

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: P318734

Luminaire Tested: **GAN-SA0C-740-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318734
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-740-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 70430 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

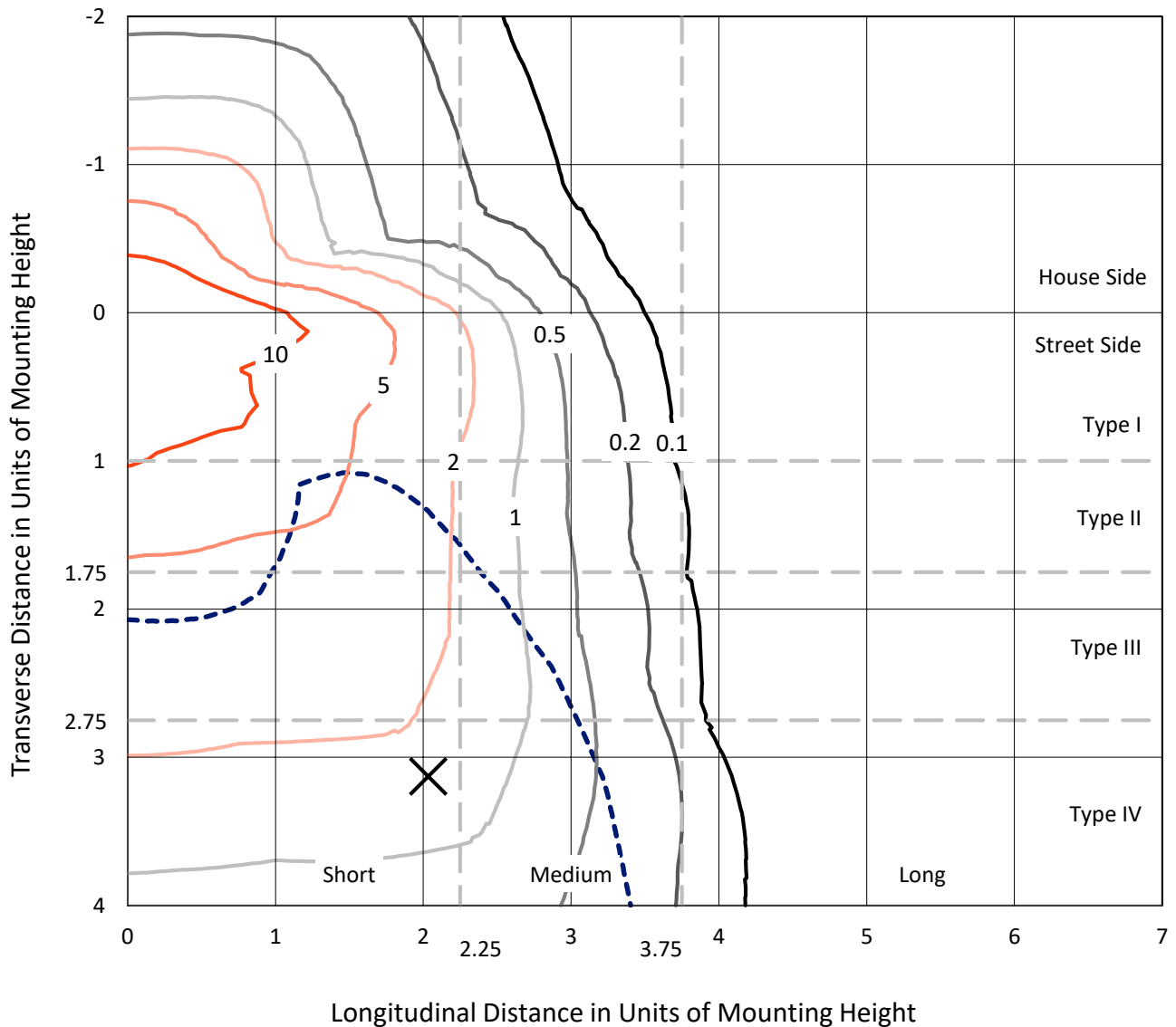
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

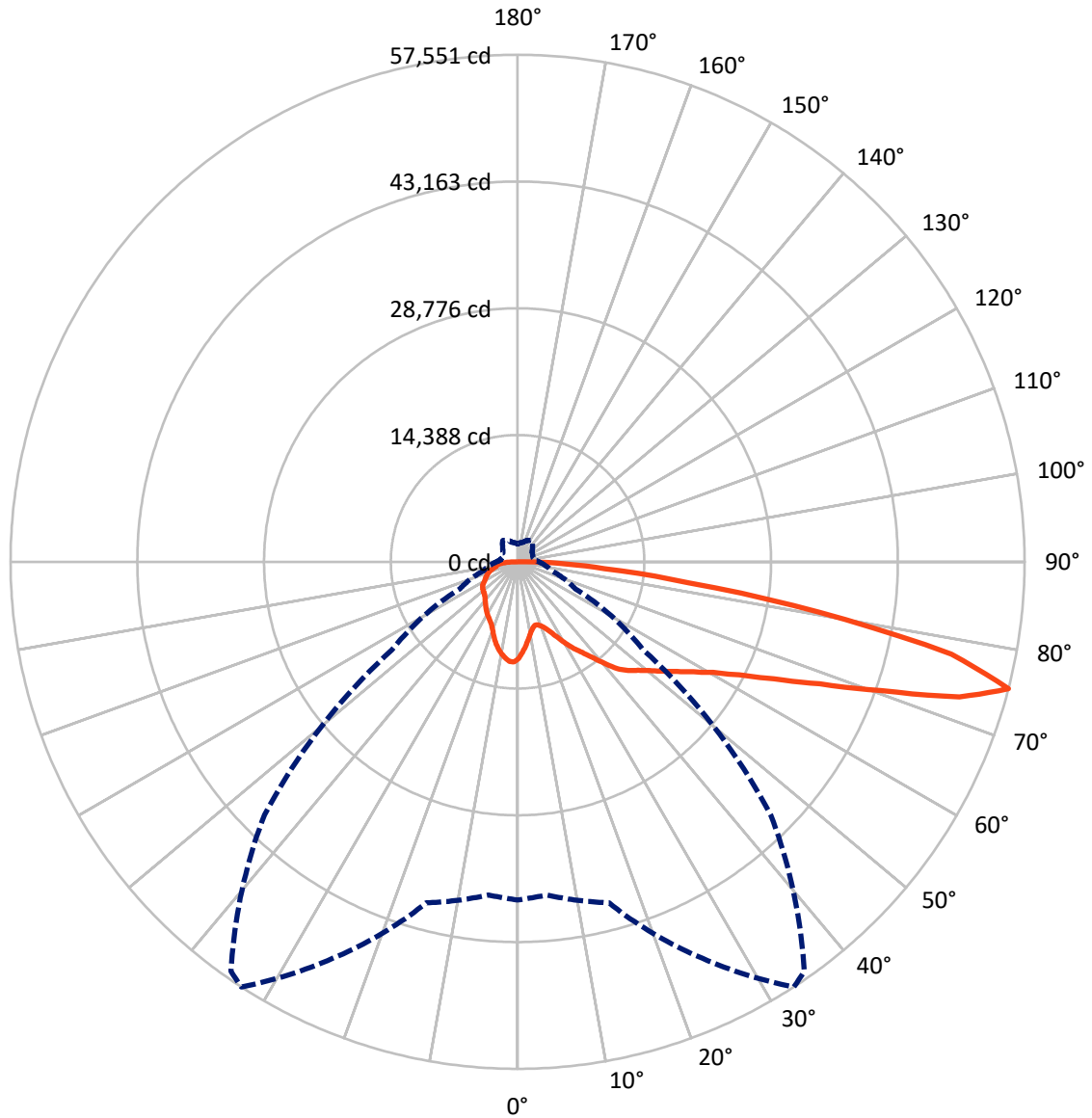
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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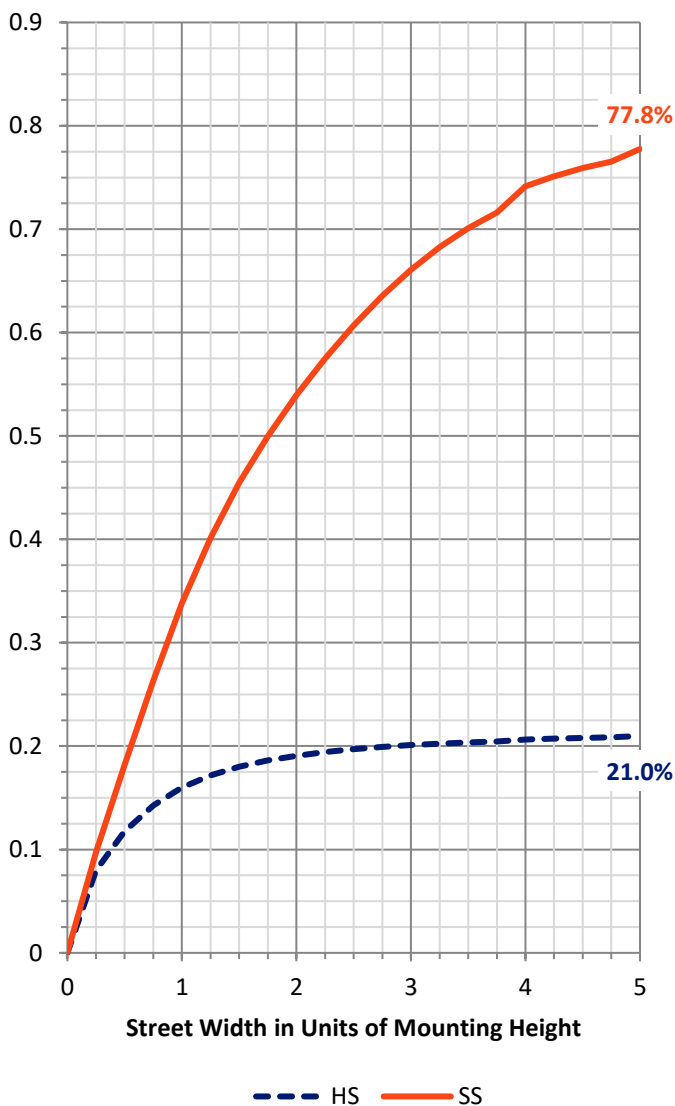
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15123.2	0.0	15123.2
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	55306.8	0.0	55306.8
	% Fixture	78.5	0.0	78.5
Total	Lumens	70430.0	0.0	70430.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	995.6	1.4
10°-20°	2696.5	3.8
20°-30°	4403.7	6.3
30°-40°	6558.2	9.3
40°-50°	9406.2	13.4
50°-60°	12913.3	18.3
60°-70°	16166.9	23.0
70°-80°	14625.4	20.8
80°-90°	2664.1	3.8
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°	70430.0	100.0
0°-180°	70430.0	100.0

Coefficient of Utilization

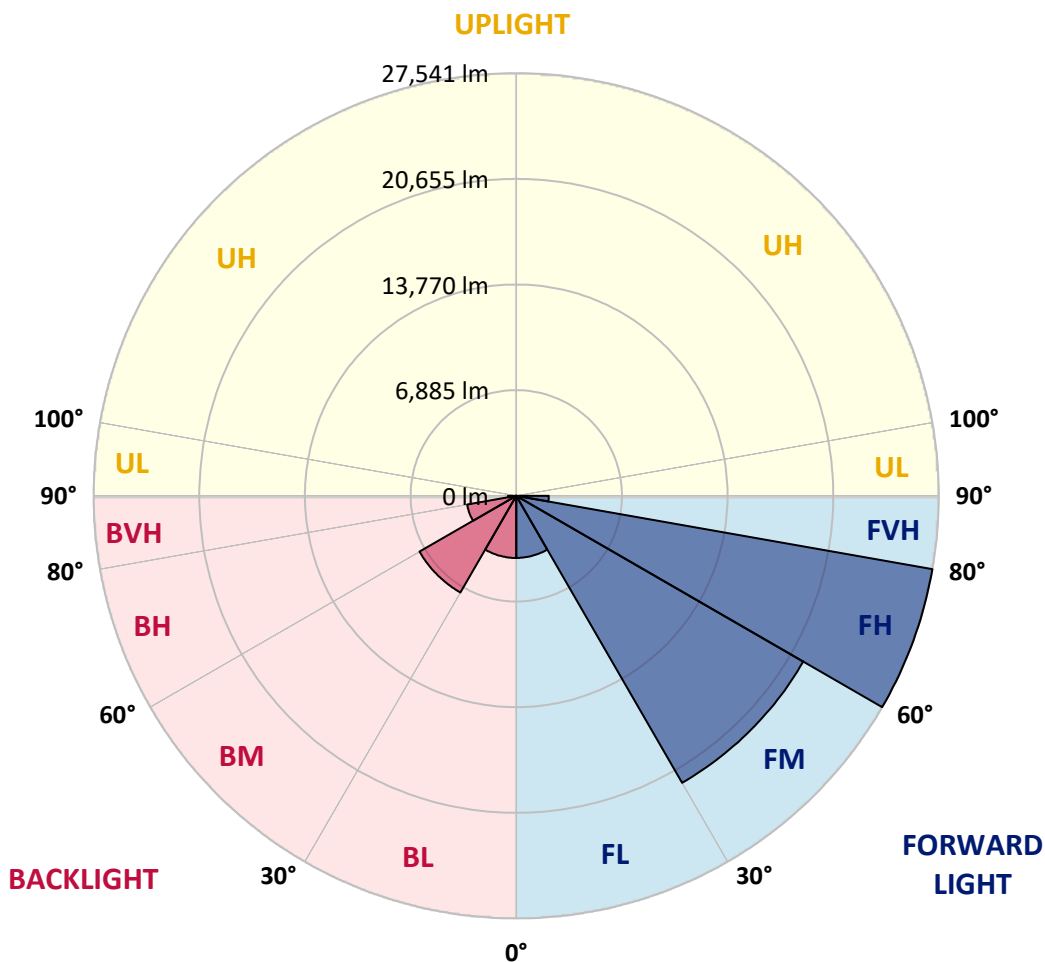


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4045.1	5.7			
FM (30°-60°)	21599.4	30.7			
FH (60°-80°)	27540.6	39.1			G5
FVH (80°-90°)	2121.7	3.0			G5
BL (0°-30°)	4050.7	5.8	B4/5000		
BM (30°-60°)	7278.3	10.3	B4/8500		
BH (60°-80°)	3251.8	4.6	B4/5000		G4/5000
BVH (80°-90°)	542.4	0.8			G4/750
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	11008.6	11008.6	11008.6	11008.6	11008.6	11008.6	11008.6	11008.6	11008.6	11008.6	11008.6
2.5°	10222.8	10183.9	10256.9	10266.6	10329.8	10354.2	10441.8	10578.0	10689.9	10818.8	10935.6
5°	9295.9	9269.1	9371.3	9444.3	9583.0	9641.3	9848.1	10137.6	10395.5	10687.5	10952.6
7.5°	8415.2	8400.6	8514.9	8680.4	8840.9	8921.2	9278.9	9699.7	10130.3	10602.3	11008.6
10°	7673.2	7668.3	7777.8	7940.8	8176.8	8266.8	8729.0	9283.7	9887.1	10536.6	11103.5
12.5°	7257.2	7274.2	7325.3	7461.5	7680.5	7770.5	8283.8	8935.8	9682.7	10514.7	11242.2
15°	7359.3	7386.1	7298.5	7293.7	7449.4	7519.9	8001.6	8687.7	9536.7	10551.2	11444.1
17.5°	7794.8	7799.7	7568.6	7422.6	7517.5	7554.0	7914.0	8546.6	9451.6	10633.9	11697.1
20°	8407.9	8395.7	7987.0	7743.7	7794.8	7804.6	8038.1	8549.0	9444.3	10777.5	12025.5
22.5°	9220.5	9130.5	8580.6	8249.8	8237.6	8223.0	8356.8	8729.0	9551.3	11011.0	12417.2
25°	10281.2	10196.0	9439.4	8986.9	8889.6	8853.1	8872.6	9113.4	9763.0	11261.6	12855.1
27.5°	11461.1	11312.7	10582.9	9943.0	9741.1	9690.0	9573.2	9655.9	9994.1	11502.5	13375.8
30°	12448.8	12368.6	11731.2	10972.1	10733.7	10660.7	10354.2	10264.2	10327.4	11830.9	14032.6
32.5°	13001.1	12947.6	12560.8	11947.7	11726.3	11624.1	11191.1	11011.0	10862.6	12349.1	14923.0
35°	13670.1	13636.1	13402.5	12957.3	12628.9	12521.8	12186.1	11998.8	11616.8	13061.9	16073.8
37.5°	14521.6	14485.1	14490.0	14129.9	13738.3	13638.5	13417.1	13220.1	12594.8	13998.6	17324.3
40°	15485.0	15414.5	15387.7	15370.7	15122.5	15066.6	14949.8	14682.2	13821.0	15117.7	18557.7
42.5°	16935.0	16684.4	16149.2	16351.1	16596.8	16567.6	16662.5	16278.1	15183.4	16441.1	19762.0
45°	18333.9	17922.7	16998.3	17042.0	17579.7	17742.7	18453.1	18180.6	16660.1	17891.1	21007.6
47.5°	18971.3	18659.9	17874.1	17876.5	18409.3	18747.5	20304.5	20109.9	18212.2	19538.1	22528.1
50°	19684.1	19372.7	18667.2	18932.4	19397.0	19757.1	22092.6	21992.9	19689.0	21340.9	24350.3
52.5°	20462.6	19934.7	19487.1	19961.5	20613.5	21031.9	23883.2	23610.7	21044.1	23155.8	26445.0
55°	20472.4	20328.8	20669.4	21017.3	21992.9	22506.2	25758.9	25038.8	22148.6	24939.0	28150.4
57.5°	21637.7	21404.1	22126.7	22287.3	23562.1	24141.1	27624.9	26282.0	23272.6	26306.3	29070.0
60°	23180.1	22980.6	23571.8	23995.1	25503.5	26277.1	29617.4	27559.2	24155.7	27337.8	29026.2
62.5°	25844.1	25617.8	25610.5	26204.1	28235.5	29135.7	31853.2	28812.1	24506.0	27542.2	27787.9
65°	29743.9	29383.8	28705.1	28987.3	32008.9	32906.6	34351.7	29719.6	24043.8	26447.4	24598.5
67.5°	33539.1	33527.0	32692.5	33271.5	36991.3	37711.5	37198.1	29809.6	22601.1	22635.1	18939.7
70°	37322.2	37370.9	37229.8	39244.2	43723.0	44472.3	40229.5	28600.5	19358.1	16346.3	11346.8
72.5°	40319.5	40307.3	41017.7	46211.8	52459.3	52291.5	42783.9	24936.6	13898.8	8823.9	5422.8
75°	38378.1	37954.7	40071.3	49661.6	57551.3	56731.4	40611.4	17394.8	7213.4	4016.6	2919.4
77.5°	25031.5	25432.9	28539.7	41025.0	50340.3	49342.9	29795.0	8116.0	3398.7	2634.8	2116.6
80°	9064.8	9488.1	13363.6	23238.5	34682.6	34519.6	14672.5	3335.4	2299.0	1990.1	1542.4
82.5°	3118.9	3274.6	5272.0	10320.1	19581.9	20311.8	5520.1	1895.2	1671.4	1411.0	1055.9
85°	1223.7	1401.3	2410.9	4965.4	9877.3	9950.3	2235.8	1133.7	1162.9	924.5	579.0
87.5°	464.7	564.4	1153.2	2306.3	4510.5	4143.1	800.4	540.1	661.7	549.8	274.9
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°	11008.6	11008.6	11008.6	11008.6	11008.6	11008.6	11008.6	11008.6	11008.6	11008.6	11008.6
2.5°	11025.6	11076.7	11183.8	11256.8	11334.6	11356.5	11366.2	11385.7	11405.2	11397.9	11400.3
5°	11093.8	11193.5	11366.2	11439.2	11473.3	11434.4	11358.9	11298.1	11254.3	11230.0	11222.7
7.5°	11205.7	11346.8	11531.7	11519.5	11441.6	11268.9	11074.3	10928.3	10806.7	10762.9	10738.6
10°	11354.1	11519.5	11648.4	11509.8	11283.5	10984.3	10692.3	10466.1	10283.6	10213.1	10200.9
12.5°	11543.8	11711.7	11736.0	11441.6	11067.0	10658.3	10261.7	9962.5	9690.0	9602.4	9583.0
15°	11789.5	11947.7	11796.8	11322.4	10799.4	10249.6	9736.2	9329.9	9042.9	8935.8	8896.9
17.5°	12047.4	12198.3	11809.0	11125.4	10449.1	9765.4	9120.7	8704.7	8376.3	8252.2	8237.6
20°	12356.4	12424.5	11757.9	10843.2	9967.3	9137.7	8459.0	8067.3	7892.1	7804.6	7794.8
22.5°	12738.4	12665.4	11641.1	10461.2	9356.7	8412.8	7860.5	7678.0	7634.3	7614.8	7622.1
25°	13142.2	12918.4	11468.4	9962.5	8585.5	7687.8	7422.6	7473.7	7532.1	7524.8	7524.8
27.5°	13587.4	13176.3	11203.2	9300.7	7731.6	7094.2	7125.8	7313.1	7400.7	7398.3	7395.8
30°	14159.1	13468.2	10865.1	8505.2	6933.6	6675.7	6867.9	7096.6	7215.8	7210.9	7213.4
32.5°	14862.2	13789.3	10405.3	7617.2	6357.0	6366.7	6588.1	6814.4	6953.1	6940.9	6943.3
35°	15684.5	14149.4	9782.5	6741.4	5975.1	6121.0	6296.2	6454.3	6585.7	6568.7	6551.6
37.5°	16579.8	14502.2	8955.3	5958.0	5663.7	5892.3	6038.3	6065.1	6125.9	6082.1	6050.5
40°	17431.3	14772.2	7889.7	5315.8	5349.8	5697.7	5792.6	5685.5	5576.1	5561.5	5517.7
42.5°	18173.3	14862.2	6812.0	4802.4	5019.0	5493.4	5551.7	5327.9	5130.9	5038.4	4999.5
45°	18956.7	14893.9	5807.2	4371.8	4700.2	5310.9	5374.1	5074.9	4797.6	4598.1	4532.4
47.5°	19980.9	15122.5	5026.2	4053.1	4457.0	5189.2	5279.3	4873.0	4512.9	4228.3	4167.5
50°	21321.4	15575.0	4391.3	3809.8	4298.8	5109.0	5211.1	4675.9	4279.4	3936.3	3875.5
52.5°	22810.3	15991.1	3877.9	3612.8	4145.6	4967.9	5123.6	4534.8	4060.4	3666.3	3600.6
55°	23851.6	15672.4	3464.4	3408.4	3946.1	4765.9	5001.9	4415.6	3746.6	3403.5	3345.2
57.5°	24051.1	14582.4	3150.5	3196.8	3705.2	4512.9	4814.6	4150.4	3576.3	3289.2	3228.4
60°	23506.1	13064.4	2917.0	3002.1	3447.3	4194.2	4464.3	3963.1	3413.3	3167.6	3116.5
62.5°	22136.4	11509.8	2744.2	2827.0	3206.5	3870.6	4245.3	3766.0	3247.8	3028.9	2977.8
65°	19370.3	9663.2	2578.8	2671.3	2982.7	3590.9	4048.2	3583.6	3084.8	2917.0	2868.3
67.5°	14621.4	7237.7	2423.1	2505.8	2783.2	3347.6	3834.2	3403.5	2926.7	2819.7	2761.3
70°	8609.8	4532.4	2245.5	2333.1	2573.9	3094.6	3605.5	3206.5	2729.6	2681.0	2605.6
72.5°	4006.9	2727.2	2043.6	2128.7	2311.2	2756.4	3311.1	2948.6	2496.1	2389.0	2286.9
75°	2391.5	1994.9	1805.2	1880.6	2009.5	2396.3	2941.3	2685.9	2274.7	2133.6	2026.6
77.5°	1788.1	1525.4	1542.4	1622.7	1727.3	2097.1	2605.6	2479.1	2104.4	1994.9	1921.9
80°	1287.0	1158.0	1257.8	1345.4	1454.8	1907.3	2496.1	2291.7	1902.5	1756.5	1688.4
82.5°	858.8	832.0	946.4	1036.4	1143.4	1668.9	2345.3	2007.1	1625.1	1440.2	1289.4
85°	474.4	501.2	637.4	676.3	768.8	1175.1	1921.9	1613.0	1223.7	985.3	941.5
87.5°	197.1	231.1	343.0	330.9	408.7	700.7	1265.1	973.1	778.5	581.4	452.5
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)