

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: P318014

Luminaire Tested: **GAN-SA0C-727-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318014
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57455 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

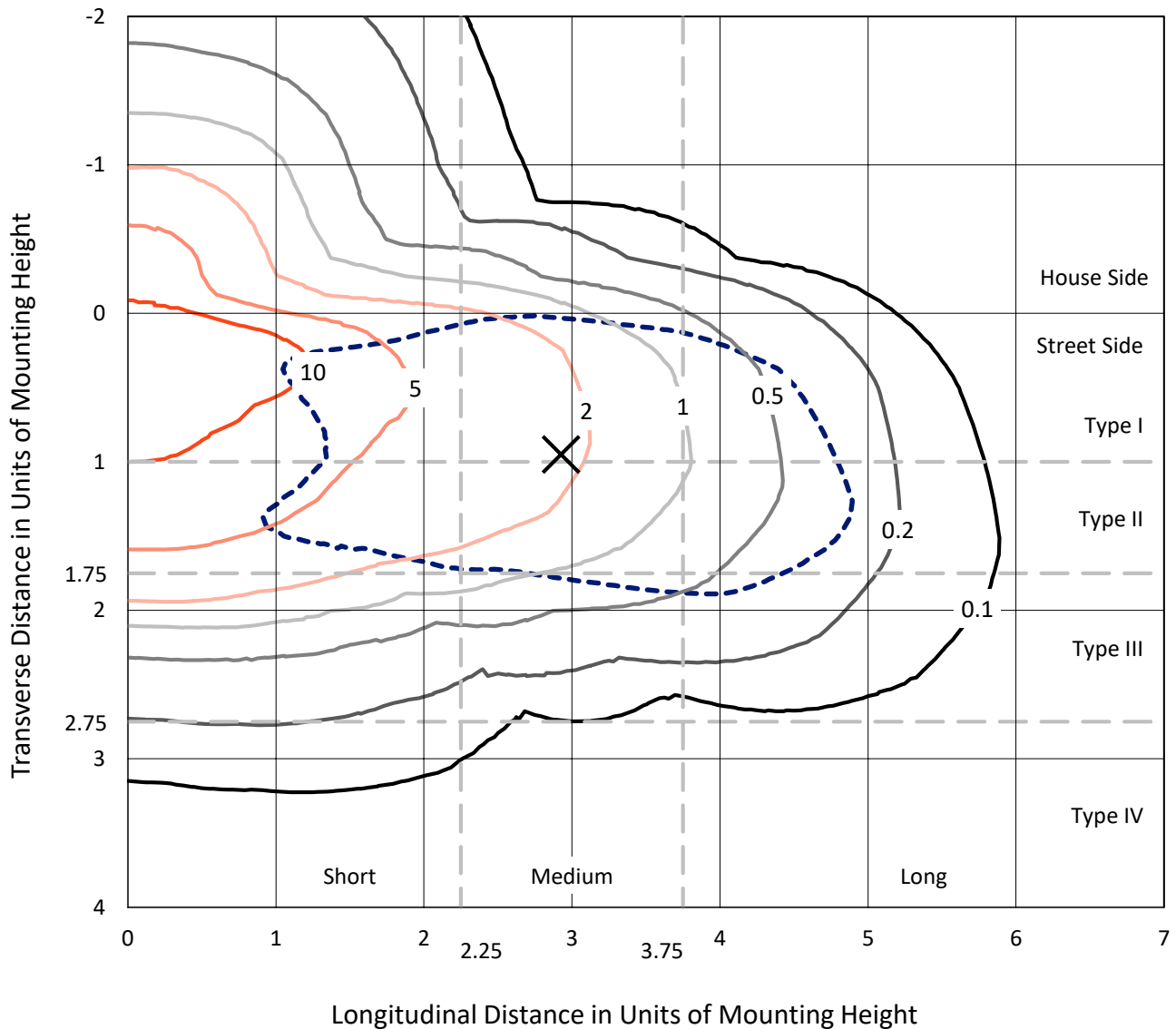
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

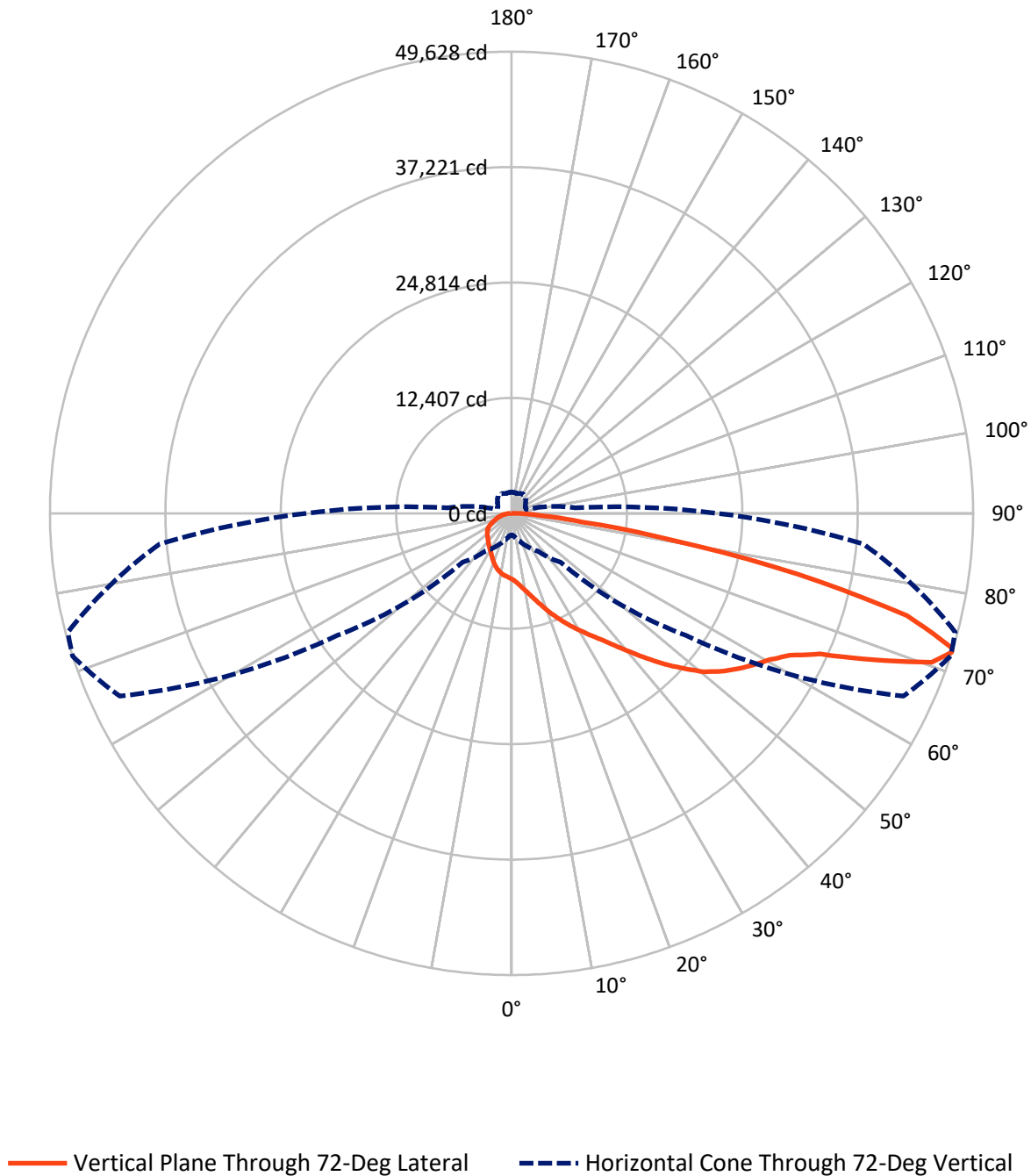
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10658.3	0.0	10658.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	46796.7	0.0	46796.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	57455.0	0.0	57455.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	708.3	1.2
10°-20°	2288.8	4.0
20°-30°	4010.7	7.0
30°-40°	5946.7	10.4
40°-50°	8697.5	15.1
50°-60°	11967.6	20.8
60°-70°	13323.6	23.2
70°-80°	9028.0	15.7
80°-90°	1483.8	2.6
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°	57455.0	100.0
0°-180°	57455.0	100.0

Coefficient of Utilization



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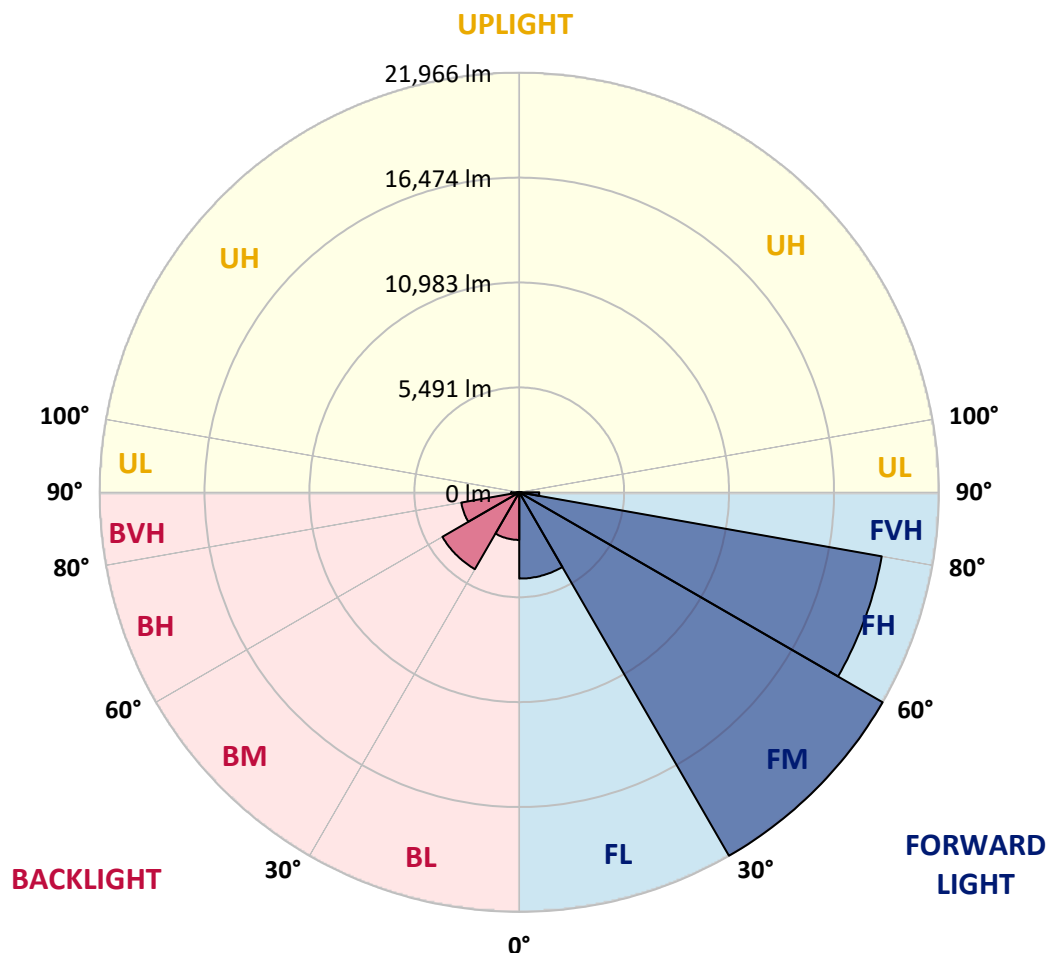
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4516.3	7.9			
FM	(30°-60°)	21965.8	38.2			
FH	(60°-80°)	19268.0	33.5			G5
FVH	(80°-90°)	1046.7	1.8			G5
BL	(0°-30°)	2491.5	4.3	B3/2500		
BM	(30°-60°)	4646.0	8.1	B3/5000		
BH	(60°-80°)	3083.6	5.4	B4/5000		G4/5000
BVH	(80°-90°)	437.2	0.8			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	7068.5	7068.5	7068.5	7068.5	7068.5	7068.5	7068.5	7068.5	7068.5	7068.5	7068.5
2.5°	7808.3	7796.5	7754.9	7754.9	7675.8	7608.5	7481.9	7396.9	7296.0	7260.4	7141.7
5°	8564.1	8568.0	8516.6	8481.0	8364.3	8221.8	8006.2	7810.3	7614.5	7535.3	7292.0
7.5°	9199.1	9191.2	9177.3	9147.7	9038.9	8892.5	8601.6	8310.8	8022.0	7903.3	7483.9
10°	9606.6	9624.4	9636.3	9650.1	9604.6	9499.8	9224.8	8870.7	8492.8	8330.6	7713.4
12.5°	9812.4	9844.0	9899.4	9994.4	10069.5	10057.7	9857.9	9482.0	9032.9	8829.2	8000.2
15°	9933.0	9974.6	10061.6	10231.8	10443.4	10564.1	10510.7	10170.4	9669.9	9418.7	8350.4
17.5°	10008.2	10041.8	10176.4	10403.9	10718.4	11038.9	11179.4	10894.5	10390.0	10103.2	8752.0
20°	10059.7	10085.4	10253.5	10520.6	10928.1	11438.5	11830.2	11759.0	11183.3	10811.4	9171.4
22.5°	10174.4	10196.2	10356.4	10625.4	11076.5	11735.3	12457.4	12564.2	12020.1	11598.8	9620.5
25°	10494.9	10494.9	10629.4	10817.3	11240.7	11992.5	12987.5	13460.3	12874.8	12384.2	10035.9
27.5°	11106.2	11100.2	11149.7	11215.0	11535.5	12253.6	13460.3	14251.7	13761.1	13224.9	10439.5
30°	11830.2	11869.8	11875.7	11844.1	11994.4	12580.0	13897.6	15086.5	14653.3	14075.6	10853.0
32.5°	12762.0	12787.7	12758.1	12653.2	12631.4	13042.9	14326.8	15960.9	15618.7	14963.9	11230.8
35°	13945.0	13895.6	13802.6	13588.9	13385.2	13662.1	14817.5	16835.3	16702.8	16038.1	11751.1
37.5°	15213.1	15215.1	15100.4	14615.7	14334.8	14453.5	15494.0	17826.5	18014.4	17316.1	12417.8
40°	16230.0	16283.4	16354.6	15717.6	15353.6	15517.8	16354.6	18975.8	19565.4	18831.4	13286.3
42.5°	16940.2	17001.5	17203.3	16803.7	16425.8	16730.5	17367.5	20202.4	21306.3	20580.2	14303.1
45°	17691.9	17725.6	17868.0	17695.9	17454.5	18141.0	18509.0	21472.5	23148.1	22443.8	15440.6
47.5°	18483.3	18518.9	18665.3	18550.5	18423.9	19458.6	19699.9	22669.3	24912.7	24491.3	16655.3
50°	19460.5	19484.3	19622.8	19415.0	19454.6	20451.7	20764.2	23767.3	26762.4	26331.2	17873.9
52.5°	20793.9	20799.8	20991.7	20803.8	20617.8	21179.7	21680.2	24801.9	28212.5	28008.8	19092.6
55°	21838.4	21901.8	22530.9	22491.3	22384.5	21840.4	22445.8	25787.1	29506.3	29603.3	20386.4
57.5°	21171.8	21419.0	22693.1	23591.2	24465.6	23484.4	23480.4	26897.0	30709.1	31168.1	21808.8
60°	18542.6	18878.9	20756.3	22748.5	25484.5	26345.0	25628.9	28252.1	31923.8	32719.1	23591.2
62.5°	13242.7	13796.7	16340.8	19521.9	24087.8	28240.2	30000.9	30402.5	33575.7	34515.4	25907.8
65°	6694.6	7114.0	9246.6	13078.5	19244.9	27001.8	34752.8	35110.9	36446.2	37281.1	29474.7
67.5°	4067.4	4225.6	5266.2	7274.2	11798.6	21033.3	36303.8	42958.8	42001.3	42444.4	34560.9
70°	2997.1	3113.8	3762.7	4831.0	6785.6	12342.6	31544.0	48559.3	47930.2	47880.8	38319.7
72°	2334.4	2419.5	2993.2	3903.2	4961.6	7404.8	22863.2	46492.0	49627.6	49378.4	37975.4
72.5°	2213.7	2288.9	2811.2	3673.7	4688.6	6712.4	20556.5	45097.3	49505.0	49392.2	37530.3
75°	1742.9	1796.3	2081.2	2840.8	3669.7	3808.2	11264.4	34948.6	43916.3	45742.2	33755.7
77.5°	1442.2	1450.1	1600.4	2067.3	2860.6	2692.5	5533.3	24248.0	31447.0	33455.0	23911.7
80°	1175.1	1185.0	1256.2	1450.1	2164.3	1992.1	2627.2	13943.1	17606.9	17628.6	11371.3
82.5°	935.7	937.7	1016.8	1060.4	1554.9	1424.4	1505.5	6546.2	7693.6	7400.8	4087.2
85°	658.8	644.9	993.1	870.5	1016.8	914.0	830.9	2591.6	3181.1	3042.6	1280.0
87.5°	219.6	227.5	441.2	563.8	593.5	518.3	369.9	993.1	1200.8	1190.9	405.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7068.5	7068.5	7068.5	7068.5	7068.5	7068.5	7068.5	7068.5	7068.5	7068.5	7068.5
2.5°	7104.1	7040.8	6947.8	6844.9	6763.8	6680.7	6619.4	6587.7	6552.1	6522.5	6558.1
5°	7179.2	7060.6	6862.7	6668.8	6526.4	6399.8	6308.8	6261.3	6217.8	6188.1	6192.1
7.5°	7301.9	7110.0	6777.7	6494.8	6296.9	6160.4	6067.4	6035.8	6008.1	6000.2	6010.1
10°	7432.5	7149.6	6664.9	6289.0	6063.5	5950.7	5909.2	5930.9	5950.7	5968.5	5988.3
12.5°	7580.8	7185.2	6500.7	6047.7	5855.8	5812.2	5853.8	5948.7	6018.0	6059.5	6085.2
15°	7774.7	7216.8	6310.8	5806.3	5677.7	5727.2	5867.6	6031.8	6152.5	6229.7	6241.5
17.5°	7952.8	7214.9	6067.4	5563.0	5533.3	5677.7	5889.4	6120.9	6283.1	6391.9	6413.6
20°	8136.7	7161.4	5784.5	5325.6	5386.9	5624.3	5899.3	6178.2	6374.1	6500.7	6530.4
22.5°	8308.9	7068.5	5474.0	5109.9	5264.3	5553.1	5861.7	6144.6	6340.4	6443.3	6475.0
25°	8425.6	6906.2	5159.4	4927.9	5155.4	5466.0	5739.0	5966.6	6112.9	6164.4	6172.3
27.5°	8484.9	6694.6	4862.7	4769.7	5042.7	5323.6	5511.5	5624.3	5665.8	5661.9	5654.0
30°	8492.8	6415.6	4607.5	4641.1	4912.1	5113.9	5202.9	5181.2	5127.8	5036.8	5044.7
32.5°	8467.1	6101.1	4393.8	4518.4	4745.9	4858.7	4862.7	4757.8	4615.4	4471.0	4431.4
35°	8475.0	5792.5	4205.9	4380.0	4544.2	4593.6	4548.1	4393.8	4199.9	4014.0	3974.4
37.5°	8562.1	5523.4	4043.6	4219.7	4320.6	4332.5	4267.2	4105.0	3962.5	3780.5	3764.7
40°	8769.8	5331.5	3889.3	4039.7	4097.1	4103.0	4010.0	3895.3	3907.1	3810.2	3808.2
42.5°	9143.7	5248.4	3752.8	3851.7	3887.4	3899.2	3828.0	3754.8	3857.7	3794.4	3772.6
45°	9626.4	5268.2	3638.1	3667.8	3733.1	3788.4	3744.9	3655.9	3695.5	3420.5	3329.5
47.5°	10184.3	5394.8	3547.1	3509.5	3622.3	3727.1	3659.9	3525.3	3384.9	3111.9	3060.4
50°	10837.1	5590.7	3464.0	3353.2	3501.6	3644.0	3576.8	3384.9	3173.2	3040.6	3022.8
52.5°	11517.7	5830.0	3380.9	3181.1	3349.3	3580.7	3547.1	3353.2	3092.1	2961.5	2937.8
55°	12289.2	6071.4	3276.1	2981.3	3185.1	3551.0	3533.2	3238.5	3030.8	2957.6	2939.8
57.5°	13248.7	6346.4	3137.6	2773.6	3030.8	3444.2	3388.8	3169.2	2967.4	2912.1	2906.1
60°	14499.0	6751.9	2937.8	2552.0	2842.8	3280.0	3268.2	3068.3	2866.6	2827.0	2819.1
62.5°	16374.4	7422.6	2662.8	2330.4	2633.1	3001.1	3109.9	2931.8	2759.7	2757.7	2761.7
65°	19282.5	8431.5	2364.1	2136.6	2421.4	2765.7	2925.9	2791.4	2650.9	2690.5	2696.4
67.5°	22653.5	9268.3	2071.3	1946.6	2205.8	2542.1	2759.7	2650.9	2506.5	2609.4	2611.4
70°	23775.2	8520.5	1814.1	1758.7	1982.3	2326.5	2579.7	2496.6	2350.2	2453.1	2443.2
72°	22125.3	6878.5	1647.9	1616.3	1814.1	2148.4	2419.5	2352.2	2207.8	2277.0	2251.3
72.5°	21605.0	6558.1	1606.4	1580.7	1768.6	2102.9	2377.9	2316.6	2172.2	2231.5	2207.8
75°	19272.6	5695.5	1380.9	1386.8	1543.1	1881.4	2144.5	2124.7	1976.3	1982.3	1974.3
77.5°	13978.7	4176.2	1163.2	1202.8	1313.6	1653.9	1909.1	1897.2	1735.0	1705.3	1699.4
80°	6486.8	2130.6	947.6	965.4	1080.2	1382.8	1628.1	1612.3	1481.7	1444.2	1422.4
82.5°	2221.6	1012.9	712.2	724.1	836.8	1113.8	1412.5	1402.6	1293.8	1220.6	1175.1
85°	793.3	504.5	498.5	486.7	597.4	876.4	1230.5	1177.1	1016.8	866.5	862.5
87.5°	257.2	215.6	257.2	255.2	348.2	593.5	894.2	761.6	737.9	613.3	601.4
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)