

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: P317482

Luminaire Tested: **GAN-SA8B-750-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317482
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-SA8B-750-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47713 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

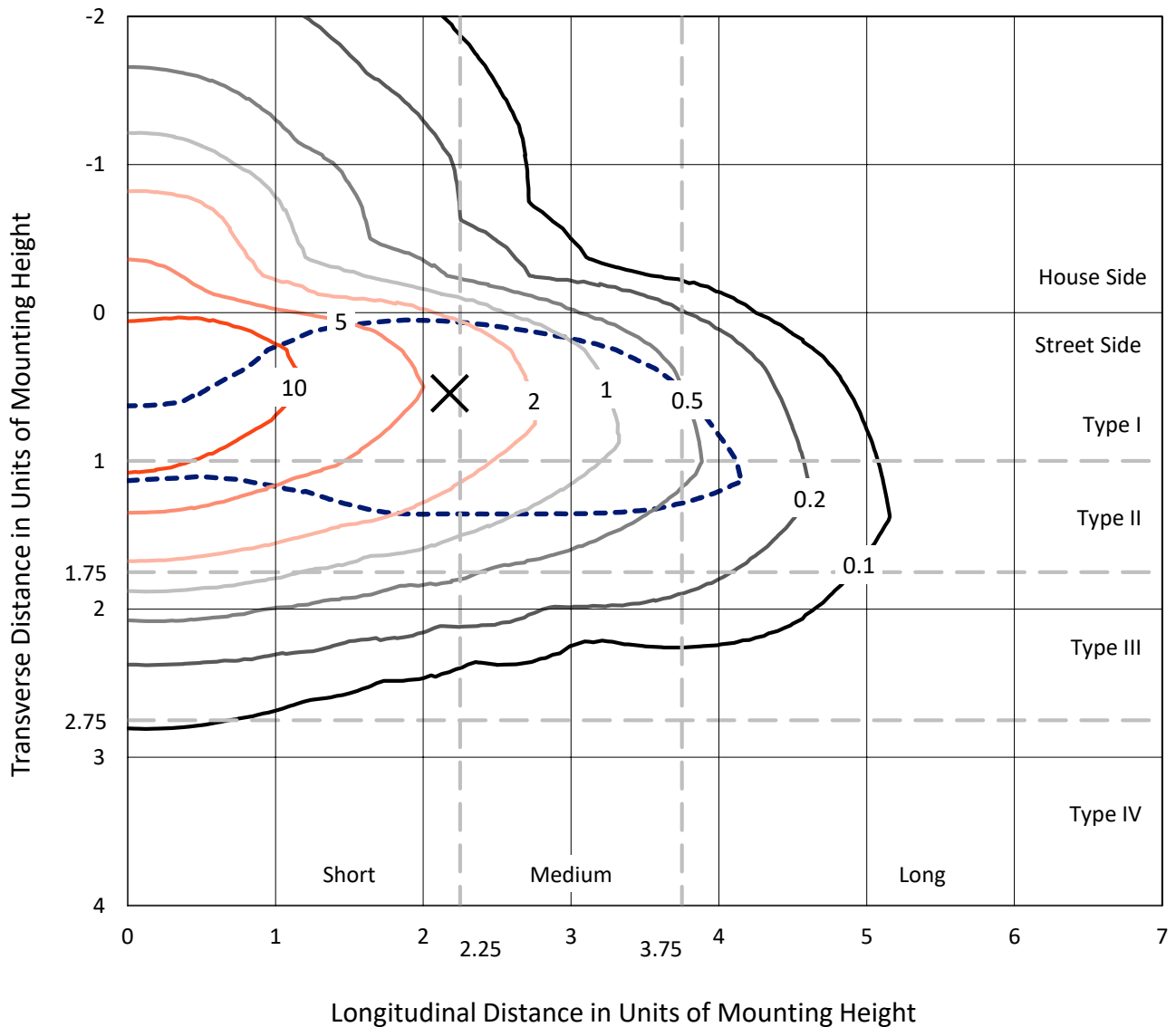
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

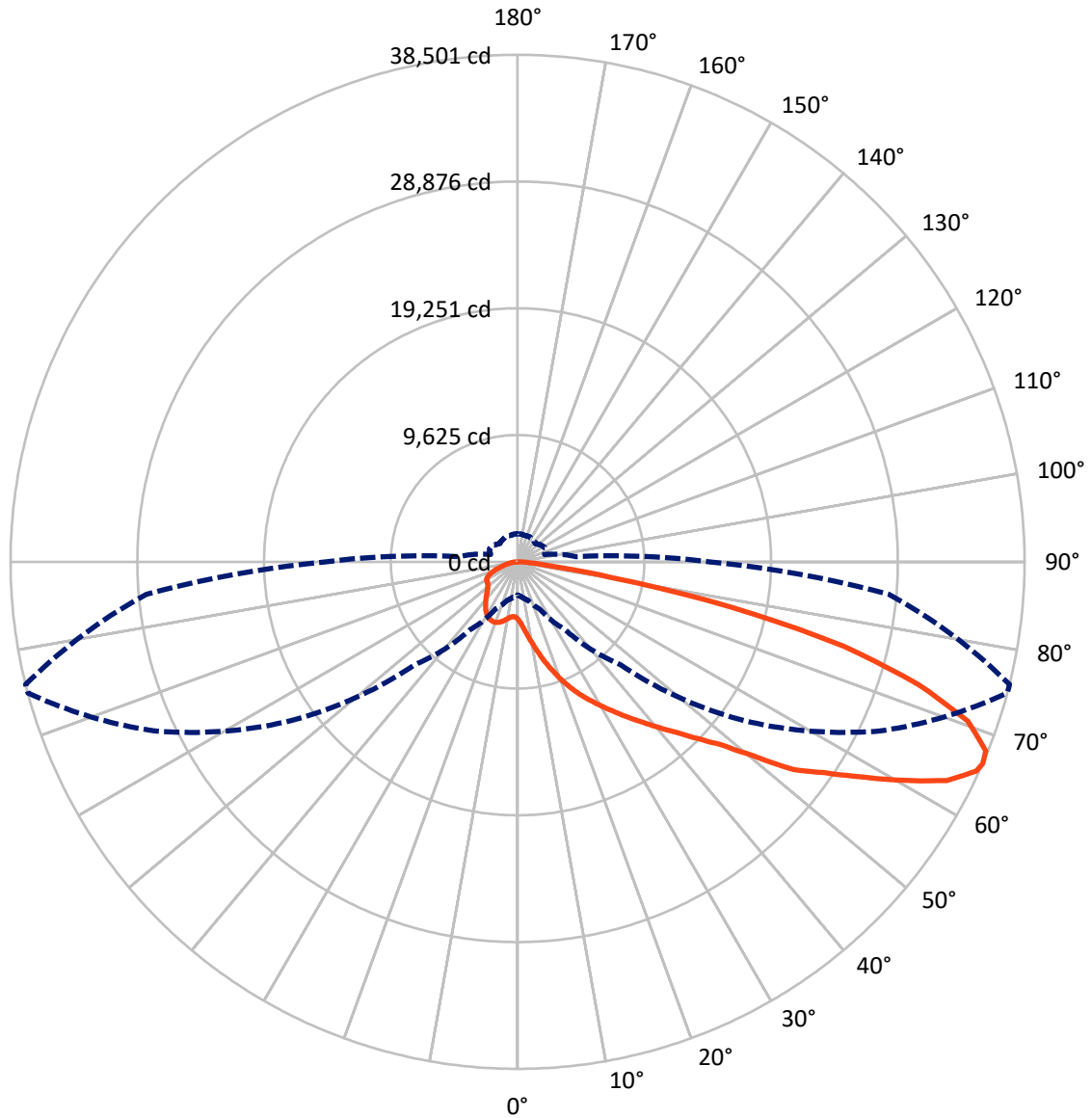
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 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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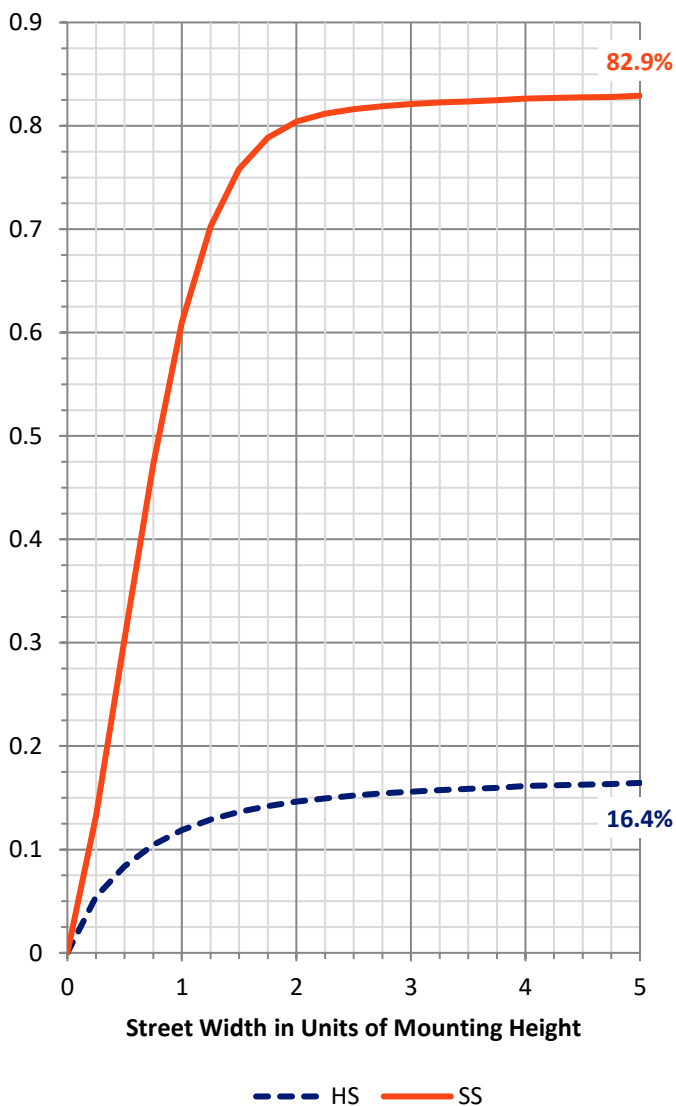
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8028.5	0.0	8028.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	39684.5	0.0	39684.5
	% Fixture	83.2	0.0	83.2
Total	Lumens	47713.0	0.0	47713.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.9	1.1
10°-20°	2080.7	4.4
20°-30°	4043.4	8.5
30°-40°	6599.7	13.8
40°-50°	9016.8	18.9
50°-60°	10502.7	22.0
60°-70°	9415.9	19.7
70°-80°	4758.4	10.0
80°-90°	768.4	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°	47713.0	100.0
0°-180°	47713.0	100.0

Coefficient of Utilization



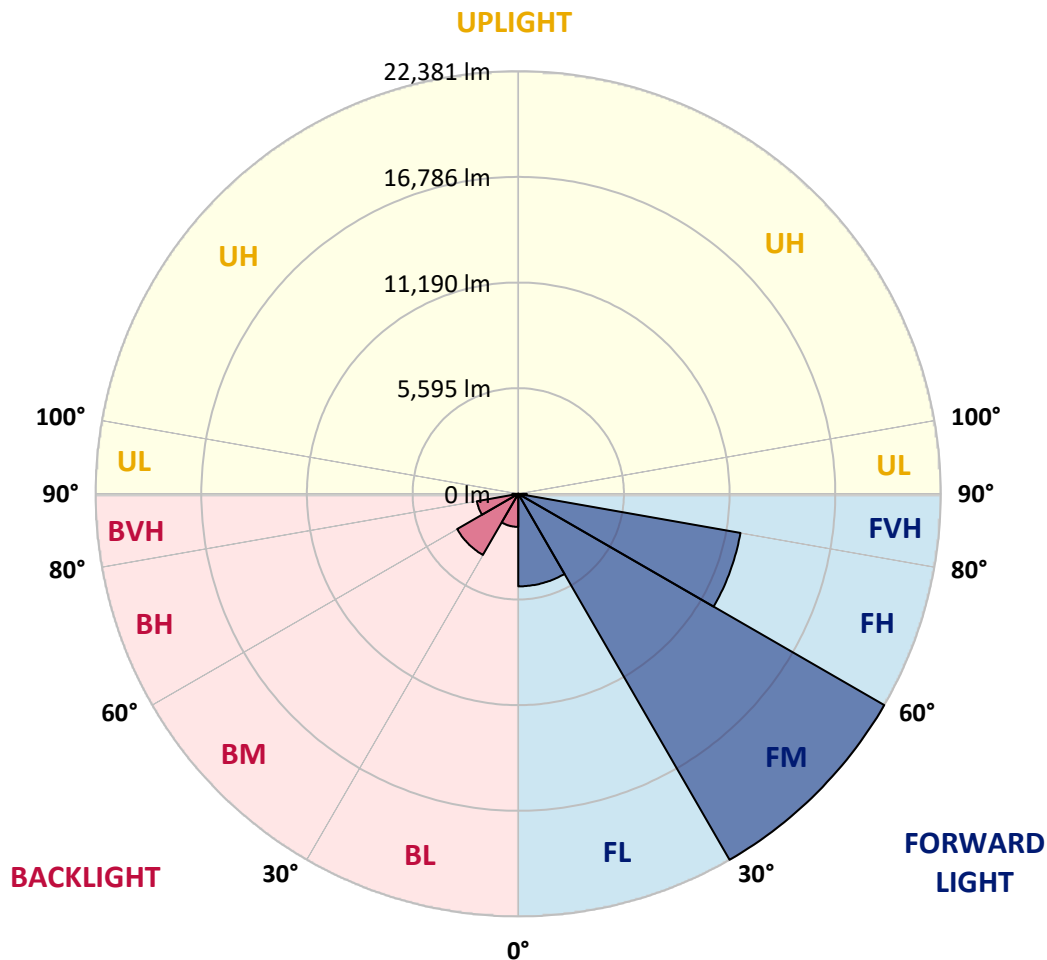
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4900.0	10.3			
FM (30°-60°)	22380.7	46.9			
FH (60°-80°)	11950.0	25.0			G4/12000
FVH (80°-90°)	453.8	1.0			G3/500
BL (0°-30°)	1751.0	3.7	B3/2500		
BM (30°-60°)	3738.5	7.8	B3/5000		
BH (60°-80°)	2224.3	4.7	B3/2500		G3/2500
BVH (80°-90°)	314.6	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4357.3	4357.3	4357.3	4357.3	4357.3	4357.3	4357.3	4357.3	4357.3	4357.3	4357.3
2.5°	5784.3	5696.9	5688.8	5560.8	5531.6	5287.0	5107.2	4919.3	4705.5	4663.4	4495.0
5°	7430.0	7421.9	7310.2	7101.2	6937.6	6519.7	6106.7	5669.3	5189.9	5112.1	4733.1
7.5°	8910.5	8897.6	8811.7	8586.6	8350.1	7836.6	7247.0	6576.4	5798.9	5683.9	5055.4
10°	10034.7	10029.8	10000.7	9835.5	9634.6	9142.2	8491.0	7575.8	6506.8	6349.6	5458.7
12.5°	10902.9	10912.6	10932.1	10873.7	10778.2	10358.6	9691.3	8635.2	7261.6	7106.1	5907.4
15°	11490.9	11520.0	11620.5	11703.1	11753.3	11495.7	10849.4	9718.8	8107.1	7920.8	6404.7
17.5°	11787.3	11819.7	11993.0	12242.5	12472.5	12446.6	11933.1	10752.3	8918.6	8738.8	6939.2
20°	12043.2	12067.5	12261.9	12561.6	12968.2	13147.9	12859.6	11746.8	9807.9	9594.1	7506.2
22.5°	12785.1	12815.9	12874.2	13044.3	13403.9	13734.3	13595.0	12687.9	10622.7	10423.4	8043.9
25°	14217.0	14254.3	14127.9	13983.8	14051.8	14281.8	14307.7	13546.4	11448.8	11223.6	8622.2
27.5°	15942.1	15995.6	15780.1	15409.2	15085.2	14996.1	14965.4	14249.4	12237.6	11976.8	9194.0
30°	17631.6	17723.9	17443.7	16962.6	16368.1	15950.2	15640.8	14937.8	13015.1	12765.7	9733.4
32.5°	19282.1	19244.9	18838.3	18368.6	17672.1	17148.9	16400.5	15676.5	13889.8	13603.1	10269.6
35°	20412.8	20425.7	20048.3	19491.1	18827.0	18425.3	17417.8	16473.4	14782.3	14518.3	10878.6
37.5°	21374.9	21315.0	20887.4	20367.4	19795.6	19623.9	18608.3	17351.3	15749.4	15461.0	11526.5
40°	21695.7	21626.0	21345.8	20971.6	20513.2	20498.6	19922.0	18345.9	16842.7	16557.6	12257.1
42.5°	21501.3	21412.2	21297.2	21195.1	21054.2	21119.0	21156.3	19512.2	18044.6	17725.5	13102.6
45°	20783.7	20649.3	20730.3	20952.2	21258.3	21624.4	22270.7	20803.1	19390.7	19123.4	14095.5
47.5°	19680.6	19559.1	19811.8	20286.4	21119.0	22045.5	23325.2	22228.6	20997.5	20731.9	15509.6
50°	18128.8	18164.5	18525.7	19389.1	20647.6	22239.9	24624.3	24115.6	23333.3	23085.4	17438.8
52.5°	15582.5	15589.0	16606.2	18023.6	19811.8	22139.5	25345.1	26527.5	26522.7	26223.0	19275.7
55°	13217.6	13361.8	14166.8	16050.6	18457.7	21737.8	25848.8	27700.3	28617.1	28265.6	20987.8
57.5°	10907.8	10992.0	11754.9	13646.8	16525.2	20667.1	26365.6	29107.9	31030.6	30808.7	23116.2
60°	8280.4	8410.0	9198.9	10946.6	14053.4	18767.1	26414.1	30577.0	33915.5	33691.9	25492.5
62.5°	5374.5	5598.0	6336.7	7974.3	11063.3	16034.4	25286.8	31537.6	36649.7	36570.3	27601.5
65°	3089.0	3257.4	3770.9	5034.4	7632.5	12603.7	22606.0	31168.3	38332.7	38287.3	28390.3
66°	2523.7	2628.9	3022.6	3934.5	6297.8	11068.1	21047.7	30389.1	38499.5	38501.1	28299.6
67.5°	2018.3	2065.3	2241.8	2816.8	4647.2	8772.9	18263.3	28670.5	38292.2	38348.9	27714.8
70°	1670.0	1694.3	1749.4	1888.7	2536.6	5290.3	12963.3	24204.7	36210.7	36254.5	25432.5
72.5°	1498.3	1512.9	1534.0	1553.4	1789.9	2956.1	7917.6	19363.1	31748.2	31804.9	21954.8
75°	1357.4	1365.5	1362.3	1363.9	1501.6	1883.8	4091.6	14456.8	25670.7	25557.3	16818.4
77.5°	1192.2	1200.3	1184.1	1187.3	1328.2	1448.1	2036.1	10120.5	17323.8	16523.6	9475.9
80°	1007.5	1014.0	1007.5	1018.9	1156.5	1093.4	1184.1	5693.6	7660.1	7245.4	3369.2
82.5°	761.3	788.8	808.3	853.6	952.4	777.5	792.1	2217.5	2332.5	2220.8	1033.4
85°	333.7	406.6	609.0	652.8	716.0	466.5	520.0	903.9	949.2	920.0	375.8
87.5°	87.5	95.6	301.3	379.0	396.9	210.6	270.5	411.4	434.1	411.4	124.7
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°	4357.3	4357.3	4357.3	4357.3	4357.3	4357.3	4357.3	4357.3	4357.3	4357.3	4357.3
2.5°	4405.9	4326.5	4184.0	4057.6	3962.0	3897.2	3832.5	3800.1	3780.6	3761.2	3764.4
5°	4546.8	4386.4	4141.8	3968.5	3871.3	3809.8	3777.4	3764.4	3756.3	3736.9	3736.9
7.5°	4759.0	4532.2	4195.3	4017.1	3941.0	3894.0	3874.6	3868.1	3858.4	3835.7	3838.9
10°	5026.3	4708.8	4307.1	4133.7	4064.1	4012.3	3984.7	3975.0	3957.2	3931.3	3934.5
12.5°	5340.5	4927.4	4454.5	4273.0	4188.8	4119.2	4073.8	4046.3	4015.5	3981.5	3983.1
15°	5683.9	5165.6	4613.2	4397.8	4282.8	4185.6	4112.7	4065.7	4017.1	3975.0	3973.4
17.5°	6032.2	5395.6	4734.7	4465.8	4310.3	4182.3	4083.5	4010.6	3950.7	3898.9	3894.0
20°	6407.9	5602.9	4802.7	4459.3	4258.5	4106.2	3975.0	3884.3	3817.9	3766.0	3757.9
22.5°	6790.2	5797.3	4814.1	4392.9	4143.5	3957.2	3819.5	3719.1	3651.0	3597.6	3578.1
25°	7140.1	5947.9	4767.1	4264.9	3983.1	3782.2	3647.8	3545.8	3490.7	3427.5	3408.1
27.5°	7459.2	6053.2	4673.1	4101.3	3803.3	3605.7	3479.3	3391.9	3331.9	3283.3	3267.1
30°	7745.9	6109.9	4519.3	3907.0	3618.6	3438.8	3331.9	3272.0	3220.2	3158.6	3147.3
32.5°	8018.0	6109.9	4321.6	3694.8	3435.6	3291.4	3228.3	3191.0	3132.7	3072.8	3056.6
35°	8290.2	6072.6	4088.4	3472.9	3267.1	3186.2	3182.9	3139.2	3050.1	2969.1	2948.0
37.5°	8576.9	5996.5	3826.0	3265.5	3129.5	3139.2	3166.7	3069.5	2943.2	2828.2	2797.4
40°	8900.8	5891.2	3553.9	3085.7	3014.5	3118.1	3123.0	2969.1	2722.9	2617.6	2590.1
42.5°	9281.5	5785.9	3301.2	2927.0	2923.7	3055.0	3040.4	2752.0	2604.6	2551.2	2536.6
45°	9782.0	5726.0	3061.4	2776.3	2852.5	2952.9	2899.4	2632.2	2570.6	2539.9	2526.9
47.5°	10570.8	5756.8	2841.1	2656.5	2781.2	2850.9	2637.0	2583.6	2539.9	2502.6	2489.6
50°	11558.9	5739.0	2663.0	2573.9	2700.2	2743.9	2518.8	2520.4	2497.7	2455.6	2436.2
52.5°	12302.4	5599.7	2548.0	2526.9	2628.9	2554.4	2444.3	2458.9	2447.5	2386.0	2364.9
55°	13020.0	5479.8	2489.6	2509.1	2577.1	2317.9	2356.8	2392.5	2381.1	2321.2	2311.5
57.5°	13912.5	5457.1	2454.0	2513.9	2533.4	2199.7	2272.6	2319.6	2311.5	2285.5	2280.7
60°	15005.9	5463.6	2421.6	2522.0	2484.8	2112.2	2193.2	2253.1	2258.0	2253.1	2249.9
62.5°	15606.8	5287.0	2340.6	2499.4	2398.9	2036.1	2110.6	2198.1	2199.7	2209.4	2207.8
65°	15096.6	4759.0	2190.0	2420.0	2254.8	1972.9	2039.3	2134.9	2110.6	2154.3	2154.3
66°	14600.9	4454.5	2115.5	2368.2	2193.2	1948.6	2016.7	2102.5	2071.7	2131.7	2131.7
67.5°	13588.5	3941.0	1981.0	2258.0	2105.7	1914.6	1990.7	2049.1	2006.9	2096.0	2089.5
70°	11738.7	3048.5	1710.5	2008.6	1961.6	1864.4	1955.1	1942.1	1880.6	2016.7	1990.7
72.5°	9897.0	2316.3	1373.6	1681.4	1742.9	1801.2	1904.9	1806.1	1728.3	1823.9	1767.2
75°	7679.5	1741.3	1085.3	1307.2	1472.4	1702.4	1845.0	1649.0	1537.2	1527.5	1496.7
77.5°	4151.6	1195.4	860.1	997.8	1169.5	1579.3	1804.5	1480.5	1312.0	1273.2	1248.9
80°	1644.1	777.5	625.2	756.4	818.0	1401.1	1707.3	1284.5	1082.0	1043.2	1005.9
82.5°	678.7	460.0	403.3	507.0	532.9	1198.7	1532.3	1052.9	835.8	1156.5	1227.8
85°	291.6	252.7	239.7	262.4	301.3	840.7	1219.7	803.4	902.2	805.0	639.8
87.5°	87.5	106.9	102.0	100.4	110.1	200.9	649.5	447.1	662.5	251.1	187.9
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)