

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: P320964

Luminaire Tested: **GAN-SA0B-740-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320964
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0B-740-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58030 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

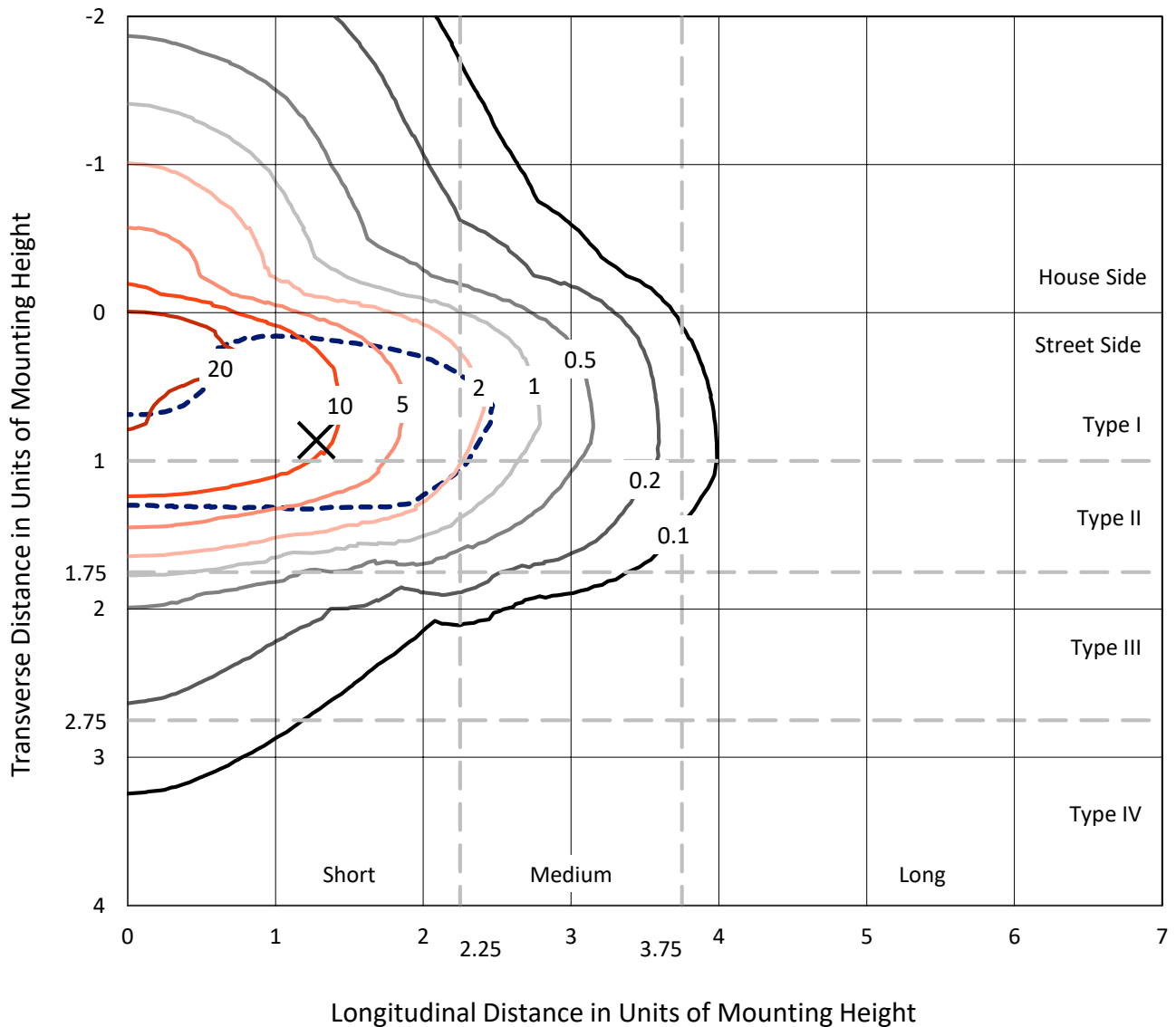
Input Watts (W): 419
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

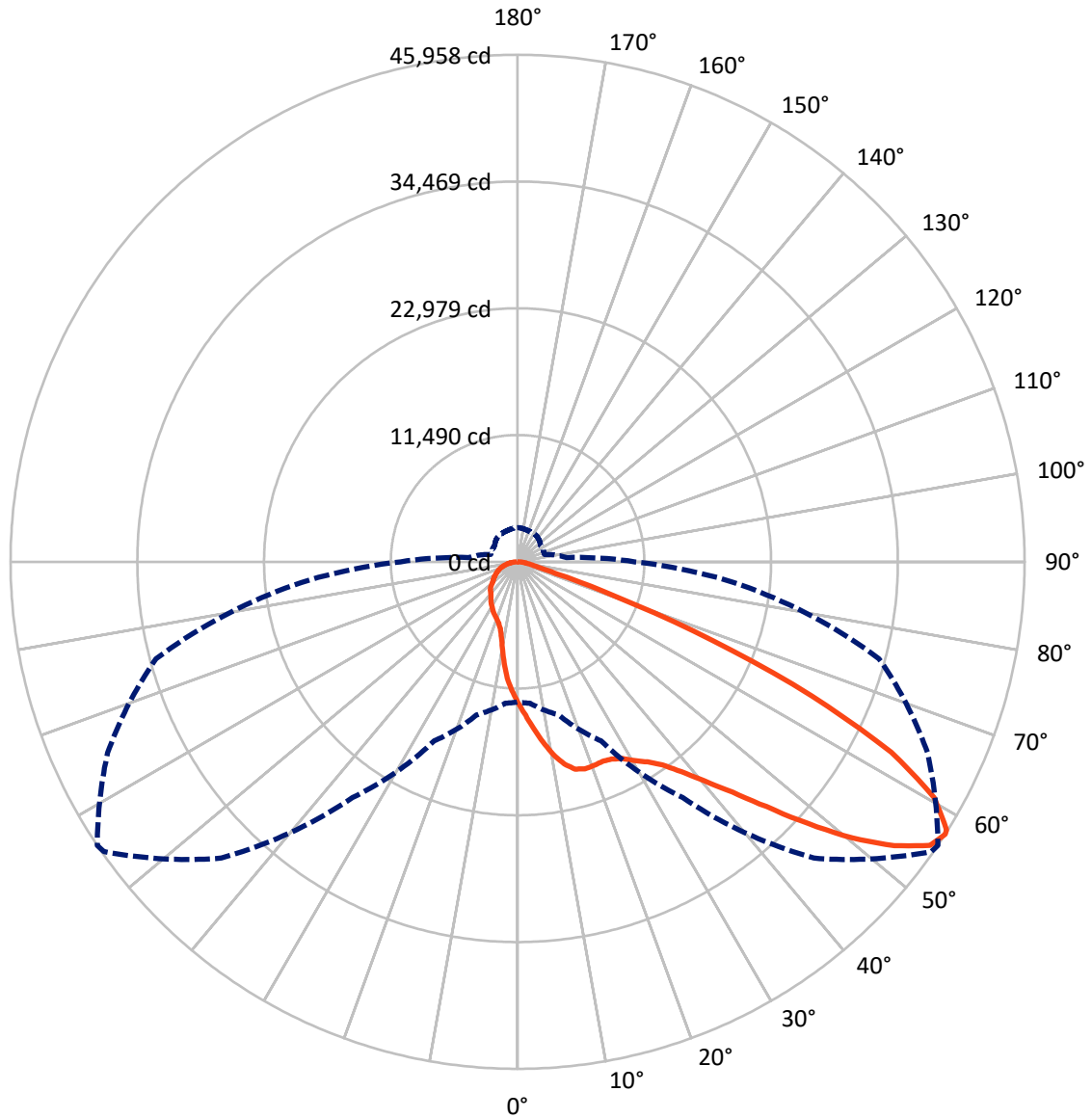
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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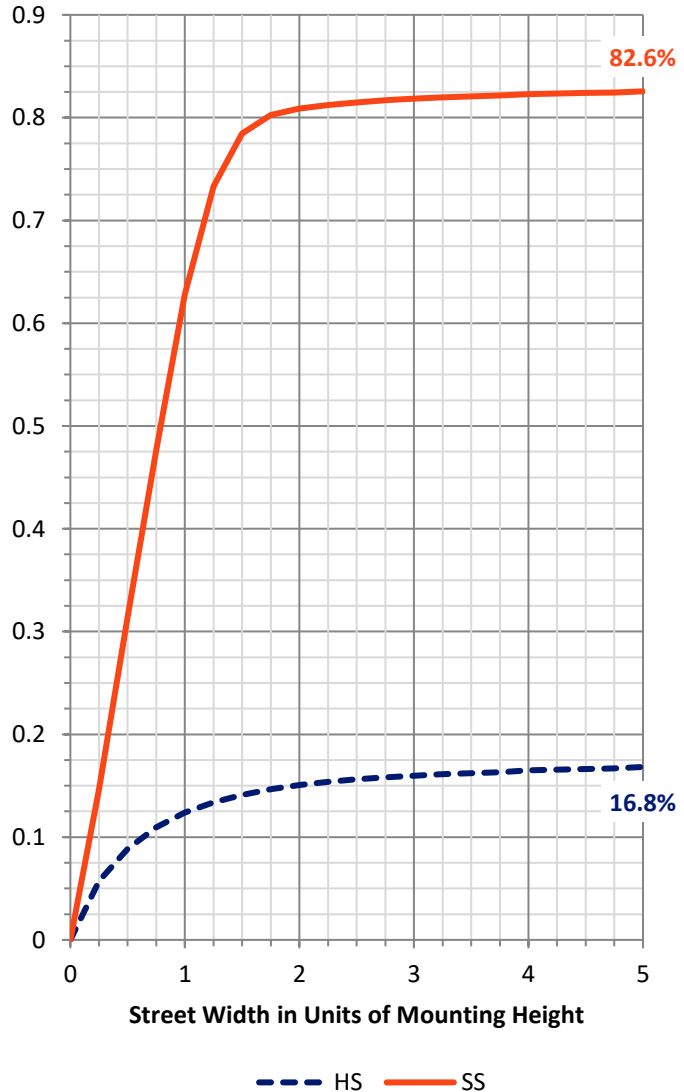
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10003.1	0.0	10003.1
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	48026.9	0.0	48026.9
	% Fixture	82.8	0.0	82.8
Total	Lumens	58030.0	0.0	58030.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1229.5	2.1
10°-20°	3476.1	6.0
20°-30°	5661.9	9.8
30°-40°	8464.0	14.6
40°-50°	12838.0	22.1
50°-60°	14389.2	24.8
60°-70°	8498.8	14.6
70°-80°	2784.5	4.8
80°-90°	687.9	1.2
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°	58030.0	100.0
0°-180°	58030.0	100.0

Coefficient of Utilization

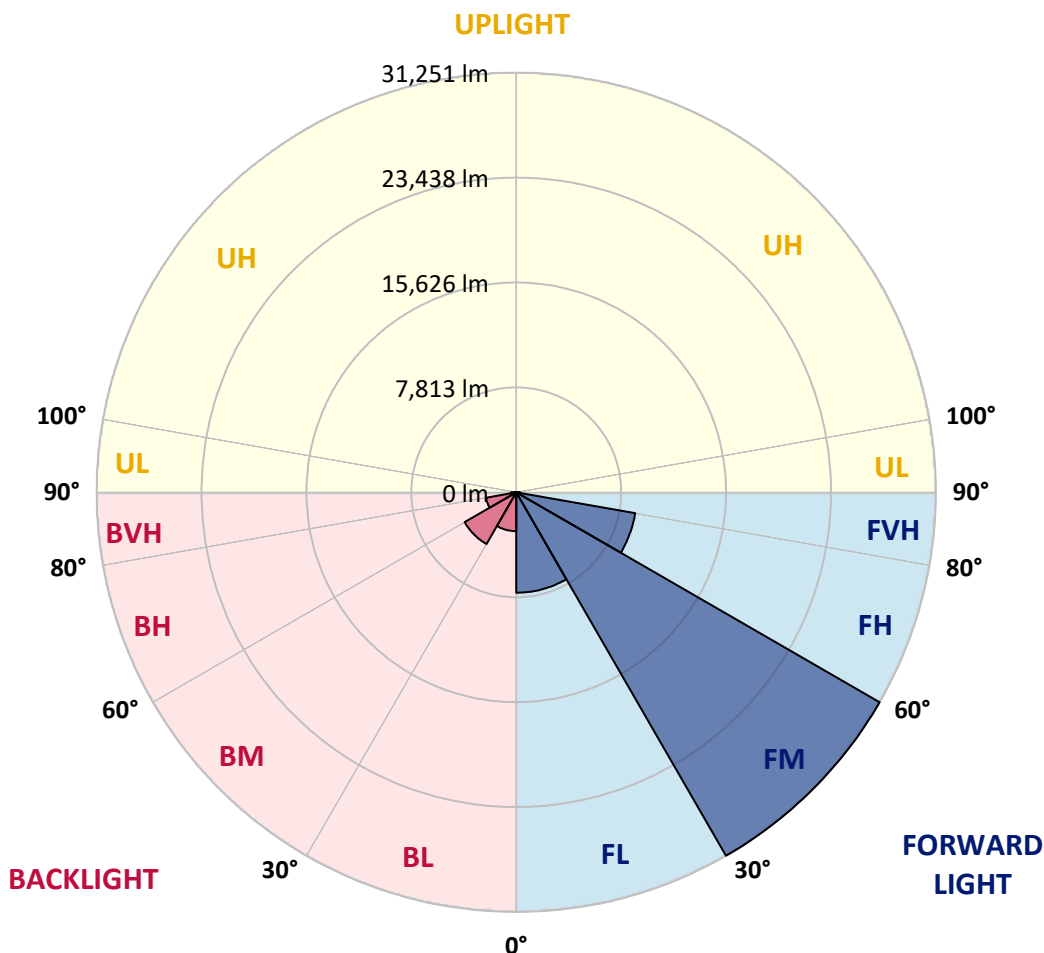


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7475.1	12.9			
FM (30°-60°)	31251.1	53.9			
FH (60°-80°)	8997.7	15.5			G4/12000
FVH (80°-90°)	302.9	0.5			G3/500
BL (0°-30°)	2892.4	5.0	B4/5000		
BM (30°-60°)	4440.1	7.7	B3/5000		
BH (60°-80°)	2285.6	3.9	B3/2500		G3/2500
BVH (80°-90°)	385.0	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-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	12871.1	12871.1	12871.1	12871.1	12871.1	12871.1	12871.1	12871.1	12871.1	12871.1	12871.1
2.5°	14779.6	14915.2	14855.4	14648.0	14488.5	14263.1	14011.8	13936.1	13670.8	13373.7	13016.7
5°	17118.9	17051.1	16953.4	16630.3	16289.3	15892.4	15262.3	15162.5	14572.2	13900.2	13190.2
7.5°	18451.1	18445.1	18387.3	18197.8	17886.7	17368.2	16608.4	16490.7	15599.3	14518.4	13417.5
10°	18257.7	18243.7	18339.4	18536.9	18630.6	18522.9	17882.7	17765.1	16670.2	15202.4	13680.8
12.5°	17158.8	17166.8	17320.4	17735.2	18299.5	18977.6	18873.9	18816.1	17781.0	15976.2	13999.9
15°	16303.3	16321.2	16442.9	16803.8	17469.9	18700.4	19476.2	19496.1	18856.0	16829.8	14372.8
17.5°	15928.3	15966.2	16022.1	16275.3	16885.6	18148.0	19619.8	19727.5	19797.3	17715.2	14731.8
20°	16048.0	16083.9	16099.9	16261.4	16762.0	17812.9	19520.0	19713.5	20519.2	18548.8	15090.7
22.5°	16584.5	16606.4	16616.4	16658.3	17047.1	17908.7	19454.2	19657.7	21041.7	19296.7	15362.0
25°	17473.9	17458.0	17394.1	17340.3	17601.5	18287.6	19605.8	19799.2	21466.5	19974.7	15539.5
27.5°	18538.9	18518.9	18395.3	18247.7	18397.3	18877.9	20042.6	20196.1	21847.4	20608.9	15629.2
30°	19817.2	19765.3	19532.0	19356.5	19414.4	19763.4	20762.5	20902.1	22435.7	21328.9	15716.9
32.5°	21295.0	21239.1	20902.1	20610.9	20610.9	20902.1	21504.4	21620.0	22934.3	22142.5	15858.5
35°	23145.7	23075.9	22637.1	22148.5	22010.9	22158.5	22515.5	22597.2	23831.7	23167.6	16115.8
37.5°	25327.4	25233.7	24665.3	24011.2	23710.0	23702.1	23959.3	24126.8	25265.6	24513.7	16552.6
40°	27515.1	27449.3	26952.7	26438.2	25847.9	25658.5	26055.3	26107.2	27140.2	26184.9	17111.0
42.5°	29206.3	29194.3	29102.6	29170.4	28566.1	28183.2	28494.3	28536.2	29429.6	27993.8	17705.3
45°	30099.7	30119.7	30564.4	31549.6	31772.9	31493.7	31647.3	31659.3	32046.1	29818.5	18249.7
47.5°	29383.8	29487.5	30612.3	32815.9	34644.7	35572.0	35316.8	35464.3	34582.9	31386.0	18676.5
50°	26593.8	26721.4	28635.9	32251.6	35984.9	39518.7	39385.1	39351.2	36629.0	32534.7	18907.8
52.5°	23137.7	23237.4	24816.9	29318.0	35001.7	41700.5	42927.0	42751.5	38447.8	33394.3	18951.7
55°	17874.8	18030.3	19544.0	23462.7	31025.1	40866.9	45531.5	45373.9	40105.0	33845.0	18899.8
57°	12707.6	12871.1	14374.8	17906.7	26099.2	37981.1	45790.7	45958.3	41000.5	33920.8	18957.7
57.5°	11339.5	11507.0	12996.7	16426.9	24563.6	36938.1	45567.4	45846.6	41162.0	33908.8	18989.6
60°	5709.6	5773.5	6722.7	9169.7	15527.5	29862.4	42653.7	43373.7	41307.6	33322.5	19127.2
62.5°	3549.8	3504.0	3474.0	4223.9	7554.3	19803.2	36641.0	38027.0	38521.6	31902.6	18794.1
65°	3121.1	3035.3	2706.2	2646.4	3336.4	9618.4	27592.9	29318.0	32568.6	29665.0	18000.4
67.5°	2931.6	2847.8	2476.9	2253.5	2255.5	3813.1	17130.9	19073.3	25371.3	25881.8	16127.8
70°	2736.2	2660.4	2313.4	2050.1	1920.5	2111.9	7881.4	9355.2	16538.6	20343.7	13479.4
72.5°	2484.9	2433.0	2104.0	1832.7	1695.1	1581.5	3017.4	3563.8	9574.6	13662.8	9361.2
75°	2221.6	2173.8	1892.6	1633.3	1465.8	1244.4	1699.1	1830.8	4864.1	6990.0	4608.8
77.5°	1932.5	1904.5	1683.2	1443.9	1310.2	1031.0	1202.6	1266.4	2086.0	2997.4	2311.4
80°	1537.6	1591.4	1471.8	1286.3	1162.7	825.6	851.6	893.4	1214.5	1463.8	1312.2
82.5°	1001.1	1094.9	1152.7	1045.0	957.3	650.1	612.2	630.2	791.7	893.4	570.4
85°	416.8	468.7	757.8	684.0	636.2	474.6	410.8	418.8	490.6	508.5	233.3
87.5°	185.5	197.4	333.0	313.1	269.2	163.5	175.5	191.5	261.3	247.3	89.7
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°	12871.1	12871.1	12871.1	12871.1	12871.1	12871.1	12871.1	12871.1	12871.1	12871.1	12871.1
2.5°	12883.1	12715.6	12428.4	12111.3	11852.0	11644.6	11435.2	11291.6	11124.1	11034.4	10988.5
5°	12893.0	12564.0	11959.7	11339.5	10785.1	10278.5	9795.9	9425.0	9078.0	8890.5	8838.7
7.5°	12934.9	12440.3	11463.1	10442.1	9456.9	8557.5	7863.5	7428.7	7115.6	6976.0	6936.1
10°	12968.8	12294.8	10848.9	9337.2	7997.1	7085.7	6547.2	6303.9	6196.2	6178.3	6160.3
12.5°	13048.6	12145.2	10202.8	8184.5	6862.3	6232.1	6044.7	6028.7	6058.6	6102.5	6102.5
15°	13174.2	11997.6	9464.9	7195.4	6140.4	5919.0	5956.9	6044.7	6126.4	6194.2	6204.2
17.5°	13266.0	11816.1	8671.1	6403.6	5755.5	5815.3	5950.9	6074.6	6158.3	6224.2	6230.1
20°	13331.8	11534.9	7823.6	5799.4	5534.1	5719.6	5889.1	5998.8	6056.6	6122.5	6132.4
22.5°	13297.9	11158.0	7071.7	5366.6	5354.7	5580.0	5741.5	5873.2	5829.3	5765.5	5807.4
25°	13134.4	10639.5	6297.9	5043.5	5165.2	5392.5	5592.0	5504.2	5356.6	5328.7	5344.7
27.5°	12843.2	9977.4	5582.0	4744.4	4945.8	5219.0	5207.1	5119.3	5067.5	5031.6	5053.5
30°	12530.1	9259.5	4955.8	4483.1	4702.5	4927.9	4882.0	4880.0	4828.2	4770.3	4798.2
32.5°	12221.0	8537.5	4459.2	4267.8	4519.0	4549.0	4648.7	4678.6	4576.9	4455.2	4447.3
35°	11951.7	7855.5	4082.3	4072.3	4297.7	4301.7	4447.3	4405.4	4152.1	4026.5	4026.5
37.5°	11750.3	7175.4	3795.1	3896.8	4006.5	4110.2	4184.0	4010.5	3968.6	3898.8	3896.8
40°	11662.6	6577.1	3615.6	3763.2	3801.1	3932.7	3743.3	3811.1	3831.0	3795.1	3795.1
42.5°	11570.8	6056.6	3460.1	3661.5	3655.5	3637.6	3541.8	3629.6	3709.4	3711.4	3705.4
45°	11479.1	5607.9	3322.5	3444.1	3527.9	3334.4	3352.4	3446.1	3557.8	3597.7	3597.7
47.5°	11377.4	5252.9	3196.8	3214.8	3344.4	3214.8	3200.8	3272.6	3404.2	3468.1	3482.0
50°	11154.0	4933.9	3053.2	3013.4	3049.3	3093.1	3105.1	3139.0	3284.6	3386.3	3410.2
52.5°	10844.9	4648.7	2869.8	2827.9	2827.9	2993.4	3049.3	3059.2	3182.9	3304.5	3328.5
55°	10587.7	4467.2	2680.3	2672.3	2664.4	2887.7	2983.4	2999.4	3085.2	3180.9	3192.8
57°	10605.6	4453.2	2534.7	2542.7	2540.7	2780.0	2921.6	2955.5	2999.4	3081.2	3095.1
57.5°	10615.6	4463.2	2502.8	2506.8	2504.8	2750.1	2903.7	2941.6	2975.5	3061.2	3075.2
60°	10765.1	4489.1	2373.2	2329.3	2339.3	2590.6	2802.0	2849.8	2871.8	2985.4	3003.4
62.5°	10543.8	4373.5	2269.5	2163.8	2163.8	2423.1	2660.4	2736.2	2770.1	2923.6	2953.5
65°	9901.6	4048.4	2147.8	1976.3	1996.3	2255.5	2490.9	2614.5	2666.4	2857.8	2889.7
67.5°	8910.5	3671.5	2018.2	1808.8	1828.8	2080.0	2315.4	2449.0	2530.7	2786.0	2811.9
70°	7620.2	3210.8	1842.7	1631.3	1655.3	1888.6	2108.0	2259.5	2381.2	2718.2	2726.2
72.5°	5617.9	2632.5	1597.4	1435.9	1461.8	1665.2	1898.6	2074.1	2237.6	2548.7	2544.7
75°	3340.4	2058.1	1326.2	1238.5	1256.4	1445.9	1709.1	1922.5	2167.8	2482.9	2520.8
77.5°	2026.2	1549.6	1080.9	1037.0	1059.0	1252.4	1573.5	1800.8	2137.9	2341.3	2329.3
80°	1224.5	1106.8	863.5	835.6	857.5	1070.9	1455.8	1709.1	1868.6	2000.3	2000.3
82.5°	640.2	676.1	634.2	612.2	642.2	869.5	1324.2	1491.7	1651.3	1417.9	1324.2
85°	261.3	353.0	384.9	382.9	400.9	602.3	1142.7	1276.3	1064.9	1011.1	1035.0
87.5°	87.7	149.6	187.5	161.5	169.5	378.9	791.7	616.2	731.9	510.5	484.6
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)