6
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°	60996.0	100.0
0°-180°	60996.0	100.0

Coefficient of Utilization



REPORT NUMBER: P317374

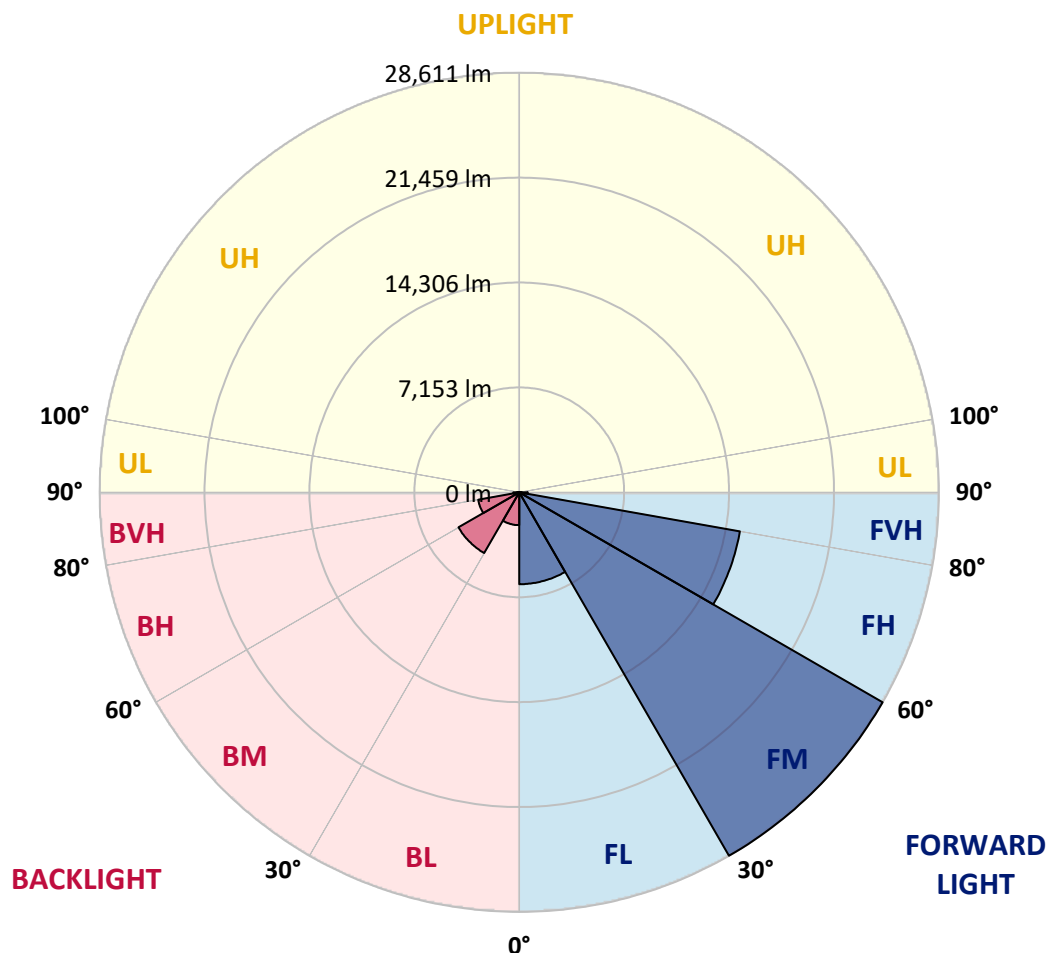
CATALOG NUMBER: GAN-SA0C-727-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6264.1	10.3			
FM	(30°-60°)	28611.4	46.9			
FH	(60°-80°)	15276.9	25.0			G5
FVH	(80°-90°)	580.1	1.0			G4/750
BL	(0°-30°)	2238.5	3.7	B3/2500		
BM	(30°-60°)	4779.3	7.8	B3/5000		
BH	(60°-80°)	2843.5	4.7	B4/5000		G4/5000
BVH	(80°-90°)	402.2	0.7			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 II Short



REPORT NUMBER: P317374

CATALOG NUMBER: GAN-SA0C-727-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5570.3	5570.3	5570.3	5570.3	5570.3	5570.3	5570.3	5570.3	5570.3	5570.3	5570.3
2.5°	7394.6	7282.8	7272.5	7108.9	7071.6	6758.9	6529.1	6288.9	6015.5	5961.7	5746.3
5°	9498.5	9488.2	9345.3	9078.2	8869.0	8334.8	7806.7	7247.6	6634.7	6535.3	6050.7
7.5°	11391.2	11374.6	11264.9	10977.0	10674.7	10018.3	9264.5	8407.2	7413.3	7266.3	6462.8
10°	12828.3	12822.1	12784.8	12573.6	12316.8	11687.3	10854.9	9684.9	8318.2	8117.3	6978.4
12.5°	13938.2	13950.6	13975.5	13900.9	13778.8	13242.4	12389.3	11039.2	9283.2	9084.4	7552.0
15°	14689.9	14727.2	14855.5	14961.1	15025.3	14696.1	13869.9	12424.5	10364.1	10126.0	8187.7
17.5°	15068.8	15110.2	15331.8	15650.7	15944.8	15911.6	15255.2	13745.6	11401.5	11171.7	8871.1
20°	15396.0	15427.1	15675.6	16058.6	16578.4	16808.3	16439.7	15017.1	12538.4	12265.0	9595.8
22.5°	16344.4	16383.8	16458.3	16675.7	17135.4	17557.9	17379.8	16220.2	13580.0	13325.3	10283.3
25°	18174.9	18222.6	18061.1	17876.8	17963.7	18257.8	18290.9	17317.7	14636.0	14348.2	11022.6
27.5°	20380.3	20448.6	20173.2	19699.0	19284.9	19171.0	19131.6	18216.4	15644.5	15311.1	11753.6
30°	22540.1	22658.1	22299.9	21684.9	20924.9	20390.6	19995.1	19096.4	16638.5	16319.6	12443.1
32.5°	24650.2	24602.5	24082.8	23482.3	22591.9	21923.0	20966.3	20040.7	17756.7	17390.1	13128.5
35°	26095.6	26112.1	25629.6	24917.3	24068.3	23554.8	22266.7	21059.5	18897.6	18560.1	13907.1
37.5°	27325.6	27249.0	26702.3	26037.6	25306.6	25087.1	23788.7	22181.8	20133.9	19765.3	14735.4
40°	27735.6	27646.5	27288.3	26810.0	26223.9	26205.3	25468.1	23453.3	21531.6	21167.2	15669.3
42.5°	27487.1	27373.2	27226.2	27095.7	26915.6	26998.4	27046.0	24944.2	23068.1	22660.2	16750.3
45°	26569.8	26397.9	26501.4	26785.1	27176.5	27644.5	28470.7	26594.6	24788.9	24447.2	18019.6
47.5°	25159.6	25004.3	25327.3	25934.0	26998.4	28182.9	29818.8	28416.9	26843.1	26503.5	19827.4
50°	23175.8	23221.4	23683.1	24786.8	26395.8	28431.4	31479.5	30829.3	29829.1	29512.3	22293.7
52.5°	19920.6	19928.9	21229.3	23041.2	25327.3	28303.0	32401.0	33912.6	33906.4	33523.3	24641.9
55°	16897.3	17081.6	18110.8	20519.0	23596.2	27789.4	33045.0	35411.9	36583.9	36134.5	26830.7
57.5°	13944.4	14052.1	15027.4	17446.0	21125.8	26420.7	33705.6	37211.3	39669.3	39385.6	29551.6
60°	10585.7	10751.3	11759.8	13994.1	17965.8	23991.7	33767.7	39089.5	43357.3	43071.5	32589.4
62.5°	6870.7	7156.5	8100.8	10194.3	14143.2	20498.3	32326.4	40317.5	46852.7	46751.3	35285.5
65°	3948.9	4164.3	4820.7	6435.9	9757.4	16112.5	28899.4	39845.3	49004.2	48946.3	36294.0
66°	3226.2	3360.8	3864.0	5029.8	8051.1	14149.4	26907.3	38849.3	49217.5	49219.6	36178.0
67.5°	2580.2	2640.2	2865.9	3601.0	5941.0	11215.2	23347.7	36652.2	48952.5	49024.9	35430.5
70°	2134.9	2166.0	2236.4	2414.5	3242.8	6763.1	16572.2	30943.2	46291.6	46347.5	32512.8
72.5°	1915.4	1934.1	1961.0	1985.8	2288.2	3779.1	10121.8	24753.7	40586.6	40659.1	28066.9
75°	1735.3	1745.6	1741.5	1743.6	1919.6	2408.3	5230.7	18481.4	32817.2	32672.3	21500.6
77.5°	1524.1	1534.4	1513.7	1517.9	1698.0	1851.2	2602.9	12938.0	22146.6	21123.7	12113.9
80°	1288.0	1296.3	1288.0	1302.5	1478.5	1397.8	1513.7	7278.7	9792.6	9262.5	4307.2
82.5°	973.3	1008.5	1033.3	1091.3	1217.6	994.0	1012.6	2834.9	2981.9	2839.0	1321.1
85°	426.6	519.8	778.6	834.5	915.3	596.4	664.7	1155.5	1213.5	1176.2	480.4
87.5°	111.8	122.2	385.2	484.6	507.3	269.2	345.8	526.0	555.0	526.0	159.4
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: P317374

CATALOG NUMBER: GAN-SA0C-727-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5570.3	5570.3	5570.3	5570.3	5570.3	5570.3	5570.3	5570.3	5570.3	5570.3	5570.3
2.5°	5632.4	5531.0	5348.7	5187.2	5065.0	4982.2	4899.4	4858.0	4833.1	4808.3	4812.4
5°	5812.6	5607.6	5294.9	5073.3	4949.1	4870.4	4829.0	4812.4	4802.1	4777.2	4777.2
7.5°	6083.9	5794.0	5363.2	5135.5	5038.1	4978.1	4953.2	4944.9	4932.5	4903.5	4907.7
10°	6425.5	6019.7	5506.1	5284.5	5195.5	5129.2	5094.0	5081.6	5058.8	5025.7	5029.8
12.5°	6827.3	6299.2	5694.6	5462.6	5355.0	5265.9	5207.9	5172.7	5133.4	5089.9	5092.0
15°	7266.3	6603.6	5897.5	5622.1	5475.1	5350.8	5257.6	5197.6	5135.5	5081.6	5079.5
17.5°	7711.5	6897.7	6052.8	5709.1	5510.3	5346.7	5220.4	5127.2	5050.6	4984.3	4978.1
20°	8191.9	7162.7	6139.8	5700.8	5444.0	5249.3	5081.6	4965.7	4880.8	4814.5	4804.1
22.5°	8680.6	7411.2	6154.3	5615.9	5297.0	5058.8	4882.8	4754.4	4667.5	4599.1	4574.3
25°	9127.9	7603.8	6094.2	5452.3	5092.0	4835.2	4663.3	4532.9	4462.5	4381.7	4356.9
27.5°	9535.8	7738.4	5974.1	5243.1	4862.1	4609.5	4448.0	4336.1	4259.5	4197.4	4176.7
30°	9902.3	7810.9	5777.4	4994.6	4626.0	4396.2	4259.5	4182.9	4116.6	4038.0	4023.5
32.5°	10250.2	7810.9	5524.8	4723.4	4392.1	4207.8	4127.0	4079.4	4004.8	3928.2	3907.5
35°	10598.1	7763.2	5226.6	4439.7	4176.7	4073.2	4069.0	4013.1	3899.2	3795.7	3768.8
37.5°	10964.6	7665.9	4891.1	4174.6	4000.7	4013.1	4048.3	3924.1	3762.5	3615.5	3576.2
40°	11378.8	7531.3	4543.2	3944.8	3853.7	3986.2	3992.4	3795.7	3480.9	3346.3	3311.1
42.5°	11865.4	7396.7	4220.2	3741.8	3737.7	3905.4	3886.8	3518.2	3329.8	3261.4	3242.8
45°	12505.2	7320.1	3913.7	3549.3	3646.6	3775.0	3706.6	3365.0	3286.3	3246.9	3230.4
47.5°	13513.7	7359.4	3632.1	3396.0	3555.5	3644.5	3371.2	3302.8	3246.9	3199.3	3182.7
50°	14776.9	7336.7	3404.3	3290.4	3451.9	3507.8	3220.0	3222.1	3193.1	3139.3	3114.4
52.5°	15727.3	7158.6	3257.3	3230.4	3360.8	3265.6	3124.8	3143.4	3128.9	3050.2	3023.3
55°	16644.7	7005.3	3182.7	3207.6	3294.6	2963.2	3012.9	3058.5	3044.0	2967.4	2955.0
57.5°	17785.6	6976.3	3137.2	3213.8	3238.6	2812.1	2905.3	2965.3	2955.0	2921.8	2915.6
60°	19183.4	6984.6	3095.8	3224.2	3176.5	2700.3	2803.8	2880.4	2886.6	2880.4	2876.3
62.5°	19951.7	6758.9	2992.2	3195.2	3066.8	2602.9	2698.2	2810.0	2812.1	2824.5	2822.4
65°	19299.4	6083.9	2799.7	3093.7	2882.5	2522.2	2607.1	2729.2	2698.2	2754.1	2754.1
66°	18665.7	5694.6	2704.4	3027.4	2803.8	2491.1	2578.1	2687.8	2648.5	2725.1	2725.1
67.5°	17371.5	5038.1	2532.5	2886.6	2692.0	2447.6	2544.9	2619.5	2565.7	2679.5	2671.3
70°	15006.7	3897.1	2186.7	2567.7	2507.7	2383.4	2499.4	2482.8	2404.1	2578.1	2544.9
72.5°	12652.3	2961.2	1756.0	2149.4	2228.1	2302.7	2435.2	2308.9	2209.5	2331.7	2259.2
75°	9817.4	2226.1	1387.4	1671.1	1882.3	2176.4	2358.6	2108.0	1965.1	1952.7	1913.4
77.5°	5307.3	1528.2	1099.6	1275.6	1495.1	2019.0	2306.8	1892.7	1677.3	1627.6	1596.5
80°	2101.8	994.0	799.3	967.0	1045.7	1791.2	2182.6	1642.1	1383.3	1333.6	1285.9
82.5°	867.6	588.1	515.6	648.1	681.3	1532.4	1958.9	1346.0	1068.5	1478.5	1569.6
85°	372.7	323.0	306.5	335.5	385.2	1074.7	1559.3	1027.1	1153.4	1029.2	817.9
87.5°	111.8	136.7	130.5	128.4	140.8	256.8	830.4	571.5	846.9	321.0	240.2
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)