

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: P321004

Luminaire Tested: **GAN-SA0B-750-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321004
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-750-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58028 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

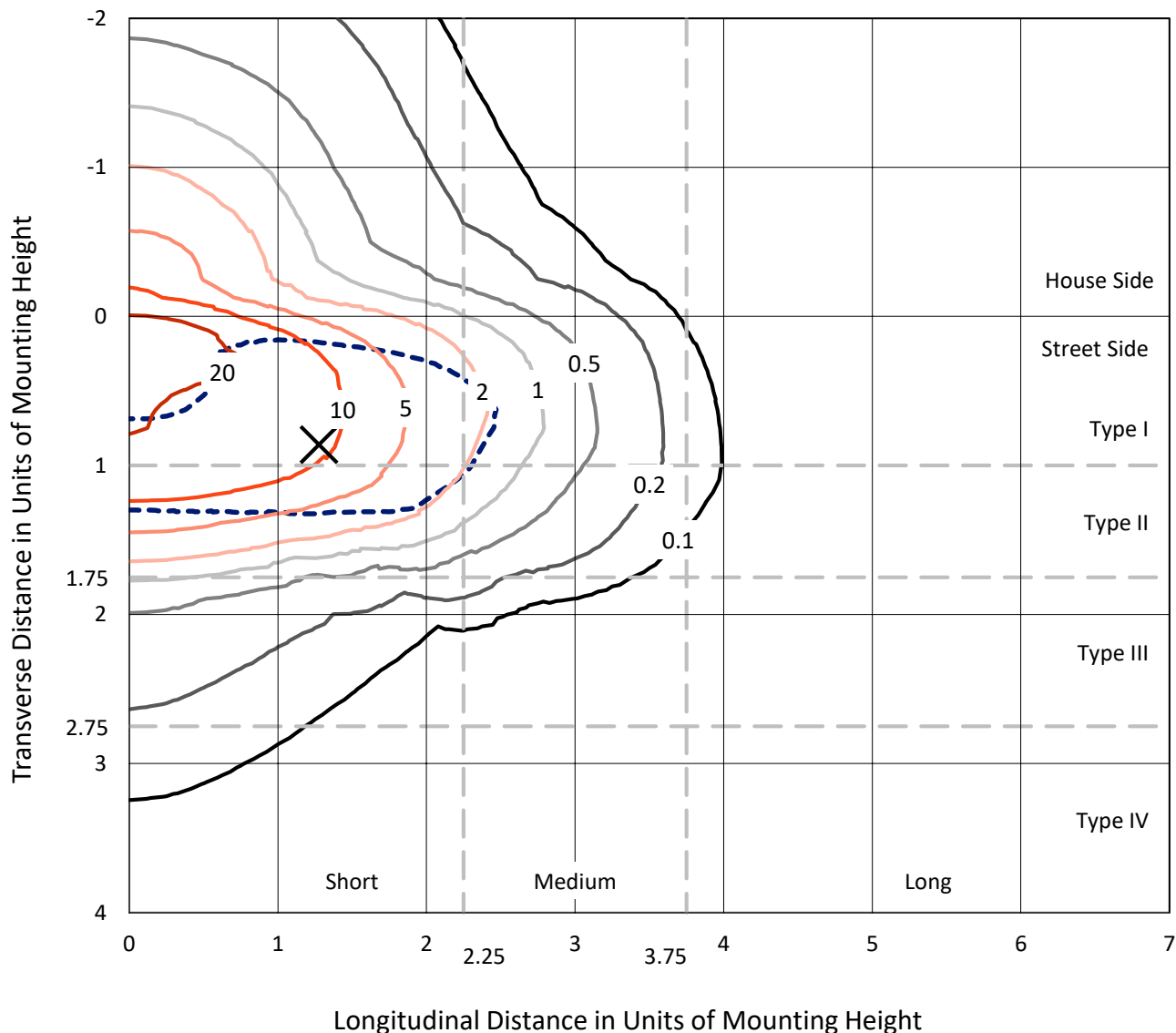
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

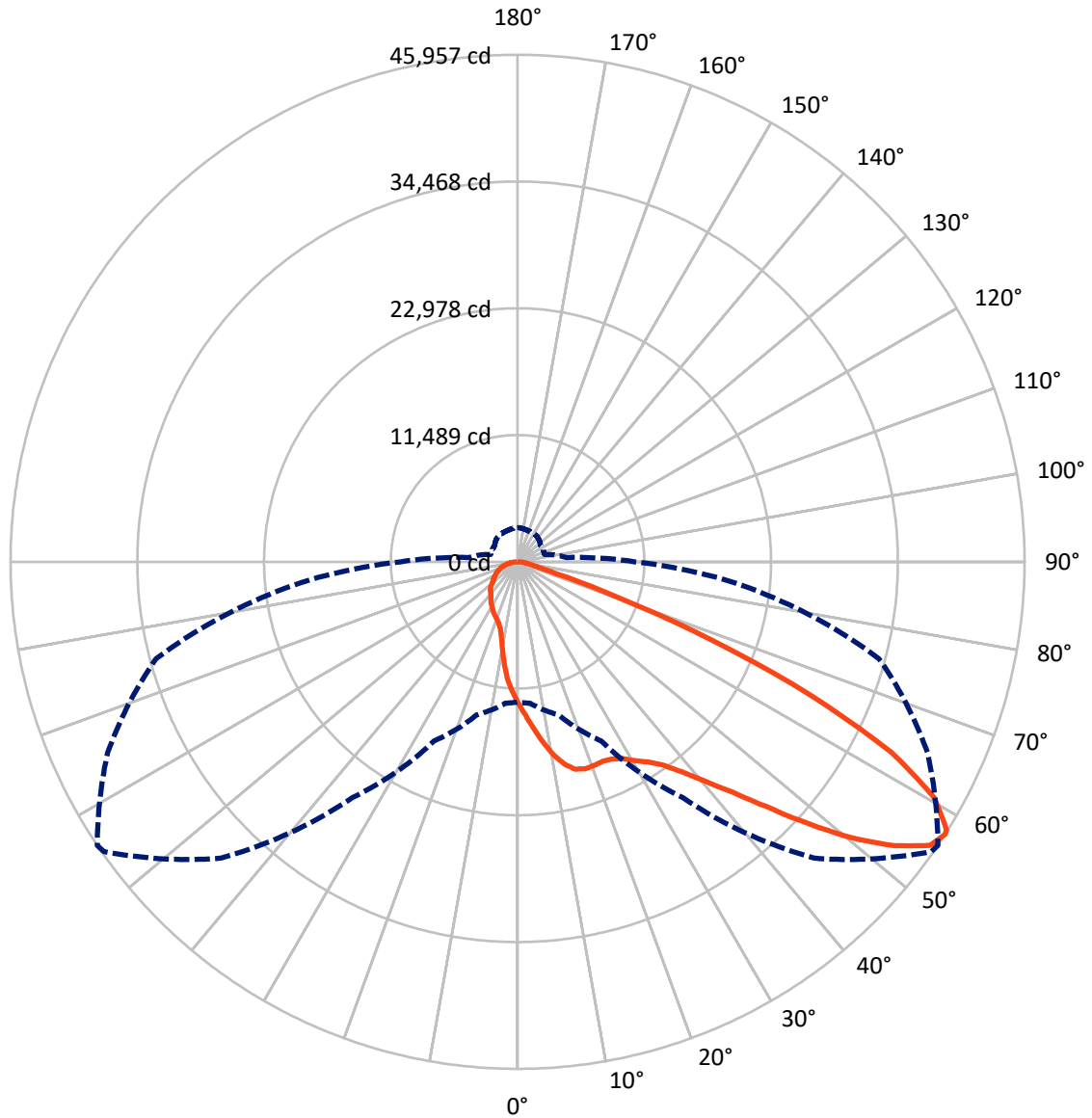
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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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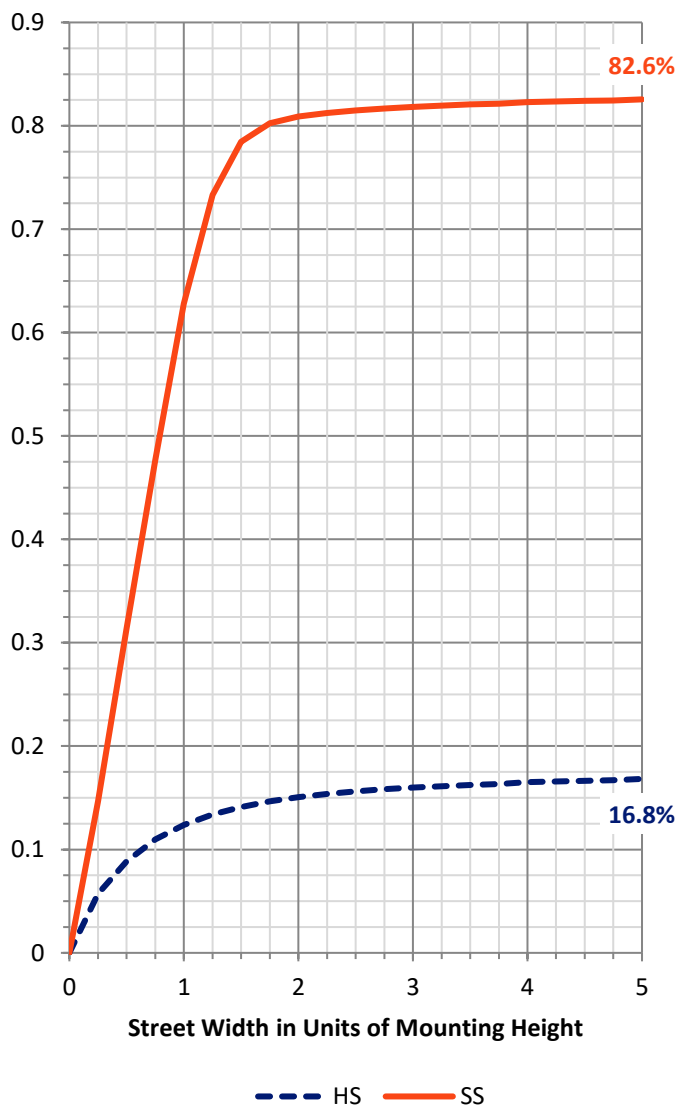
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10002.8	0.0	10002.8
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	48025.2	0.0	48025.2
	% Fixture	82.8	0.0	82.8
Total	Lumens	58028.0	0.0	58028.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1229.5	2.1
10°-20°	3476.0	6.0
20°-30°	5661.7	9.8
30°-40°	8463.7	14.6
40°-50°	12837.6	22.1
50°-60°	14388.7	24.8
60°-70°	8498.5	14.6
70°-80°	2784.4	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°	58028.0	100.0
0°-180°	58028.0	100.0

Coefficient of Utilization

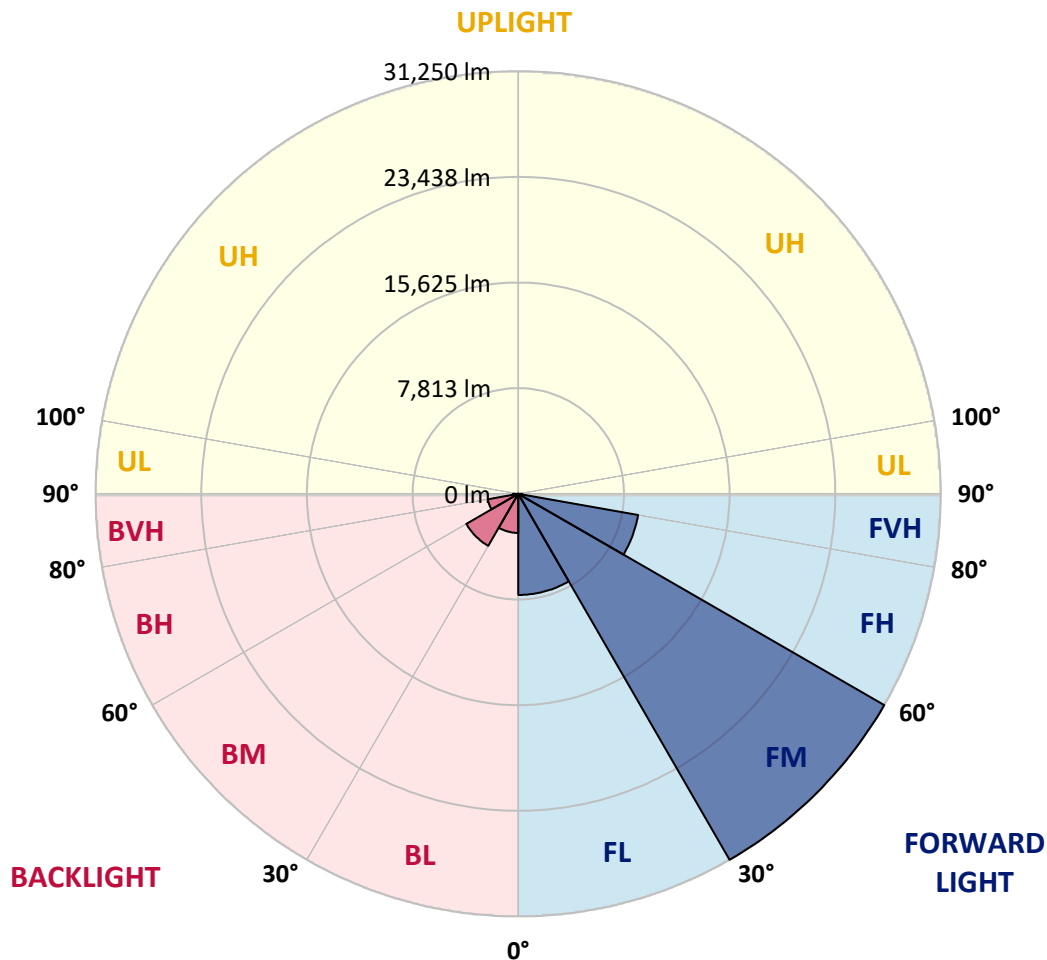


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7474.9	12.9			
FM (30°-60°)	31250.0	53.9			
FH (60°-80°)	8997.4	15.5			G4/12000
FVH (80°-90°)	302.9	0.5			G3/500
BL (0°-30°)	2892.3	5.0	B4/5000		
BM (30°-60°)	4439.9	7.7	B3/5000		
BH (60°-80°)	2285.5	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°	12870.7	12870.7	12870.7	12870.7	12870.7	12870.7	12870.7	12870.7	12870.7	12870.7	12870.7
2.5°	14779.1	14914.7	14854.9	14647.5	14488.0	14262.6	14011.4	13935.6	13670.3	13373.2	13016.2
5°	17118.3	17050.5	16952.8	16629.8	16288.7	15891.9	15261.7	15162.0	14571.7	13899.7	13189.7
7.5°	18450.5	18444.5	18386.7	18197.2	17886.1	17367.6	16607.8	16490.2	15598.7	14517.9	13417.1
10°	18257.0	18243.1	18338.8	18536.2	18630.0	18522.3	17882.1	17764.5	16669.6	15201.9	13680.3
12.5°	17158.2	17166.2	17319.8	17734.6	18298.9	18976.9	18873.3	18815.4	17780.4	15975.7	13999.4
15°	16302.7	16320.7	16442.3	16803.3	17469.3	18699.8	19475.5	19495.4	18855.3	16829.2	14372.3
17.5°	15927.8	15965.7	16021.5	16274.8	16885.0	18147.4	19619.1	19726.8	19796.6	17714.6	14731.3
20°	16047.4	16083.3	16099.3	16260.8	16761.4	17812.3	19519.4	19712.8	20518.5	18548.2	15090.2
22.5°	16583.9	16605.8	16615.8	16657.7	17046.5	17908.1	19453.6	19657.0	21041.0	19296.0	15361.4
25°	17473.3	17457.4	17393.5	17339.7	17600.9	18287.0	19605.1	19798.6	21465.7	19974.1	15538.9
27.5°	18538.2	18518.3	18394.6	18247.1	18396.6	18877.2	20041.9	20195.4	21846.6	20608.2	15628.7
30°	19816.5	19764.7	19531.3	19355.9	19413.7	19762.7	20761.8	20901.4	22434.9	21328.1	15716.4
32.5°	21294.2	21238.4	20901.4	20610.2	20610.2	20901.4	21503.6	21619.3	22933.5	22141.8	15858.0
35°	23144.9	23075.1	22636.3	22147.8	22010.2	22157.7	22514.7	22596.4	23830.9	23166.8	16115.3
37.5°	25326.5	25232.8	24664.5	24010.3	23709.2	23701.2	23958.5	24126.0	25264.7	24512.9	16552.0
40°	27514.2	27448.4	26951.8	26437.3	25847.0	25657.6	26054.4	26106.3	27139.3	26184.0	17110.4
42.5°	29205.3	29193.3	29101.6	29169.4	28565.1	28182.2	28493.3	28535.2	29428.6	27992.8	17704.6
45°	30098.7	30118.6	30563.3	31548.5	31771.8	31492.6	31646.2	31658.2	32045.0	29817.5	18249.1
47.5°	29382.8	29486.5	30611.2	32814.8	34643.5	35570.8	35315.6	35463.1	34581.7	31385.0	18675.8
50°	26592.9	26720.5	28634.9	32250.4	35983.6	39517.4	39383.8	39349.8	36627.7	32533.6	18907.2
52.5°	23136.9	23236.6	24816.0	29317.0	35000.5	41699.0	42925.5	42750.0	38446.5	33393.1	18951.0
55°	17874.1	18029.7	19543.3	23461.9	31024.0	40865.5	45529.9	45372.4	40103.7	33843.8	18899.2
57°	12707.1	12870.7	14374.3	17906.1	26098.3	37979.8	45789.2	45956.7	40999.1	33919.6	18957.0
57.5°	11339.1	11506.6	12996.3	16426.3	24562.7	36936.8	45565.8	45845.0	41160.6	33907.6	18988.9
60°	5709.4	5773.3	6722.5	9169.4	15527.0	29861.4	42652.3	43372.2	41306.2	33321.3	19126.5
62.5°	3549.7	3503.8	3473.9	4223.7	7554.1	19802.6	36639.7	38025.7	38520.3	31901.5	18793.5
65°	3120.9	3035.2	2706.1	2646.3	3336.3	9618.1	27592.0	29317.0	32567.5	29663.9	17999.8
67.5°	2931.5	2847.7	2476.8	2253.5	2255.5	3812.9	17130.3	19072.7	25370.4	25880.9	16127.2
70°	2736.1	2660.3	2313.3	2050.1	1920.4	2111.9	7881.1	9354.9	16538.0	20343.0	13478.9
72.5°	2484.8	2432.9	2103.9	1832.7	1695.1	1581.4	3017.2	3563.7	9574.2	13662.4	9360.8
75°	2221.6	2173.7	1892.5	1633.3	1465.7	1244.4	1699.1	1830.7	4863.9	6989.7	4608.6
77.5°	1932.4	1904.5	1683.1	1443.8	1310.2	1031.0	1202.5	1266.3	2085.9	2997.3	2311.3
80°	1537.5	1591.4	1471.7	1286.3	1162.6	825.6	851.5	893.4	1214.5	1463.8	1312.2
82.5°	1001.1	1094.8	1152.7	1045.0	957.2	650.1	612.2	630.2	791.7	893.4	570.3
85°	416.8	468.6	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	191.4	261.2	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°	12870.7	12870.7	12870.7	12870.7	12870.7	12870.7	12870.7	12870.7	12870.7	12870.7	12870.7
2.5°	12882.6	12715.1	12427.9	12110.9	11851.6	11644.2	11434.8	11291.2	11123.7	11034.0	10988.1
5°	12892.6	12563.6	11959.3	11339.1	10784.7	10278.2	9795.6	9424.7	9077.7	8890.2	8838.4
7.5°	12934.5	12439.9	11462.7	10441.7	9456.6	8557.2	7863.2	7428.5	7115.4	6975.8	6935.9
10°	12968.4	12294.3	10848.5	9336.9	7996.8	7085.4	6547.0	6303.7	6196.0	6178.1	6160.1
12.5°	13048.1	12144.8	10202.4	8184.3	6862.1	6231.9	6044.5	6028.5	6058.4	6102.3	6102.3
15°	13173.8	11997.2	9464.5	7195.1	6140.2	5918.8	5956.7	6044.5	6126.2	6194.0	6204.0
17.5°	13265.5	11815.7	8670.8	6403.4	5755.3	5815.1	5950.7	6074.4	6158.1	6223.9	6229.9
20°	13331.3	11534.5	7823.3	5799.2	5533.9	5719.4	5888.9	5998.6	6056.4	6122.2	6132.2
22.5°	13297.4	11157.6	7071.5	5366.4	5354.5	5579.8	5741.3	5873.0	5829.1	5765.3	5807.2
25°	13133.9	10639.1	6297.7	5043.4	5165.0	5392.4	5591.8	5504.0	5356.5	5328.5	5344.5
27.5°	12842.7	9977.1	5581.8	4744.2	4945.7	5218.9	5206.9	5119.1	5067.3	5031.4	5053.3
30°	12529.7	9259.1	4955.6	4483.0	4702.4	4927.7	4881.8	4879.8	4828.0	4770.2	4798.1
32.5°	12220.5	8537.2	4459.1	4267.6	4518.9	4548.8	4648.5	4678.4	4576.7	4455.1	4447.1
35°	11951.3	7855.2	4082.2	4072.2	4297.5	4301.5	4447.1	4405.2	4152.0	4026.3	4026.3
37.5°	11749.9	7175.2	3795.0	3896.7	4006.4	4110.1	4183.9	4010.4	3968.5	3898.7	3896.7
40°	11662.2	6576.9	3615.5	3763.1	3801.0	3932.6	3743.1	3810.9	3830.9	3795.0	3795.0
42.5°	11570.4	6056.4	3460.0	3661.4	3655.4	3637.4	3541.7	3629.5	3709.2	3711.2	3705.3
45°	11478.7	5607.7	3322.4	3444.0	3527.8	3334.3	3352.3	3446.0	3557.7	3597.6	3597.6
47.5°	11377.0	5252.8	3196.7	3214.7	3344.3	3214.7	3200.7	3272.5	3404.1	3467.9	3481.9
50°	11153.6	4933.7	3053.1	3013.3	3049.2	3093.0	3105.0	3138.9	3284.5	3386.2	3410.1
52.5°	10844.5	4648.5	2869.7	2827.8	2827.8	2993.3	3049.2	3059.1	3182.8	3304.4	3328.3
55°	10587.3	4467.0	2680.2	2672.2	2664.3	2887.6	2983.3	2999.3	3085.1	3180.8	3192.7
57°	10605.2	4453.1	2534.6	2542.6	2540.6	2779.9	2921.5	2955.4	2999.3	3081.1	3095.0
57.5°	10615.2	4463.1	2502.7	2506.7	2504.7	2750.0	2903.6	2941.5	2975.4	3061.1	3075.1
60°	10764.8	4489.0	2373.1	2329.2	2339.2	2590.5	2801.9	2849.7	2871.7	2985.3	3003.3
62.5°	10543.4	4373.3	2269.4	2163.7	2163.7	2423.0	2660.3	2736.1	2770.0	2923.5	2953.4
65°	9901.3	4048.3	2147.8	1976.3	1996.2	2255.5	2490.8	2614.4	2666.3	2857.7	2889.6
67.5°	8910.2	3671.3	2018.1	1808.8	1828.7	2080.0	2315.3	2448.9	2530.7	2785.9	2811.8
70°	7619.9	3210.7	1842.7	1631.3	1655.2	1888.5	2107.9	2259.4	2381.1	2718.1	2726.1
72.5°	5617.7	2632.4	1597.4	1435.8	1461.8	1665.2	1898.5	2074.0	2237.5	2548.6	2544.6
75°	3340.3	2058.0	1326.2	1238.4	1256.4	1445.8	1709.0	1922.4	2167.7	2482.8	2520.7
77.5°	2026.1	1549.5	1080.9	1037.0	1058.9	1252.4	1573.4	1800.8	2137.8	2341.2	2329.2
80°	1224.4	1106.8	863.5	835.6	857.5	1070.9	1455.8	1709.0	1868.6	2000.2	2000.2
82.5°	640.1	676.0	634.2	612.2	642.1	869.5	1324.2	1491.7	1651.2	1417.9	1324.2
85°	261.2	353.0	384.9	382.9	400.8	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)