

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: P317442

Luminaire Tested: **GAN-SA8B-740-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317442
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-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 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: 47714 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

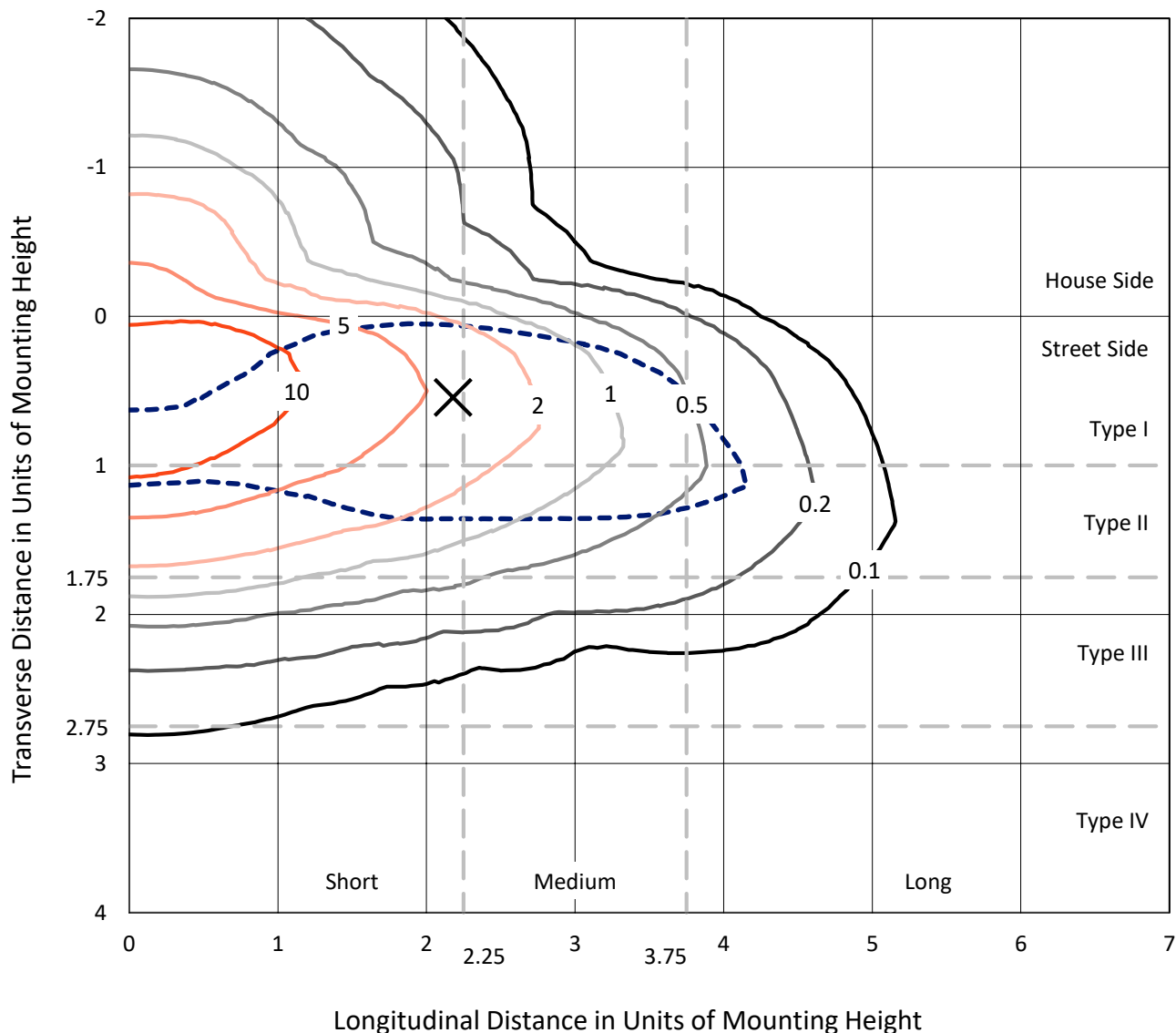
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

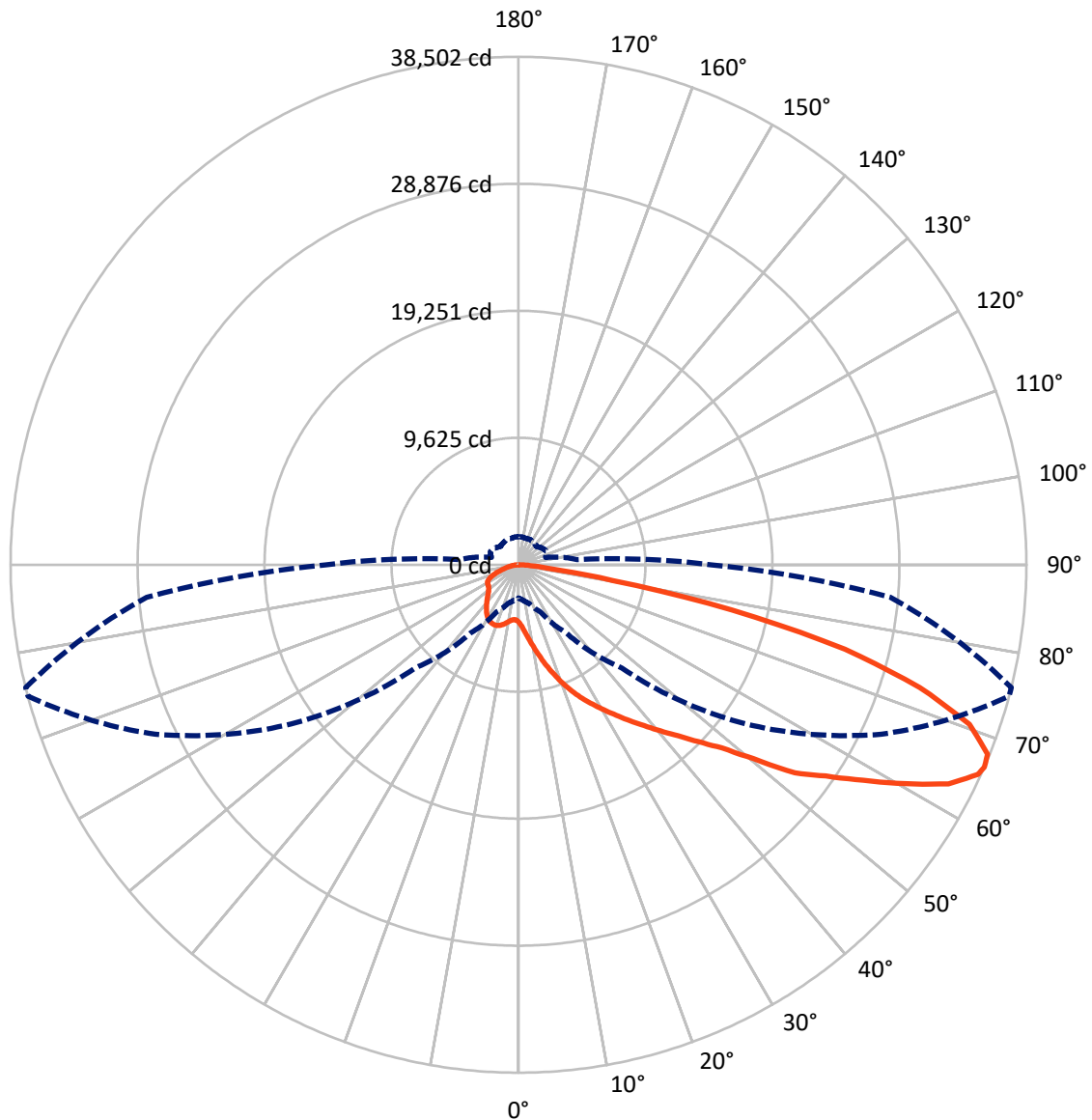
✕ Max cd
 - - - 1/2 Max cd



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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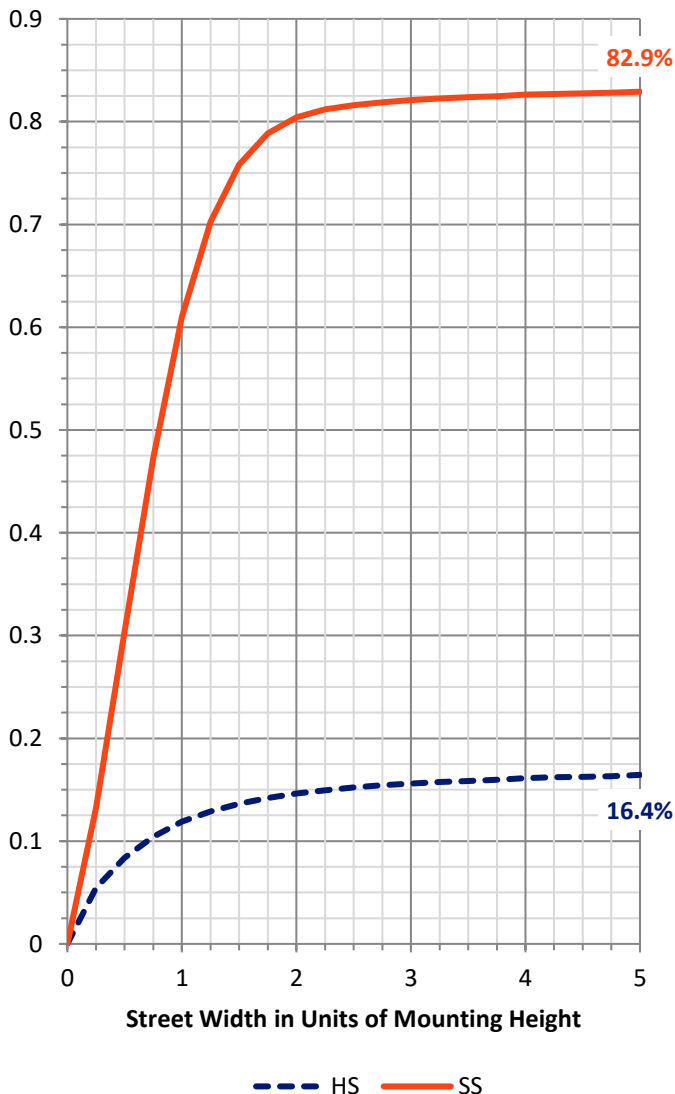
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8028.6	0.0	8028.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	39685.4	0.0	39685.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	47714.0	0.0	47714.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.9	1.1
10°-20°	2080.8	4.4
20°-30°	4043.5	8.5
30°-40°	6599.8	13.8
40°-50°	9017.0	18.9
50°-60°	10503.0	22.0
60°-70°	9416.1	19.7
70°-80°	4758.5	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°	47714.0	100.0
0°-180°	47714.0	100.0

Coefficient of Utilization

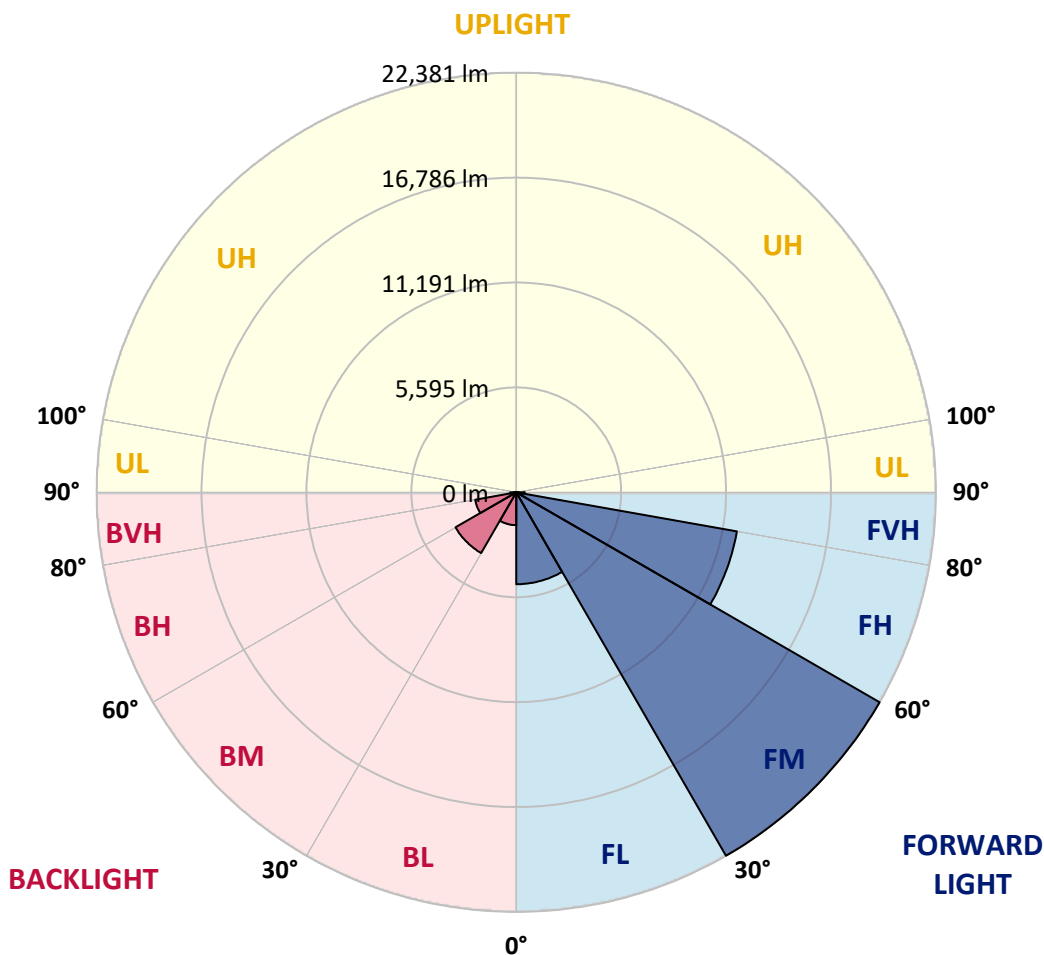


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4900.1	10.3			
FM (30°-60°)	22381.2	46.9			
FH (60°-80°)	11950.3	25.0			G4/12000
FVH (80°-90°)	453.8	1.0			G3/500
BL (0°-30°)	1751.1	3.7	B3/2500		
BM (30°-60°)	3738.6	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°	4357.4	4357.4	4357.4	4357.4	4357.4	4357.4	4357.4	4357.4	4357.4	4357.4	4357.4
2.5°	5784.4	5697.0	5688.9	5560.9	5531.7	5287.2	5107.3	4919.4	4705.6	4663.5	4495.1
5°	7430.2	7422.1	7310.3	7101.4	6937.8	6519.8	6106.8	5669.4	5190.0	5112.2	4733.2
7.5°	8910.7	8897.8	8811.9	8586.8	8350.3	7836.8	7247.2	6576.5	5799.0	5684.0	5055.5
10°	10034.9	10030.0	10000.9	9835.7	9634.8	9142.4	8491.2	7576.0	6506.9	6349.8	5458.9
12.5°	10903.1	10912.8	10932.3	10874.0	10778.4	10358.9	9691.5	8635.4	7261.7	7106.2	5907.5
15°	11491.1	11520.3	11620.7	11703.3	11753.5	11496.0	10849.7	9719.0	8107.3	7921.0	6404.8
17.5°	11787.6	11820.0	11993.3	12242.7	12472.8	12446.8	11933.3	10752.5	8918.8	8739.0	6939.4
20°	12043.5	12067.8	12262.2	12561.8	12968.4	13148.2	12859.9	11747.1	9808.1	9594.3	7506.3
22.5°	12785.4	12816.2	12874.5	13044.6	13404.2	13734.6	13595.3	12688.2	10622.9	10423.7	8044.1
25°	14217.3	14254.6	14128.2	13984.1	14052.1	14282.1	14308.0	13546.7	11449.0	11223.9	8622.4
27.5°	15942.4	15995.9	15780.5	15409.5	15085.6	14996.5	14965.7	14249.7	12237.9	11977.1	9194.2
30°	17631.9	17724.3	17444.0	16962.9	16368.5	15950.5	15641.2	14938.1	13015.4	12765.9	9733.6
32.5°	19282.6	19245.3	18838.7	18369.0	17672.4	17149.2	16400.9	15676.8	13890.1	13603.4	10269.8
35°	20413.2	20426.2	20048.7	19491.5	18827.4	18425.7	17418.1	16473.8	14782.6	14518.6	10878.8
37.5°	21375.4	21315.4	20887.8	20367.8	19796.0	19624.3	18608.7	17351.7	15749.7	15461.4	11526.8
40°	21696.1	21626.5	21346.2	20972.0	20513.6	20499.1	19922.4	18346.3	16843.1	16558.0	12257.3
42.5°	21501.7	21412.6	21297.6	21195.6	21054.7	21119.4	21156.7	19512.6	18045.0	17725.9	13102.9
45°	20784.1	20649.7	20730.7	20952.6	21258.8	21624.8	22271.2	20803.6	19391.1	19123.8	14095.8
47.5°	19681.0	19559.5	19812.2	20286.9	21119.4	22046.0	23325.7	22229.0	20998.0	20732.3	15509.9
50°	18129.2	18164.9	18526.1	19389.5	20648.1	22240.4	24624.8	24116.1	23333.8	23085.9	17439.2
52.5°	15582.8	15589.3	16606.6	18023.9	19812.2	22139.9	25345.6	26528.1	26523.2	26223.6	19276.1
55°	13217.9	13362.0	14167.1	16051.0	18458.1	21738.2	25849.4	27700.9	28617.7	28266.2	20988.2
57.5°	10908.0	10992.2	11755.2	13647.1	16525.6	20667.5	26366.1	29108.5	31031.2	30809.3	23116.7
60°	8280.6	8410.2	9199.1	10946.9	14053.7	18767.4	26414.7	30577.7	33916.2	33692.6	25493.0
62.5°	5374.6	5598.2	6336.8	7974.5	11063.5	16034.8	25287.3	31538.2	36650.5	36571.1	27602.0
65°	3089.0	3257.5	3771.0	5034.5	7632.7	12604.0	22606.5	31168.9	38333.5	38288.1	28390.9
66°	2523.7	2629.0	3022.6	3934.6	6297.9	11068.4	21048.2	30389.8	38500.3	38501.9	28300.2
67.5°	2018.3	2065.3	2241.9	2816.9	4647.3	8773.0	18263.7	28671.1	38293.0	38349.7	27715.4
70°	1670.1	1694.4	1749.4	1888.7	2536.7	5290.4	12963.6	24205.2	36211.5	36255.2	25433.1
72.5°	1498.4	1512.9	1534.0	1553.4	1789.9	2956.2	7917.8	19363.5	31748.8	31805.5	21955.3
75°	1357.4	1365.5	1362.3	1363.9	1501.6	1883.9	4091.7	14457.1	25671.2	25557.8	16818.8
77.5°	1192.2	1200.3	1184.1	1187.3	1328.3	1448.1	2036.1	10120.7	17324.2	16524.0	9476.1
80°	1007.5	1014.0	1007.5	1018.9	1156.6	1093.4	1184.1	5693.7	7660.2	7245.5	3369.3
82.5°	761.3	788.9	808.3	853.7	952.5	777.5	792.1	2217.6	2332.6	2220.8	1033.5
85°	333.7	406.6	609.1	652.8	716.0	466.5	520.0	903.9	949.2	920.1	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°	4357.4	4357.4	4357.4	4357.4	4357.4	4357.4	4357.4	4357.4	4357.4	4357.4	4357.4
2.5°	4406.0	4326.6	4184.0	4057.7	3962.1	3897.3	3832.5	3800.1	3780.7	3761.3	3764.5
5°	4546.9	4386.5	4141.9	3968.6	3871.4	3809.9	3777.5	3764.5	3756.4	3737.0	3737.0
7.5°	4759.1	4532.3	4195.4	4017.2	3941.1	3894.1	3874.7	3868.2	3858.5	3835.8	3839.0
10°	5026.4	4708.9	4307.1	4133.8	4064.2	4012.3	3984.8	3975.1	3957.3	3931.3	3934.6
12.5°	5340.6	4927.5	4454.6	4273.1	4188.9	4119.2	4073.9	4046.4	4015.6	3981.6	3983.2
15°	5684.0	5165.7	4613.3	4397.9	4282.9	4185.7	4112.8	4065.8	4017.2	3975.1	3973.5
17.5°	6032.3	5395.7	4734.8	4465.9	4310.4	4182.4	4083.6	4010.7	3950.8	3899.0	3894.1
20°	6408.1	5603.0	4802.8	4459.4	4258.6	4106.3	3975.1	3884.4	3818.0	3766.1	3758.0
22.5°	6790.4	5797.4	4814.2	4393.0	4143.5	3957.3	3819.6	3719.1	3651.1	3597.7	3578.2
25°	7140.2	5948.0	4767.2	4265.0	3983.2	3782.3	3647.9	3545.8	3490.8	3427.6	3408.1
27.5°	7459.4	6053.3	4673.2	4101.4	3803.4	3605.8	3479.4	3391.9	3332.0	3283.4	3267.2
30°	7746.1	6110.0	4519.3	3907.0	3618.7	3438.9	3332.0	3272.1	3220.2	3158.7	3147.3
32.5°	8018.2	6110.0	4321.7	3694.9	3435.7	3291.5	3228.3	3191.1	3132.8	3072.8	3056.6
35°	8290.3	6072.8	4088.5	3472.9	3267.2	3186.2	3183.0	3139.2	3050.2	2969.2	2948.1
37.5°	8577.0	5996.6	3826.1	3265.6	3129.5	3139.2	3166.8	3069.6	2943.2	2828.2	2797.5
40°	8901.0	5891.4	3553.9	3085.8	3014.5	3118.2	3123.0	2969.2	2722.9	2617.7	2590.1
42.5°	9281.7	5786.1	3301.2	2927.0	2923.8	3055.0	3040.4	2752.1	2604.7	2551.2	2536.7
45°	9782.2	5726.1	3061.5	2776.4	2852.5	2953.0	2899.5	2632.2	2570.7	2539.9	2526.9
47.5°	10571.1	5756.9	2841.2	2656.5	2781.3	2850.9	2637.1	2583.6	2539.9	2502.6	2489.7
50°	11559.2	5739.1	2663.0	2573.9	2700.3	2744.0	2518.8	2520.5	2497.8	2455.7	2436.2
52.5°	12302.7	5599.8	2548.0	2526.9	2629.0	2554.5	2444.3	2458.9	2447.6	2386.0	2365.0
55°	13020.3	5479.9	2489.7	2509.1	2577.2	2318.0	2356.9	2392.5	2381.2	2321.2	2311.5
57.5°	13912.8	5457.2	2454.1	2514.0	2533.4	2199.7	2272.6	2319.6	2311.5	2285.6	2280.7
60°	15006.2	5463.7	2421.7	2522.1	2484.8	2112.3	2193.3	2253.2	2258.1	2253.2	2250.0
62.5°	15607.1	5287.2	2340.7	2499.4	2399.0	2036.1	2110.6	2198.1	2199.7	2209.5	2207.8
65°	15096.9	4759.1	2190.0	2420.0	2254.8	1973.0	2039.4	2134.9	2110.6	2154.4	2154.4
66°	14601.2	4454.6	2115.5	2368.2	2193.3	1948.7	2016.7	2102.5	2071.8	2131.7	2131.7
67.5°	13588.8	3941.1	1981.1	2258.1	2105.8	1914.6	1990.8	2049.1	2007.0	2096.1	2089.6
70°	11739.0	3048.5	1710.5	2008.6	1961.6	1864.4	1955.1	1942.2	1880.6	2016.7	1990.8
72.5°	9897.2	2316.4	1373.6	1681.4	1742.9	1801.3	1904.9	1806.1	1728.4	1823.9	1767.2
75°	7679.7	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	1312.1	1273.2	1248.9
80°	1644.1	777.5	625.3	756.5	818.0	1401.2	1707.3	1284.5	1082.1	1043.2	1005.9
82.5°	678.7	460.0	403.3	507.0	532.9	1198.7	1532.4	1052.9	835.8	1156.6	1227.8
85°	291.6	252.7	239.7	262.4	301.3	840.7	1219.7	803.4	902.2	805.1	639.8
87.5°	87.5	106.9	102.0	100.4	110.1	200.9	649.6	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)