

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: P317452

Luminaire Tested: **GAN-SA8C-740-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59056 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

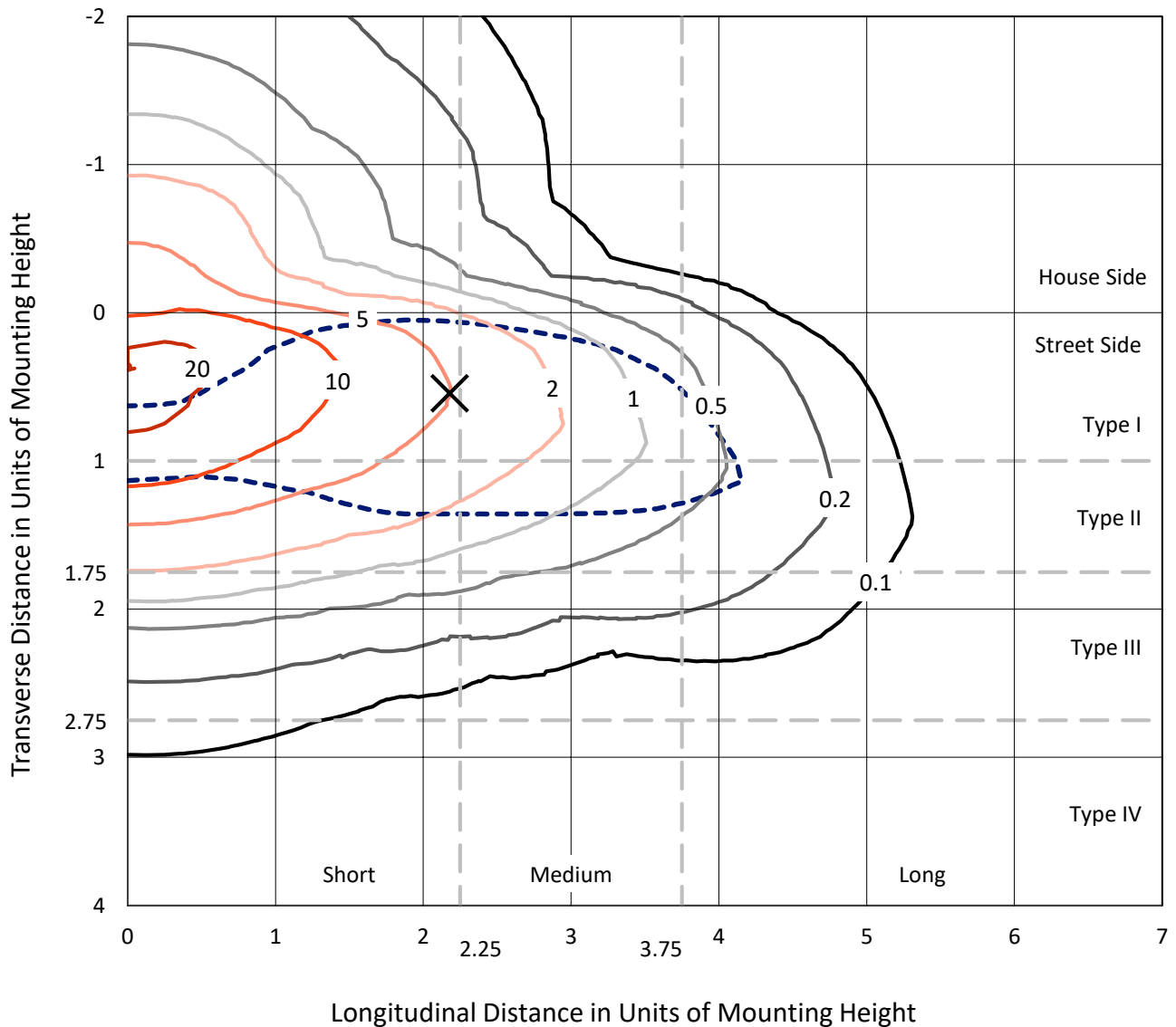
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

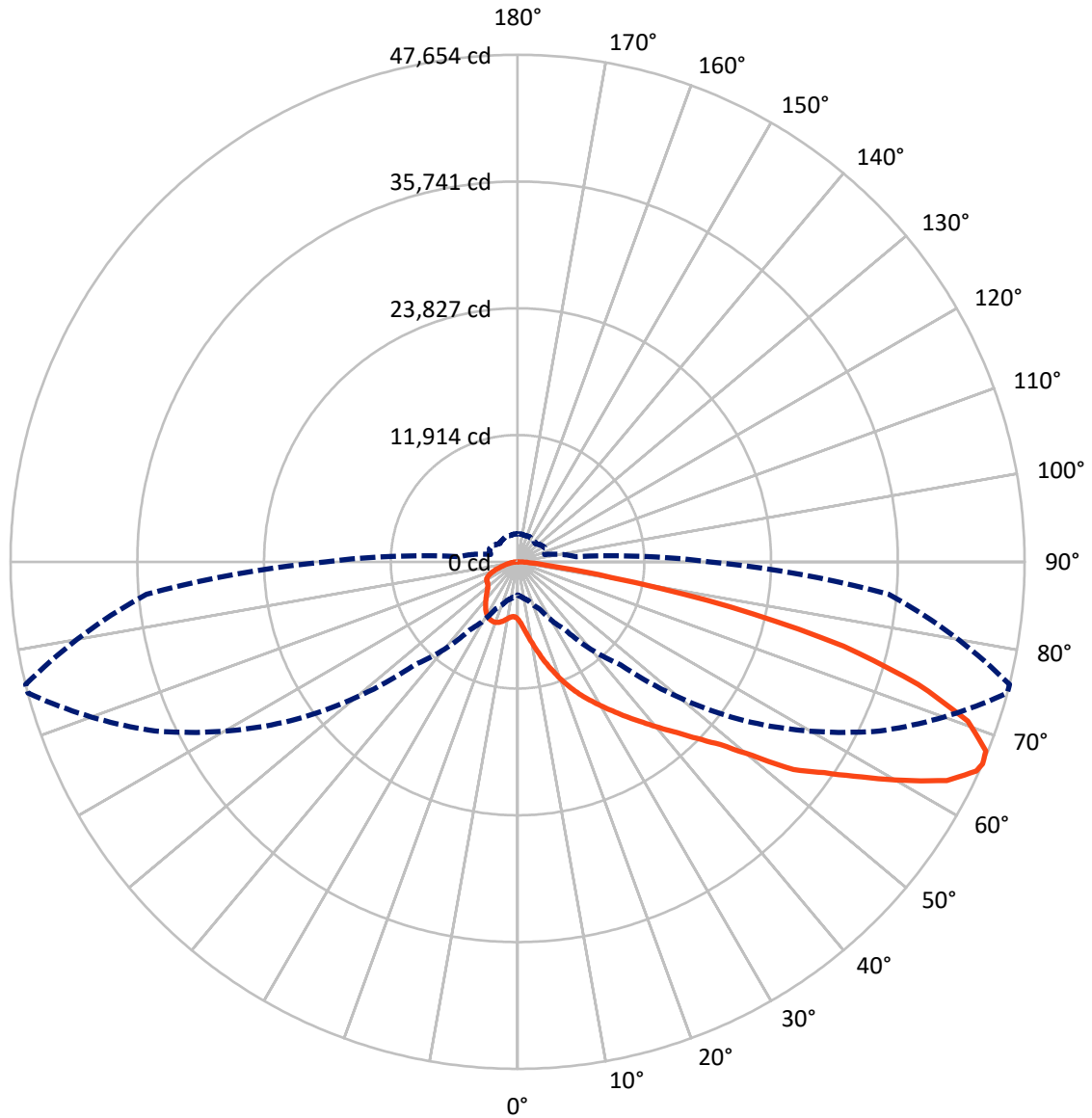
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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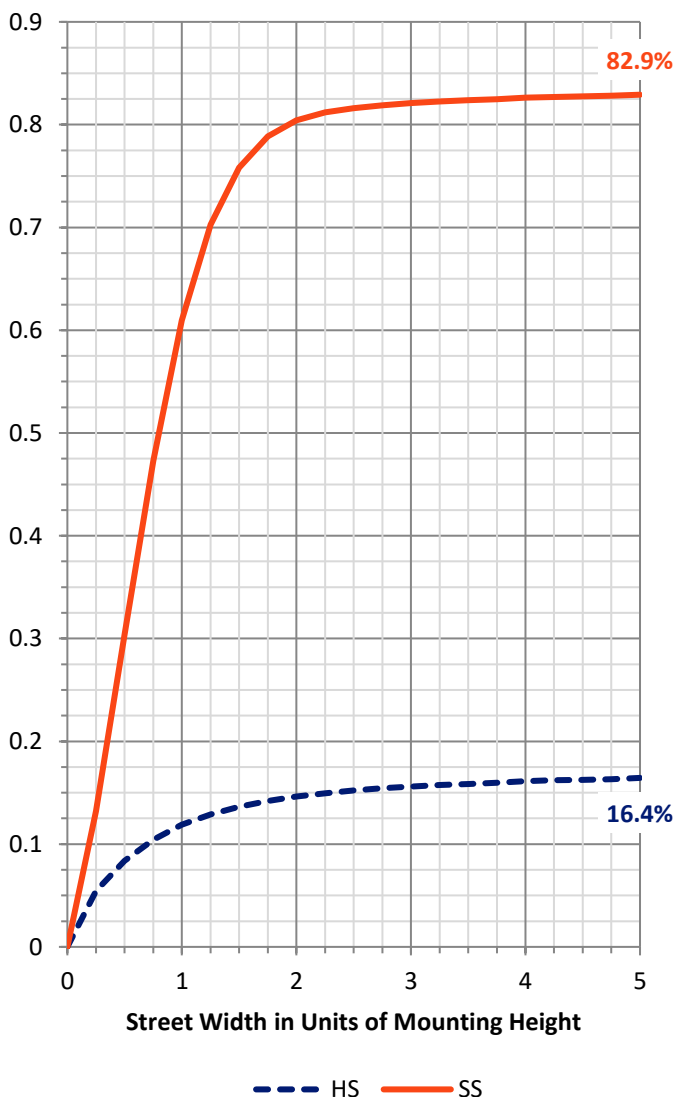
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9937.1	0.0	9937.1
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	49118.9	0.0	49118.9
	% Fixture	83.2	0.0	83.2
Total	Lumens	59056.0	0.0	59056.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	652.2	1.1
10°-20°	2575.4	4.4
20°-30°	5004.6	8.5
30°-40°	8168.7	13.8
40°-50°	11160.4	18.9
50°-60°	12999.6	22.0
60°-70°	11654.4	19.7
70°-80°	5889.6	10.0
80°-90°	951.1	1.6
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°	59056.0	100.0
0°-180°	59056.0	100.0

Coefficient of Utilization

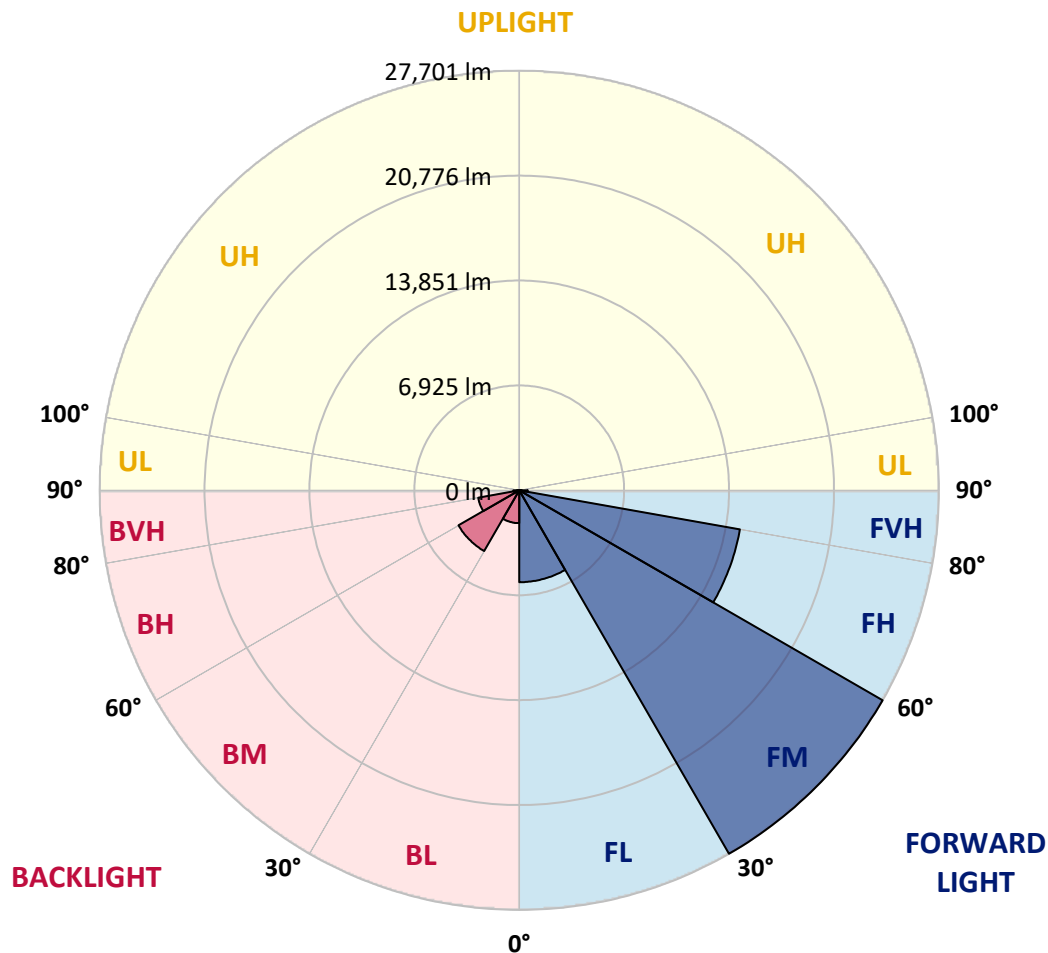


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6064.9	10.3			
FM (30°-60°)	27701.4	46.9			
FH (60°-80°)	14791.0	25.0			G5
FVH (80°-90°)	561.7	1.0			G4/750
BL (0°-30°)	2167.3	3.7	B3/2500		
BM (30°-60°)	4627.3	7.8	B3/5000		
BH (60°-80°)	2753.0	4.7	B4/5000		G4/5000
BVH (80°-90°)	389.4	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-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5393.1	5393.1	5393.1	5393.1	5393.1	5393.1	5393.1	5393.1	5393.1	5393.1	5393.1
2.5°	7159.4	7051.2	7041.2	6882.8	6846.7	6543.9	6321.4	6088.8	5824.2	5772.1	5563.6
5°	9196.4	9186.4	9048.1	8789.4	8586.9	8069.7	7558.4	7017.1	6423.7	6327.4	5858.3
7.5°	11028.9	11012.8	10906.6	10627.9	10335.2	9699.6	8969.9	8139.8	7177.5	7035.1	6257.3
10°	12420.3	12414.3	12378.2	12173.7	11925.1	11315.6	10509.6	9376.9	8053.6	7859.2	6756.5
12.5°	13494.9	13506.9	13531.0	13458.8	13340.5	12821.2	11995.2	10688.1	8987.9	8795.4	7311.8
15°	14222.7	14258.8	14383.1	14485.3	14547.5	14228.7	13428.7	12029.3	10034.5	9803.9	7927.3
17.5°	14589.6	14629.7	14844.2	15152.9	15437.6	15405.5	14770.0	13308.4	11038.9	10816.4	8588.9
20°	14906.3	14936.4	15177.0	15547.9	16051.1	16273.7	15916.8	14539.4	12139.6	11874.9	9290.6
22.5°	15824.6	15862.7	15934.8	16145.4	16590.4	16999.4	16827.0	15704.3	13148.0	12901.4	9956.3
25°	17596.9	17643.0	17486.6	17308.2	17392.4	17677.1	17709.2	16766.9	14170.5	13891.9	10672.0
27.5°	19732.1	19798.3	19531.6	19072.5	18671.5	18561.2	18523.1	17637.0	15146.9	14824.1	11379.7
30°	21823.2	21937.5	21590.6	20995.2	20259.4	19742.1	19359.2	18489.1	16109.3	15800.5	12047.4
32.5°	23866.2	23820.1	23316.8	22735.4	21873.3	21225.7	20299.5	19403.3	17191.9	16837.0	12711.0
35°	25265.6	25281.6	24814.5	24124.8	23302.8	22805.6	21558.5	20389.7	18296.6	17969.8	13464.8
37.5°	26456.5	26382.3	25853.0	25209.4	24501.7	24289.2	23032.1	21476.3	19493.5	19136.6	14266.8
40°	26853.5	26767.2	26420.4	25957.3	25389.9	25371.8	24658.1	22707.3	20846.8	20494.0	15171.0
42.5°	26612.9	26502.6	26360.2	26233.9	26059.5	26139.7	26185.8	24150.9	22334.4	21939.5	16217.5
45°	25724.7	25558.3	25658.5	25933.2	26312.1	26765.2	27565.2	25748.8	24000.5	23669.7	17446.5
47.5°	24359.4	24209.0	24521.8	25109.2	26139.7	27286.5	28870.4	27513.1	25989.3	25660.5	19196.8
50°	22438.7	22482.8	22929.9	23998.5	25556.3	27527.1	30478.3	29848.8	28880.4	28573.6	21584.6
52.5°	19287.0	19295.0	20554.1	22308.4	24521.8	27402.8	31370.5	32834.0	32828.0	32457.1	23858.1
55°	16359.9	16538.3	17534.7	19866.4	22845.7	26905.6	31994.0	34285.6	35420.3	34985.3	25977.3
57.5°	13500.9	13605.2	14549.5	16891.2	20453.9	25580.3	32633.5	36027.8	38407.6	38132.9	28611.7
60°	10249.0	10409.4	11385.8	13549.0	17394.4	23228.6	32693.7	37846.2	41978.3	41701.6	31552.9
62.5°	6652.2	6928.9	7843.1	9870.1	13693.4	19846.4	31298.3	39035.1	45362.6	45264.3	34163.3
65°	3823.3	4031.8	4667.4	6231.2	9447.0	15600.0	27980.2	38578.0	47445.6	47389.5	35139.6
66°	3123.6	3253.9	3741.1	4869.9	7795.0	13699.4	26051.5	37613.7	47652.1	47654.1	35027.4
67.5°	2498.1	2556.2	2774.8	3486.5	5752.0	10858.5	22605.1	35486.5	47395.5	47465.7	34303.6
70°	2067.0	2097.1	2165.3	2337.7	3139.7	6548.0	16045.1	29959.0	44819.2	44873.4	31478.7
72.5°	1854.5	1872.6	1898.6	1922.7	2215.4	3658.9	9799.9	23966.4	39295.8	39365.9	27174.2
75°	1680.1	1690.1	1686.1	1688.1	1858.5	2331.7	5064.3	17893.6	31773.4	31633.1	20816.7
77.5°	1475.6	1485.6	1465.6	1469.6	1644.0	1792.4	2520.1	12526.5	21442.3	20451.8	11728.6
80°	1247.0	1255.1	1247.0	1261.1	1431.5	1353.3	1465.6	7047.2	9481.1	8967.9	4170.2
82.5°	942.3	976.4	1000.4	1056.6	1178.9	962.3	980.4	2744.7	2887.0	2748.7	1279.1
85°	413.0	503.2	753.8	808.0	886.2	577.4	643.6	1118.7	1174.9	1138.8	465.1
87.5°	108.3	118.3	372.9	469.1	491.2	260.6	334.8	509.2	537.3	509.2	154.4
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°	5393.1	5393.1	5393.1	5393.1	5393.1	5393.1	5393.1	5393.1	5393.1	5393.1	5393.1
2.5°	5453.3	5355.1	5178.6	5022.2	4904.0	4823.8	4743.6	4703.5	4679.4	4655.3	4659.4
5°	5627.7	5429.2	5126.5	4912.0	4791.7	4715.5	4675.4	4659.4	4649.3	4625.3	4625.3
7.5°	5890.4	5609.7	5192.7	4972.1	4877.9	4819.7	4795.7	4787.7	4775.6	4747.6	4751.6
10°	6221.2	5828.2	5331.0	5116.5	5030.3	4966.1	4932.0	4920.0	4897.9	4865.9	4869.9
12.5°	6610.1	6098.9	5513.4	5288.9	5184.6	5098.4	5042.3	5008.2	4970.1	4928.0	4930.0
15°	7035.1	6393.6	5709.9	5443.3	5300.9	5180.6	5090.4	5032.3	4972.1	4920.0	4918.0
17.5°	7466.2	6678.3	5860.3	5527.5	5335.0	5176.6	5054.3	4964.1	4889.9	4825.8	4819.7
20°	7931.3	6934.9	5944.5	5519.5	5270.8	5082.4	4920.0	4807.7	4725.5	4661.4	4651.3
22.5°	8404.5	7175.5	5958.5	5437.3	5128.5	4897.9	4727.5	4603.2	4519.0	4452.9	4428.8
25°	8837.5	7361.9	5900.4	5278.9	4930.0	4681.4	4515.0	4388.7	4320.5	4242.3	4218.3
27.5°	9232.5	7492.3	5784.1	5076.4	4707.5	4462.9	4306.5	4198.2	4124.1	4063.9	4043.9
30°	9587.4	7562.4	5593.6	4835.8	4478.9	4256.4	4124.1	4049.9	3985.7	3909.5	3895.5
32.5°	9924.2	7562.4	5349.0	4573.1	4252.4	4073.9	3995.7	3949.6	3877.5	3803.3	3783.2
35°	10261.0	7516.3	5060.3	4298.5	4043.9	3943.6	3939.6	3885.5	3775.2	3675.0	3648.9
37.5°	10615.9	7422.1	4735.5	4041.9	3873.4	3885.5	3919.6	3799.3	3642.9	3500.5	3462.4
40°	11016.9	7291.8	4398.7	3819.3	3731.1	3859.4	3865.4	3675.0	3370.2	3239.9	3205.8
42.5°	11488.0	7161.5	4086.0	3622.8	3618.8	3781.2	3763.2	3406.3	3223.9	3157.7	3139.7
45°	12107.5	7087.3	3789.2	3436.4	3530.6	3654.9	3588.7	3257.9	3181.8	3143.7	3127.6
47.5°	13083.9	7125.4	3516.6	3288.0	3442.4	3528.6	3264.0	3197.8	3143.7	3097.5	3081.5
50°	14306.9	7103.3	3296.0	3185.8	3342.1	3396.3	3117.6	3119.6	3091.5	3039.4	3015.3
52.5°	15227.1	6930.9	3153.7	3127.6	3253.9	3161.7	3025.4	3043.4	3029.4	2953.2	2927.1
55°	16115.3	6782.5	3081.5	3105.6	3189.8	2869.0	2917.1	2961.2	2947.2	2873.0	2861.0
57.5°	17220.0	6754.5	3037.4	3111.6	3135.6	2722.6	2812.9	2871.0	2861.0	2828.9	2822.9
60°	18573.3	6762.5	2997.3	3121.6	3075.5	2614.4	2714.6	2788.8	2794.8	2788.8	2784.8
62.5°	19317.1	6543.9	2897.1	3093.5	2969.2	2520.1	2612.4	2720.6	2722.6	2734.7	2732.7
65°	18685.5	5890.4	2710.6	2995.3	2790.8	2442.0	2524.2	2642.4	2612.4	2666.5	2666.5
66°	18072.0	5513.4	2618.4	2931.1	2714.6	2411.9	2496.1	2602.3	2564.2	2638.4	2638.4
67.5°	16819.0	4877.9	2452.0	2794.8	2606.4	2369.8	2464.0	2536.2	2484.1	2594.3	2586.3
70°	14529.4	3773.2	2117.2	2486.1	2427.9	2307.6	2419.9	2403.9	2327.7	2496.1	2464.0
72.5°	12249.9	2867.0	1700.1	2081.1	2157.3	2229.4	2357.7	2235.4	2139.2	2257.5	2187.3
75°	9505.2	2155.3	1343.3	1617.9	1822.4	2107.1	2283.6	2041.0	1902.6	1890.6	1852.5
77.5°	5138.5	1479.6	1064.6	1235.0	1447.5	1954.8	2233.4	1832.5	1624.0	1575.8	1545.8
80°	2035.0	962.3	773.9	936.3	1012.5	1734.2	2113.2	1589.9	1339.3	1291.1	1245.0
82.5°	840.0	569.4	499.2	627.5	659.6	1483.6	1896.6	1303.2	1034.5	1431.5	1519.7
85°	360.9	312.8	296.7	324.8	372.9	1040.5	1509.7	994.4	1116.7	996.4	791.9
87.5°	108.3	132.3	126.3	124.3	136.3	248.6	804.0	553.3	820.0	310.8	232.6
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)