

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: P322554

Luminaire Tested: **GAN-SA0A-740-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322554
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32758 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

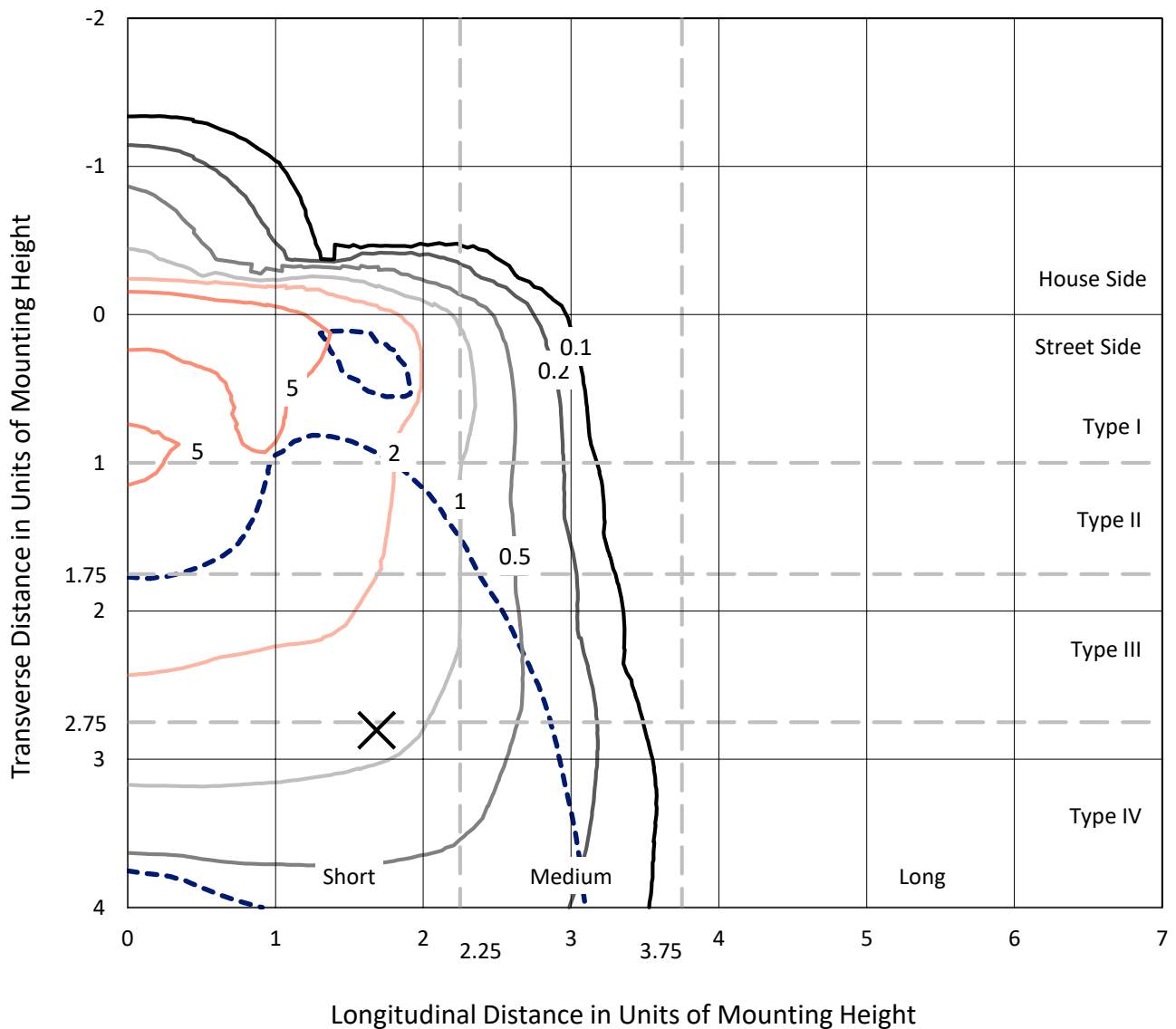
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

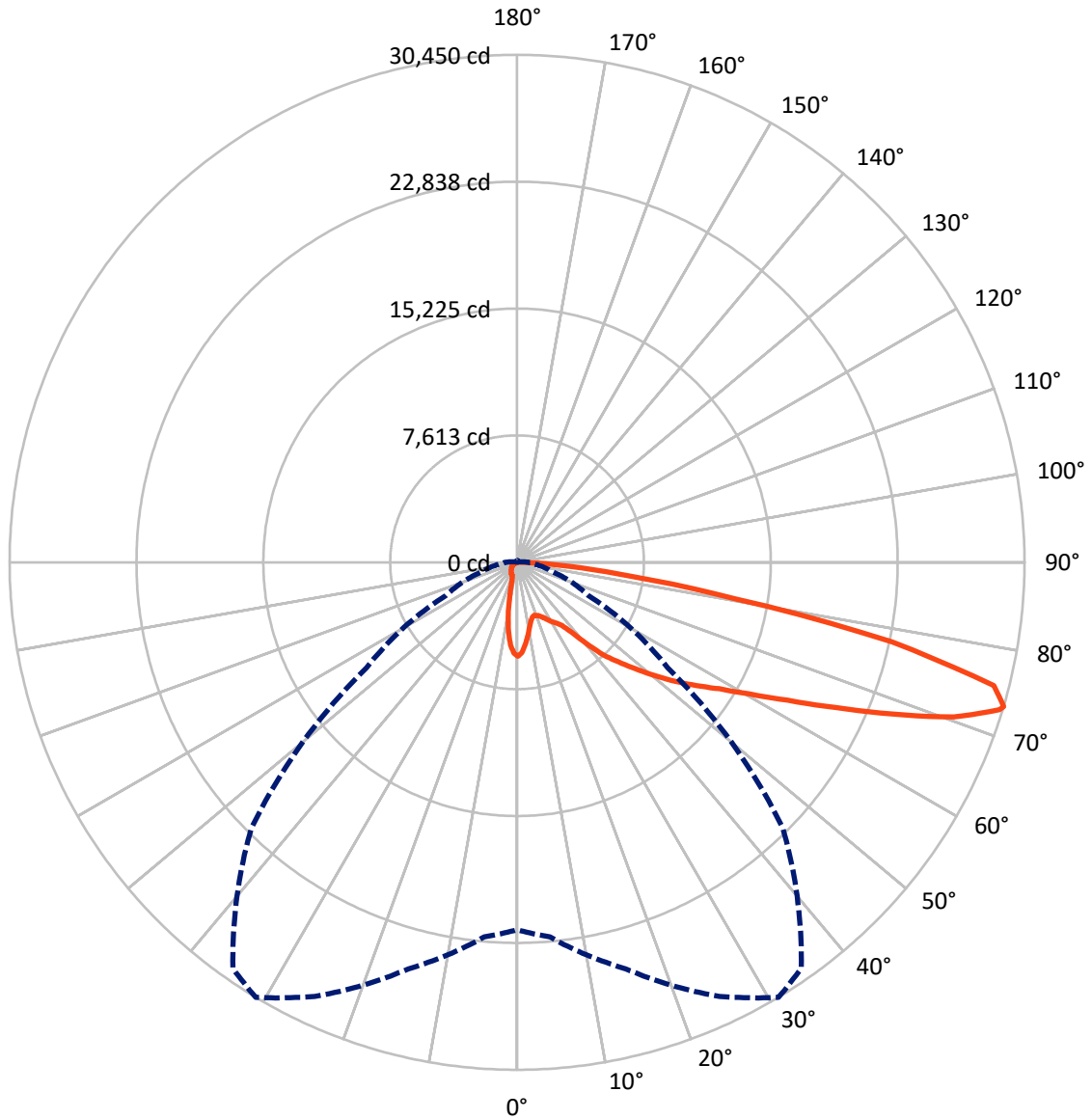
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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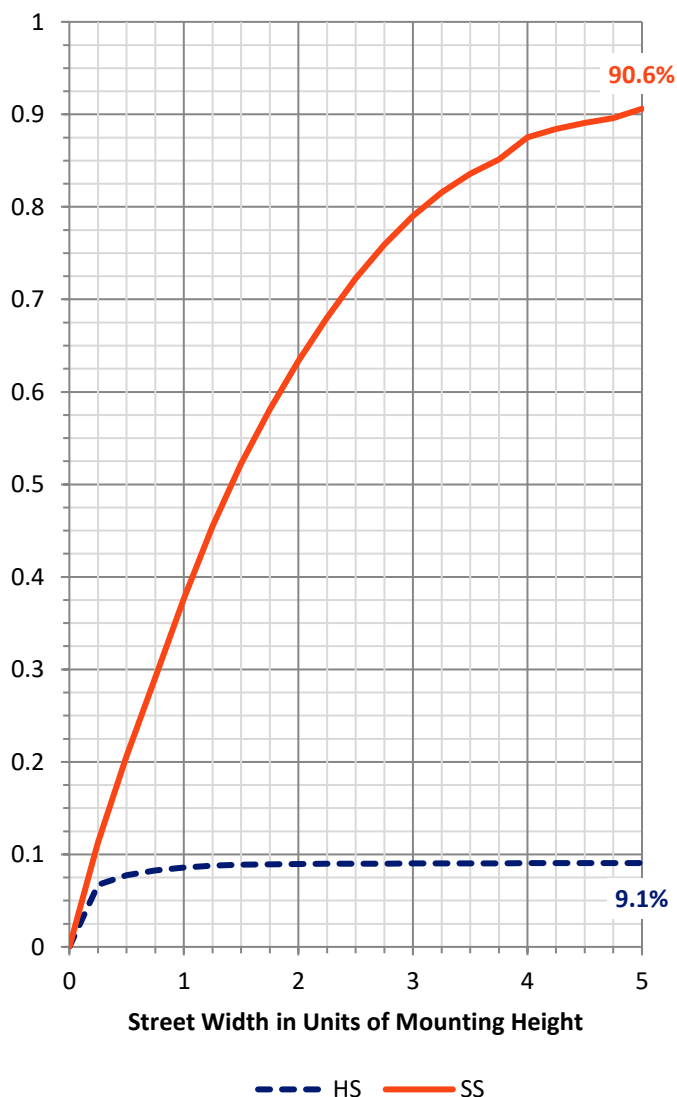
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2986.0	0.0	2986.0
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	29772.0	0.0	29772.0
	% Fixture	90.9	0.0	90.9
Total	Lumens	32758.0	0.0	32758.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.3	1.4
10°-20°	1014.7	3.1
20°-30°	1520.3	4.6
30°-40°	2418.7	7.4
40°-50°	4319.2	13.2
50°-60°	6702.2	20.5
60°-70°	8909.6	27.2
70°-80°	6701.8	20.5
80°-90°	704.2	2.1
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°	32758.0	100.0
0°-180°	32758.0	100.0

Coefficient of Utilization



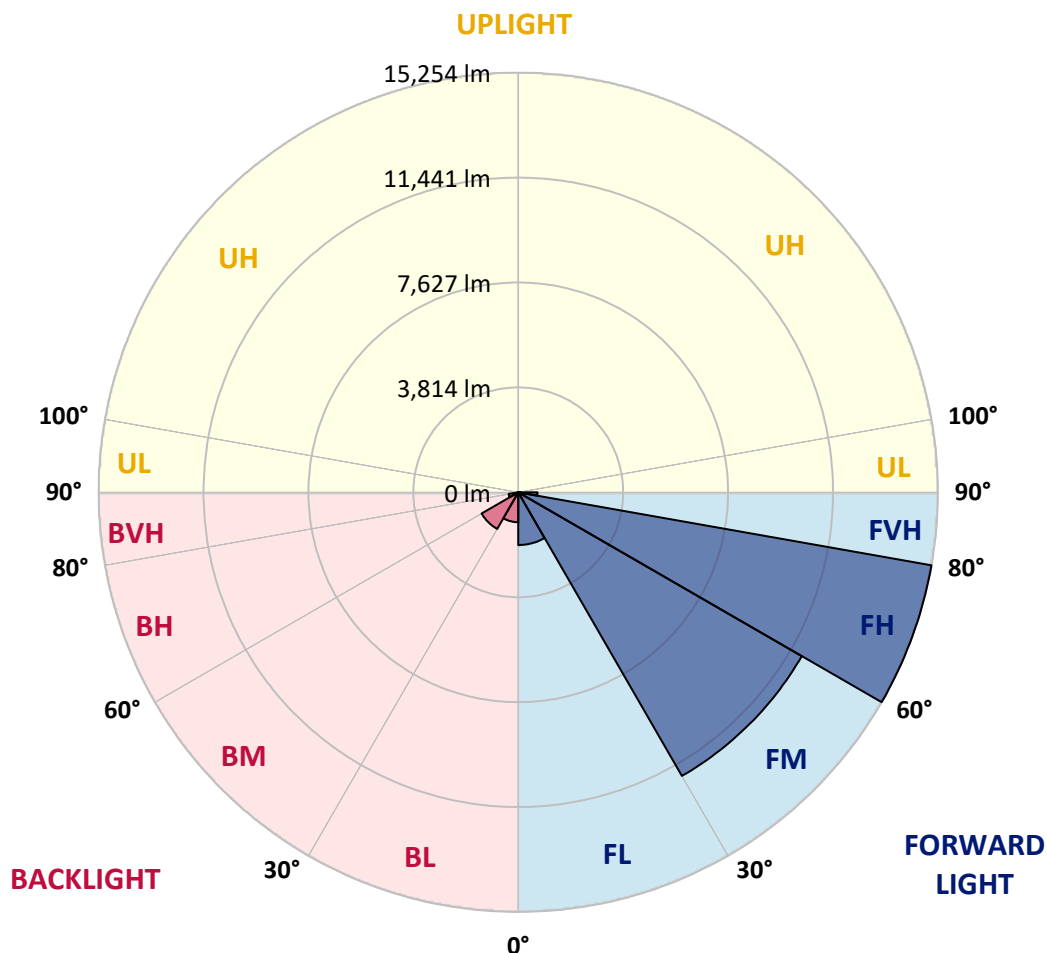
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1916.4	5.9			
FM (30°-60°)	11903.1	36.3			
FH (60°-80°)	15254.2	46.6			G5
FVH (80°-90°)	698.3	2.1			G4/750
BL (0°-30°)	1085.8	3.3	B3/2500		
BM (30°-60°)	1537.0	4.7	B2/2500		
BH (60°-80°)	357.3	1.1	B1/500		G1/500
BVH (80°-90°)	5.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	5636.1	5636.1	5636.1	5636.1	5636.1	5636.1	5636.1	5636.1	5636.1	5636.1	5636.1
2.5°	5341.1	5363.6	5387.6	5392.4	5432.5	5434.1	5491.8	5535.1	5578.4	5620.1	5634.5
5°	4792.9	4829.8	4873.1	4916.3	5001.3	5035.0	5176.0	5320.3	5458.2	5589.6	5653.7
7.5°	4207.8	4249.5	4310.4	4417.8	4512.4	4578.1	4800.9	5057.4	5313.9	5555.9	5695.4
10°	3674.0	3712.5	3776.6	3890.4	4036.3	4126.1	4425.8	4781.7	5158.4	5525.5	5757.9
12.5°	3334.2	3355.0	3390.3	3512.1	3643.6	3744.6	4097.2	4538.0	5030.2	5523.9	5858.9
15°	3271.7	3278.1	3249.2	3303.7	3406.3	3504.1	3861.6	4340.9	4932.4	5549.5	5990.3
17.5°	3371.1	3367.9	3271.7	3265.3	3347.0	3427.2	3746.2	4204.6	4863.4	5608.8	6160.3
20°	3521.7	3510.5	3343.8	3313.4	3399.9	3475.3	3738.2	4153.3	4837.8	5708.2	6367.0
22.5°	3722.1	3702.9	3441.6	3409.5	3502.5	3581.1	3837.5	4203.0	4860.2	5841.3	6607.5
25°	3970.6	3941.7	3609.9	3574.6	3669.2	3747.8	4015.5	4345.7	4927.6	6003.2	6912.1
27.5°	4251.1	4209.4	3879.2	3787.8	3895.2	3977.0	4252.7	4563.7	5033.4	6174.7	7285.5
30°	4515.6	4461.1	4162.9	4012.3	4143.7	4235.1	4509.2	4823.4	5203.3	6439.2	7796.9
32.5°	4781.7	4720.8	4416.2	4236.7	4355.3	4454.7	4773.7	5180.8	5522.3	6843.1	8476.6
35°	5394.0	5329.9	4956.4	4659.9	4658.3	4714.4	5144.0	5669.7	5943.9	7405.8	9287.7
37.5°	6424.7	6387.9	6032.0	5469.4	5318.7	5256.2	5648.9	6253.2	6549.8	8180.0	10203.0
40°	7553.2	7521.2	7122.0	6612.3	6383.1	6229.2	6373.5	7065.9	7405.8	9125.8	11137.5
42.5°	8827.6	8675.3	7963.6	7811.3	7606.1	7489.1	7359.3	8067.8	8457.3	10154.9	12064.0
45°	9985.0	9728.5	8805.2	8574.3	8527.9	8556.7	8628.8	9414.3	9640.3	11378.0	12987.4
47.5°	10674.3	10472.3	9763.8	9542.5	9529.7	9720.5	10265.5	10935.5	10818.5	12443.9	13800.1
50°	11329.9	11147.1	10558.8	10613.3	10672.6	10932.3	12123.3	12500.0	11894.1	13410.5	14545.4
52.5°	11860.5	11581.5	11273.8	11579.9	11871.7	12290.1	14040.5	13904.3	12657.1	14180.0	15183.4
55°	12166.6	12040.0	12189.1	12496.8	13045.1	13724.7	15850.3	15072.8	13215.0	14882.1	15608.2
57.5°	13288.7	13040.3	13336.8	13602.9	14317.8	15268.4	17400.4	15943.2	13617.3	15316.5	15706.0
60°	14646.4	14446.1	14620.8	15063.2	16028.2	17145.5	18849.5	16653.4	13827.3	15595.4	15452.7
62.5°	16807.3	16542.8	16433.8	16929.1	18208.3	19428.1	19949.1	17145.5	13780.8	15472.0	14583.9
65°	19702.2	19428.1	18940.8	19389.7	21016.7	21877.5	21178.6	17249.7	13460.2	14473.3	12387.8
67.5°	22667.8	22469.0	22052.2	22808.8	24277.1	24554.5	22478.6	16996.4	12427.9	11735.4	8752.3
70°	24626.6	24541.6	24812.5	26486.1	27795.7	27715.5	23671.2	15635.5	9686.8	7216.6	4329.7
72.5°	23214.4	23621.5	25622.0	28656.5	30256.3	29602.2	23058.9	12006.3	5536.7	2776.4	1251.9
73°	22044.2	22565.2	25258.2	28738.2	30450.2	29733.7	22544.3	11020.5	4719.2	2191.3	949.0
75°	15335.7	15975.3	20910.9	26765.0	29542.9	28329.5	18791.7	6745.3	2186.5	971.4	383.1
77.5°	7445.8	7918.7	11514.2	19338.4	22975.5	22134.0	11698.6	2513.5	987.4	607.5	176.3
80°	2779.6	3090.5	4998.1	9842.3	13277.5	13625.3	5145.6	950.6	657.2	488.9	89.8
82.5°	727.8	811.1	1843.4	4389.0	6804.7	7122.0	1622.2	479.3	480.9	402.3	54.5
85°	232.4	266.1	575.5	1970.1	3206.0	2814.8	423.2	232.4	349.4	299.8	30.5
87.5°	28.9	36.9	182.7	463.3	706.9	392.7	65.7	68.9	149.1	166.7	17.6
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°	5636.1	5636.1	5636.1	5636.1	5636.1	5636.1	5636.1	5636.1	5636.1	5636.1	5636.1
2.5°	5648.9	5640.9	5642.5	5600.8	5573.6	5519.1	5463.0	5437.3	5410.1	5398.8	5410.1
5°	5677.8	5663.3	5621.7	5493.4	5357.2	5180.8	5015.7	4890.7	4733.6	4690.3	4735.2
7.5°	5722.6	5693.8	5572.0	5310.7	5007.7	4671.1	4292.8	4017.1	3791.0	3645.2	3698.1
10°	5788.4	5733.9	5488.6	5044.6	4502.8	3906.5	3369.5	2951.1	2654.5	2532.7	2527.9
12.5°	5899.0	5796.4	5386.0	4698.3	3885.6	3090.5	2386.8	1933.2	1692.7	1537.3	1534.1
15°	6020.8	5870.1	5256.2	4283.2	3167.5	2213.7	1537.3	1192.6	1037.1	987.4	981.0
17.5°	6169.9	5955.1	5087.9	3771.8	2415.7	1466.7	1003.5	904.1	897.7	892.9	892.9
20°	6357.4	6056.1	4871.5	3186.7	1713.6	979.4	852.8	859.2	862.4	856.0	857.6
22.5°	6575.4	6158.7	4613.4	2558.4	1159.0	819.1	815.9	823.9	827.1	823.9	825.5
25°	6828.7	6277.3	4299.2	1899.5	836.8	777.4	785.5	796.7	804.7	804.7	804.7
27.5°	7142.9	6421.5	3920.9	1325.7	722.9	734.2	756.6	777.4	788.7	791.9	791.9
30°	7551.6	6601.1	3467.2	908.9	657.2	676.5	718.1	758.2	779.0	782.3	783.9
32.5°	8067.8	6803.1	2941.5	671.6	601.1	615.5	660.4	727.8	767.8	774.2	774.2
35°	8659.3	7037.1	2375.6	585.1	561.0	565.9	601.1	678.1	748.6	766.2	767.8
37.5°	9306.9	7267.9	1806.6	546.6	527.4	527.4	553.0	618.8	702.1	756.6	763.0
40°	9911.2	7407.4	1266.4	516.2	496.9	496.9	519.4	567.5	646.0	727.8	745.4
42.5°	10469.1	7455.5	881.6	487.3	468.1	472.9	492.1	530.6	589.9	671.6	687.7
45°	11042.9	7447.4	642.8	453.6	439.2	453.6	468.1	496.9	540.2	586.7	589.9
47.5°	11475.7	7380.1	509.7	421.6	412.0	431.2	444.0	463.3	487.3	484.1	484.1
50°	11881.3	7216.6	410.4	378.3	384.7	407.2	413.6	420.0	421.6	391.1	387.9
52.5°	12189.1	6961.7	328.6	331.8	357.5	379.9	373.5	363.9	347.8	311.0	304.6
55°	12291.7	6471.2	258.1	274.1	317.4	346.2	322.2	301.4	270.9	240.4	234.0
57.5°	12105.7	5838.1	210.0	213.2	267.7	291.7	264.5	240.4	206.8	181.1	176.3
60°	11711.4	5134.3	173.1	160.3	206.8	227.6	210.0	185.9	155.5	136.3	134.7
62.5°	10929.1	4384.2	142.7	125.0	157.1	174.7	163.5	145.9	120.2	107.4	105.8
65°	9284.5	3507.3	115.4	101.0	121.8	136.3	126.6	113.8	94.6	85.0	83.4
67.5°	6480.9	2370.8	94.6	83.4	96.2	107.4	99.4	93.0	75.3	73.7	75.3
70°	3125.8	1142.9	78.5	67.3	75.3	83.4	80.1	75.3	72.1	83.4	96.2
72.5°	896.1	383.1	62.5	56.1	60.9	65.7	68.9	67.3	78.5	101.0	117.0
73°	689.3	309.4	59.3	52.9	57.7	64.1	67.3	65.7	80.1	102.6	117.0
75°	294.9	149.1	44.9	43.3	48.1	56.1	59.3	59.3	80.1	104.2	112.2
77.5°	133.0	80.1	28.9	33.7	41.7	44.9	49.7	49.7	64.1	80.1	80.1
80°	75.3	43.3	22.4	25.6	30.5	30.5	30.5	27.3	28.9	32.1	35.3
82.5°	48.1	28.9	17.6	20.8	19.2	16.0	12.8	12.8	11.2	12.8	16.0
85°	27.3	16.0	16.0	12.8	8.0	6.4	8.0	6.4	1.6	0.0	1.6
87.5°	16.0	9.6	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)