

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: P317443

Luminaire Tested: **GAN-SA9B-740-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317443
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-SA9B-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 53224 lumens
Efficiency: N/A
Efficacy: 142.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

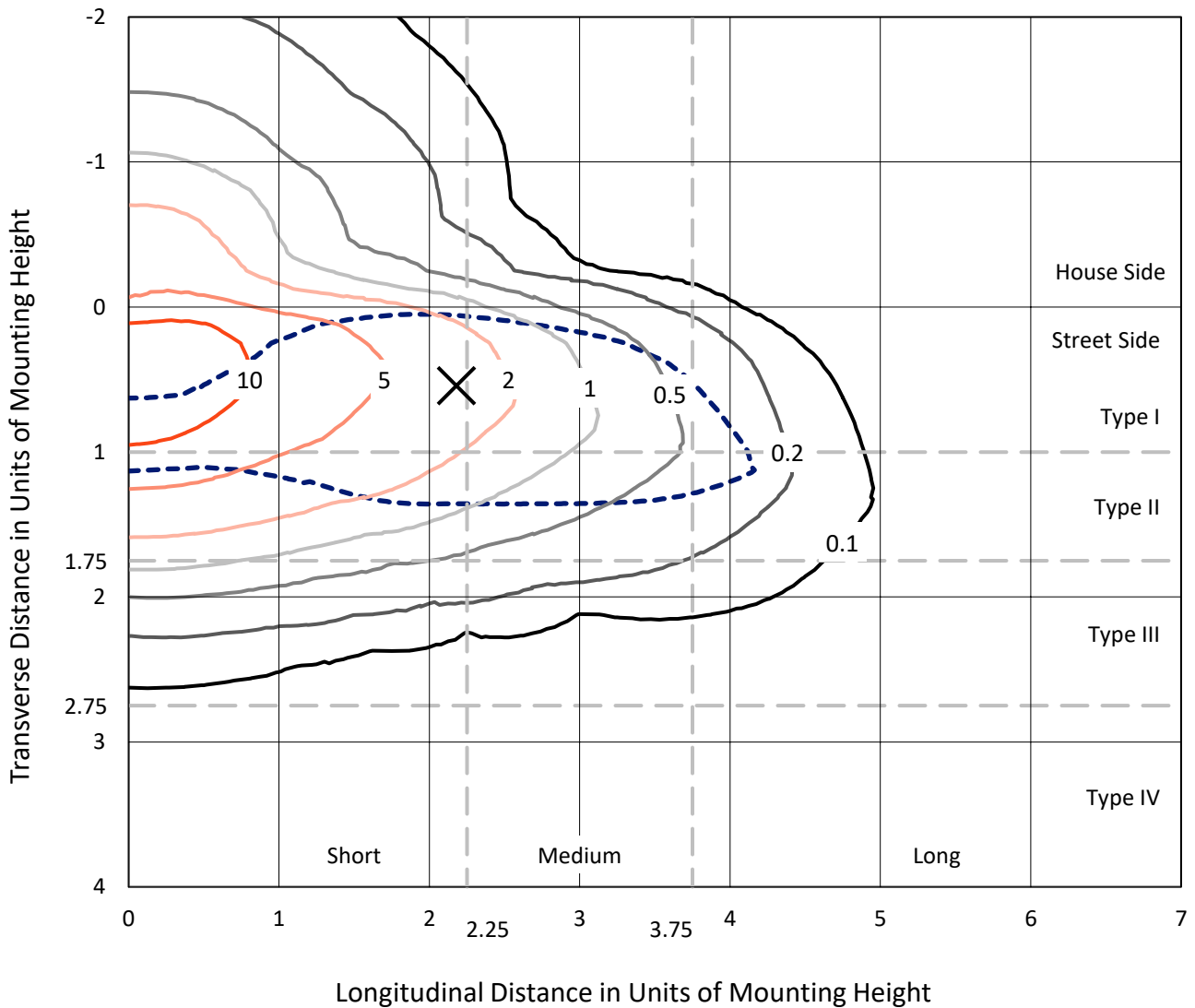
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

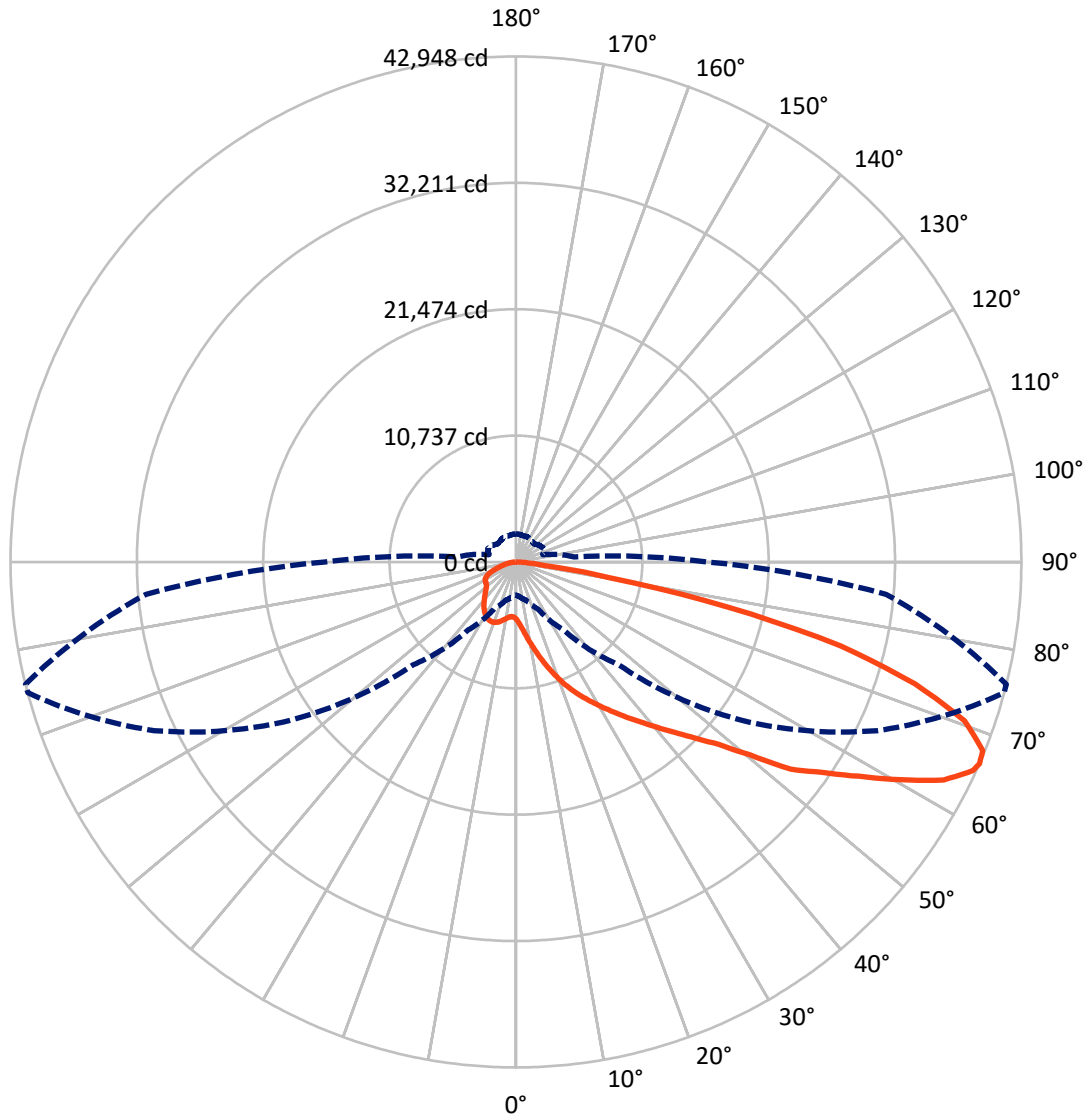
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.3 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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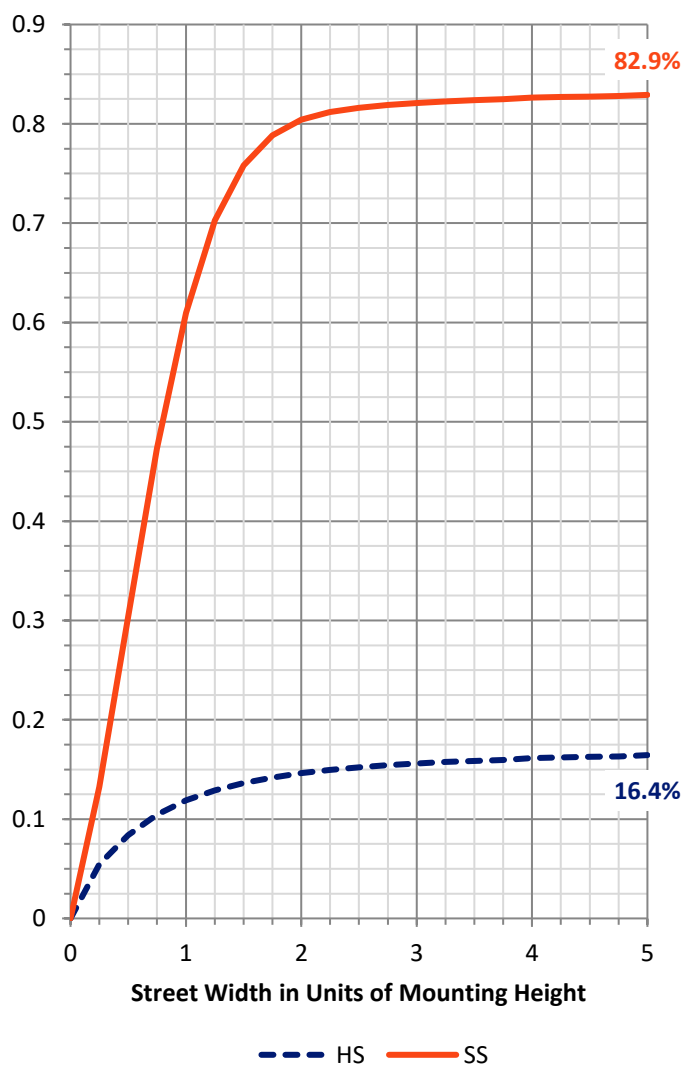
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8955.8	0.0	8955.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	44268.2	0.0	44268.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	53224.0	0.0	53224.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	587.8	1.1
10°-20°	2321.1	4.4
20°-30°	4510.4	8.5
30°-40°	7362.0	13.8
40°-50°	10058.3	18.9
50°-60°	11715.8	22.0
60°-70°	10503.5	19.7
70°-80°	5308.0	10.0
80°-90°	857.2	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°	53224.0	100.0
0°-180°	53224.0	100.0

Coefficient of Utilization



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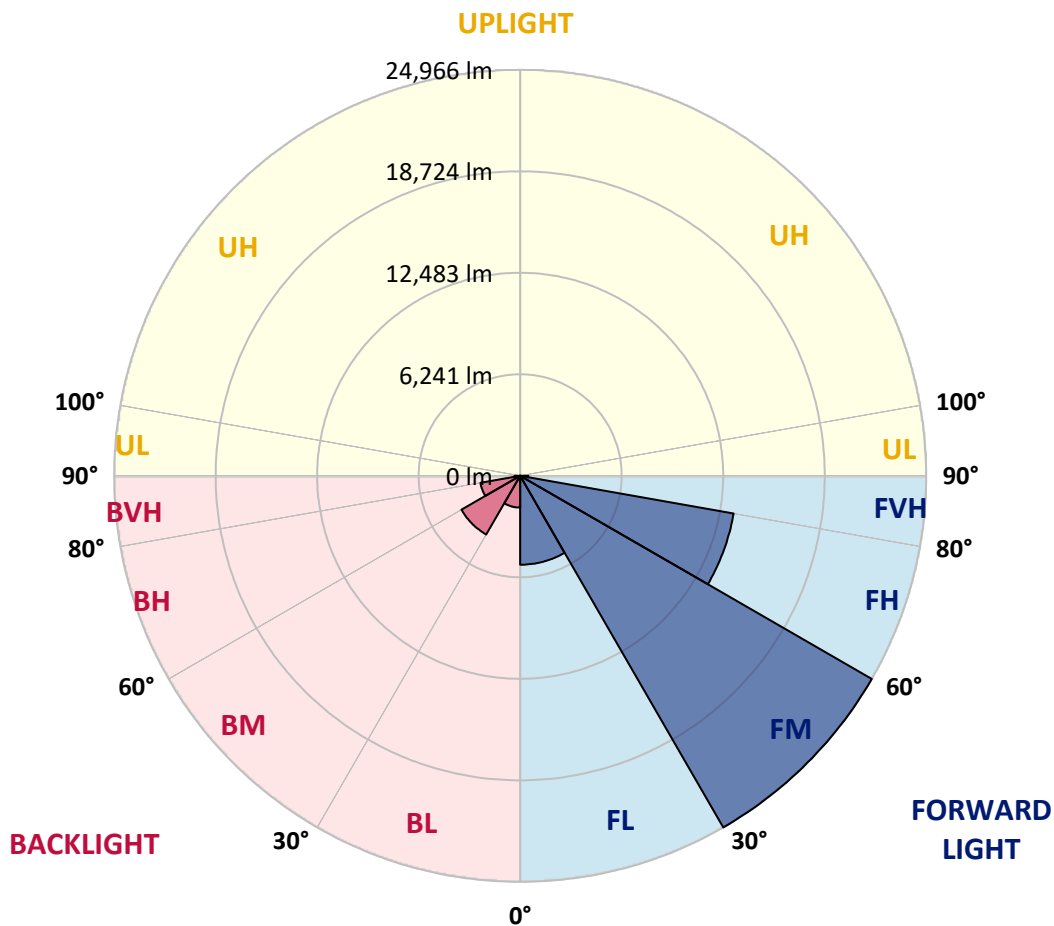
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5466.0	10.3			
FM (30°-60°)	24965.7	46.9			
FH (60°-80°)	13330.3	25.0			G5
FVH (80°-90°)	506.2	1.0			G4/750
BL (0°-30°)	1953.3	3.7	B3/2500		
BM (30°-60°)	4170.3	7.8	B3/5000		
BH (60°-80°)	2481.2	4.7	B3/2500		G3/2500
BVH (80°-90°)	351.0	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-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4860.6	4860.6	4860.6	4860.6	4860.6	4860.6	4860.6	4860.6	4860.6	4860.6	4860.6
2.5°	6452.4	6354.9	6345.8	6203.1	6170.6	5897.7	5697.1	5487.5	5249.0	5202.1	5014.1
5°	8288.2	8279.2	8154.5	7921.4	7738.9	7272.8	6812.0	6324.1	5789.3	5702.6	5279.8
7.5°	9939.7	9925.3	9829.5	9578.4	9314.6	8741.8	8084.1	7336.0	6468.7	6340.4	5639.3
10°	11193.7	11188.3	11155.8	10971.5	10747.4	10198.1	9471.8	8450.9	7258.3	7083.0	6089.2
12.5°	12162.2	12173.1	12194.7	12129.7	12023.1	11555.1	10810.7	9632.6	8100.3	7926.9	6589.8
15°	12818.1	12850.6	12962.7	13054.8	13110.8	12823.5	12102.6	10841.4	9043.5	8835.7	7144.5
17.5°	13148.8	13184.9	13378.3	13656.5	13913.1	13884.2	13311.4	11994.2	9948.8	9748.2	7740.7
20°	13434.3	13461.4	13678.2	14012.5	14466.0	14666.6	14345.0	13103.6	10940.8	10702.2	8373.2
22.5°	14261.8	14296.2	14361.2	14550.9	14952.1	15320.7	15165.3	14153.4	11849.6	11627.4	8973.0
25°	15859.1	15900.7	15759.8	15598.9	15674.8	15931.4	15960.3	15111.1	12771.1	12520.0	9618.1
27.5°	17783.5	17843.1	17602.8	17189.0	16827.6	16728.2	16693.9	15895.3	13651.1	13360.2	10255.9
30°	19668.1	19771.1	19458.5	18921.8	18258.7	17792.5	17447.4	16663.2	14518.4	14240.2	10857.6
32.5°	21509.3	21467.7	21014.2	20490.2	19713.2	19129.6	18294.8	17487.1	15494.1	15174.3	11455.7
35°	22770.5	22785.0	22364.0	21742.4	21001.6	20553.4	19429.6	18376.1	16489.7	16195.2	12135.1
37.5°	23843.8	23777.0	23299.9	22719.9	22082.1	21890.6	20757.6	19355.5	17568.5	17246.8	12857.9
40°	24201.6	24123.9	23811.3	23393.9	22882.5	22866.3	22223.0	20464.9	18788.1	18470.1	13672.8
42.5°	23984.7	23885.4	23757.1	23643.2	23486.0	23558.3	23599.9	21765.9	20128.8	19772.9	14616.0
45°	23184.3	23034.3	23124.7	23372.2	23713.7	24122.1	24843.0	23206.0	21630.4	21332.2	15723.6
47.5°	21953.8	21818.3	22100.2	22629.6	23558.3	24591.9	26019.3	24796.0	23422.8	23126.5	17301.0
50°	20222.8	20262.5	20665.5	21628.6	23032.5	24808.7	27468.4	26901.1	26028.3	25751.9	19453.0
52.5°	17382.3	17389.6	18524.3	20105.3	22100.2	24696.7	28272.5	29591.5	29586.1	29251.8	21502.1
55°	14744.3	14905.1	15803.1	17904.5	20589.6	24248.6	28834.5	30899.7	31922.4	31530.3	23412.0
57.5°	12167.6	12261.6	13112.6	15223.1	18434.0	23054.2	29410.9	32469.9	34614.7	34367.2	25786.2
60°	9236.9	9381.4	10261.4	12211.0	15676.6	20934.7	29465.1	34108.8	37832.8	37583.4	28436.9
62.5°	5995.3	6244.6	7068.6	8895.4	12341.1	17886.5	28207.5	35180.3	40882.8	40794.3	30789.5
65°	3445.8	3633.7	4206.5	5615.8	8514.1	14059.5	25217.0	34768.3	42760.2	42709.6	31669.5
66°	2815.1	2932.6	3371.7	4389.0	7025.2	12346.5	23478.8	33899.2	42946.3	42948.1	31568.3
67.5°	2251.4	2303.8	2500.7	3142.2	5184.0	9786.2	20372.8	31982.1	42715.0	42778.3	30916.0
70°	1862.9	1890.0	1951.4	2106.8	2829.6	5901.3	14460.6	27000.5	40393.2	40442.0	28370.1
72.5°	1671.4	1687.6	1711.1	1732.8	1996.6	3297.6	8832.1	21599.6	35415.2	35478.4	24490.7
75°	1514.2	1523.2	1519.6	1521.4	1675.0	2101.4	4564.2	16126.6	28635.7	28509.2	18761.0
77.5°	1329.9	1338.9	1320.8	1324.5	1481.7	1615.4	2271.3	11289.5	19324.8	18432.2	10570.3
80°	1123.9	1131.1	1123.9	1136.5	1290.1	1219.7	1320.8	6351.2	8544.8	8082.2	3758.3
82.5°	849.2	880.0	901.6	952.2	1062.5	867.3	883.6	2473.6	2601.9	2477.3	1152.8
85°	372.2	453.5	679.4	728.2	798.6	520.4	580.0	1008.2	1058.8	1026.3	419.2
87.5°	97.6	106.6	336.1	422.8	442.7	234.9	301.8	459.0	484.2	459.0	139.1
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°	4860.6	4860.6	4860.6	4860.6	4860.6	4860.6	4860.6	4860.6	4860.6	4860.6	4860.6
2.5°	4914.8	4826.2	4667.2	4526.3	4419.7	4347.4	4275.1	4239.0	4217.3	4195.6	4199.2
5°	5072.0	4893.1	4620.2	4426.9	4318.5	4249.8	4213.7	4199.2	4190.2	4168.5	4168.5
7.5°	5308.7	5055.7	4679.9	4481.1	4396.2	4343.8	4322.1	4314.9	4304.0	4278.7	4282.3
10°	5606.8	5252.6	4804.5	4611.2	4533.5	4475.7	4445.0	4434.1	4414.2	4385.3	4389.0
12.5°	5957.3	5496.6	4969.0	4766.6	4672.6	4594.9	4544.3	4513.6	4479.3	4441.4	4443.2
15°	6340.4	5762.2	5146.0	4905.7	4777.4	4669.0	4587.7	4535.3	4481.1	4434.1	4432.3
17.5°	6728.9	6018.8	5281.6	4981.6	4808.2	4665.4	4555.2	4473.9	4407.0	4349.2	4343.8
20°	7148.1	6250.1	5357.4	4974.4	4750.3	4580.5	4434.1	4332.9	4258.9	4201.0	4192.0
22.5°	7574.5	6466.9	5370.1	4900.3	4622.0	4414.2	4260.7	4148.6	4072.7	4013.1	3991.4
25°	7964.8	6634.9	5317.7	4757.6	4443.2	4219.1	4069.1	3955.3	3893.9	3823.4	3801.7
27.5°	8320.8	6752.4	5212.9	4575.1	4242.6	4022.2	3881.2	3783.6	3716.8	3662.6	3644.5
30°	8640.6	6815.6	5041.2	4358.2	4036.6	3836.0	3716.8	3649.9	3592.1	3523.4	3510.8
32.5°	8944.1	6815.6	4820.8	4121.5	3832.4	3671.6	3601.1	3559.6	3494.5	3427.7	3409.6
35°	9247.7	6774.1	4560.6	3874.0	3644.5	3554.2	3550.6	3501.8	3402.4	3312.0	3288.6
37.5°	9567.5	6689.1	4267.9	3642.7	3490.9	3501.8	3532.5	3424.1	3283.1	3154.8	3120.5
40°	9928.9	6571.7	3964.3	3442.1	3362.6	3478.3	3483.7	3312.0	3037.4	2919.9	2889.2
42.5°	10353.5	6454.2	3682.5	3265.1	3261.4	3407.8	3391.5	3069.9	2905.5	2845.9	2829.6
45°	10911.8	6387.4	3415.0	3097.0	3181.9	3294.0	3234.3	2936.2	2867.5	2833.2	2818.8
47.5°	11791.8	6421.7	3169.3	2963.3	3102.4	3180.1	2941.6	2882.0	2833.2	2791.7	2777.2
50°	12894.0	6401.8	2970.5	2871.2	3012.1	3060.9	2809.7	2811.5	2786.2	2739.3	2717.6
52.5°	13723.4	6246.4	2842.2	2818.8	2932.6	2849.5	2726.6	2742.9	2730.2	2661.6	2638.1
55°	14523.8	6112.7	2777.2	2798.9	2874.8	2585.7	2629.0	2668.8	2656.1	2589.3	2578.4
57.5°	15519.4	6087.4	2737.4	2804.3	2826.0	2453.8	2535.1	2587.5	2578.4	2549.5	2544.1
60°	16739.1	6094.7	2701.3	2813.3	2771.8	2356.2	2446.5	2513.4	2518.8	2513.4	2509.8
62.5°	17409.4	5897.7	2611.0	2788.0	2676.0	2271.3	2354.4	2452.0	2453.8	2464.6	2462.8
65°	16840.3	5308.7	2442.9	2699.5	2515.2	2200.8	2274.9	2381.5	2354.4	2403.2	2403.2
66°	16287.4	4969.0	2359.8	2641.7	2446.5	2173.7	2249.6	2345.4	2311.0	2377.9	2377.9
67.5°	15158.1	4396.2	2209.8	2518.8	2349.0	2135.8	2220.7	2285.7	2238.7	2338.1	2330.9
70°	13094.6	3400.6	1908.1	2240.6	2188.2	2079.7	2180.9	2166.5	2097.8	2249.6	2220.7
72.5°	11040.1	2583.9	1532.2	1875.6	1944.2	2009.3	2124.9	2014.7	1928.0	2034.6	1971.3
75°	8566.5	1942.4	1210.6	1458.2	1642.5	1899.0	2058.1	1839.4	1714.7	1703.9	1669.6
77.5°	4631.1	1333.5	959.5	1113.0	1304.6	1761.7	2012.9	1651.5	1463.6	1420.2	1393.1
80°	1834.0	867.3	697.5	843.8	912.5	1563.0	1904.5	1432.9	1207.0	1163.6	1122.1
82.5°	757.1	513.2	449.9	565.6	594.5	1337.1	1709.3	1174.5	932.4	1290.1	1369.6
85°	325.2	281.9	267.4	292.7	336.1	937.8	1360.6	896.2	1006.4	898.0	713.7
87.5°	97.6	119.3	113.8	112.0	122.9	224.1	724.6	498.7	739.0	280.1	209.6
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)