

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: P317460

Luminaire Tested: **GAN-SA6D-740-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317460
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-SA6D-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48348 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

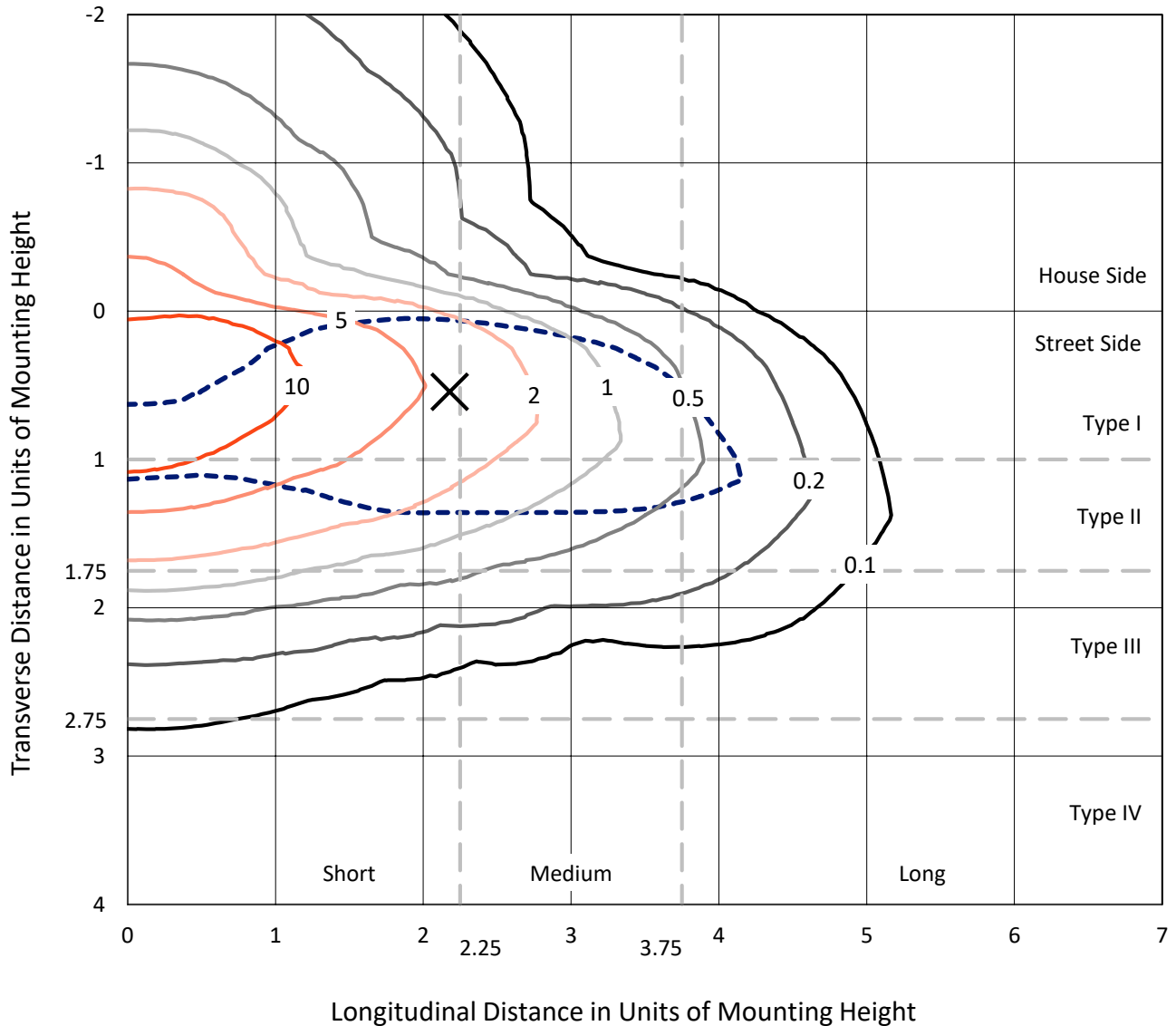
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

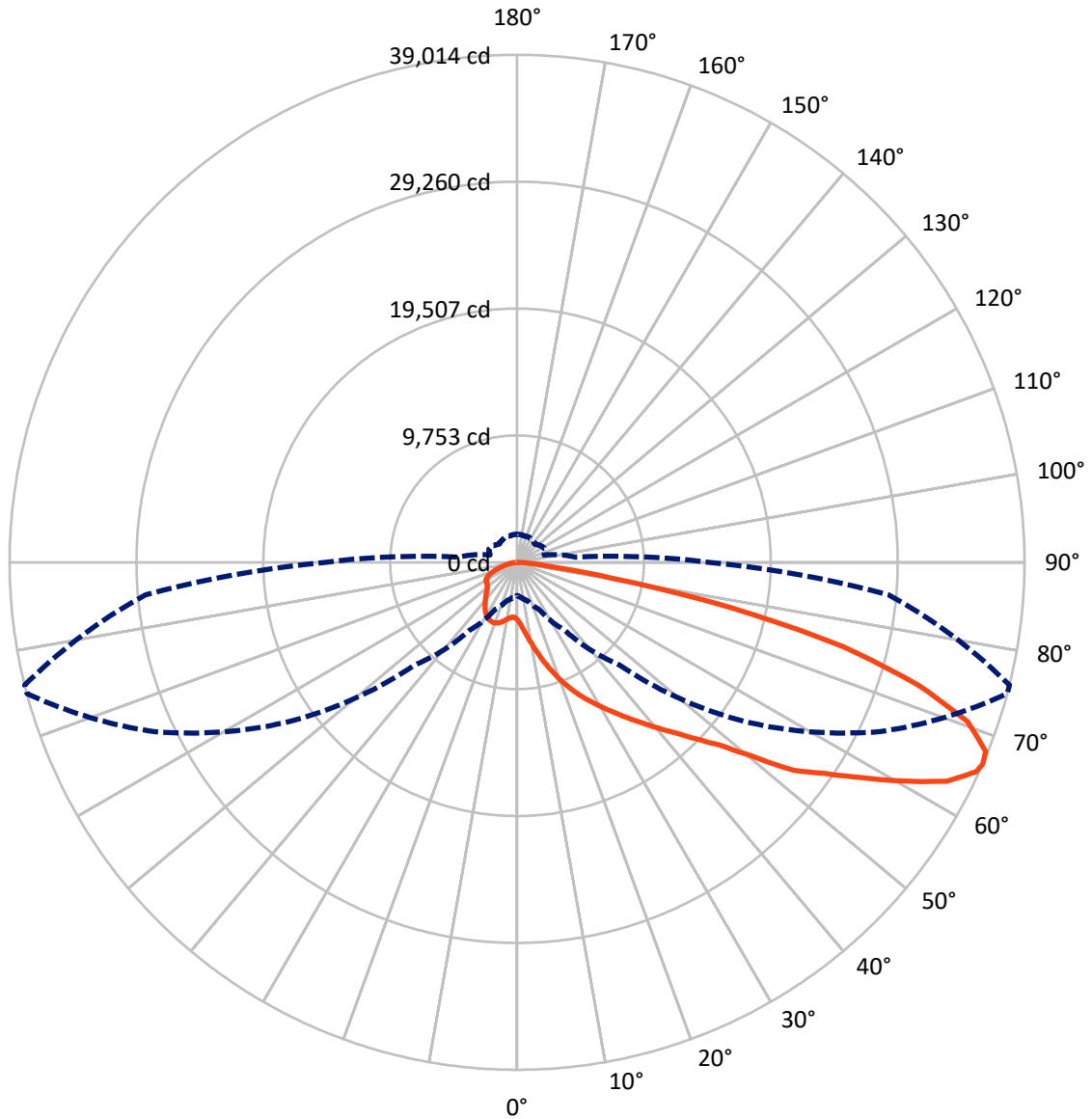
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 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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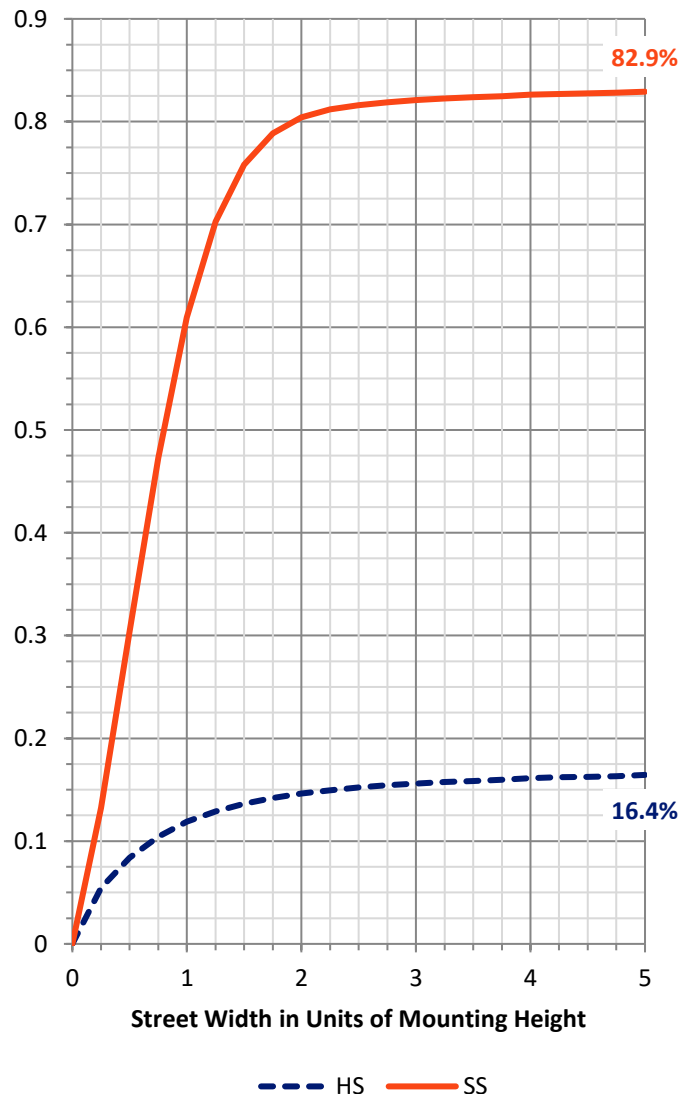
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8135.3	0.0	8135.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	40212.7	0.0	40212.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	48348.0	0.0	48348.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.9	1.1
10°-20°	2108.4	4.4
20°-30°	4097.2	8.5
30°-40°	6687.5	13.8
40°-50°	9136.8	18.9
50°-60°	10642.5	22.0
60°-70°	9541.2	19.7
70°-80°	4821.7	10.0
80°-90°	778.6	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°	48348.0	100.0
0°-180°	48348.0	100.0

Coefficient of Utilization

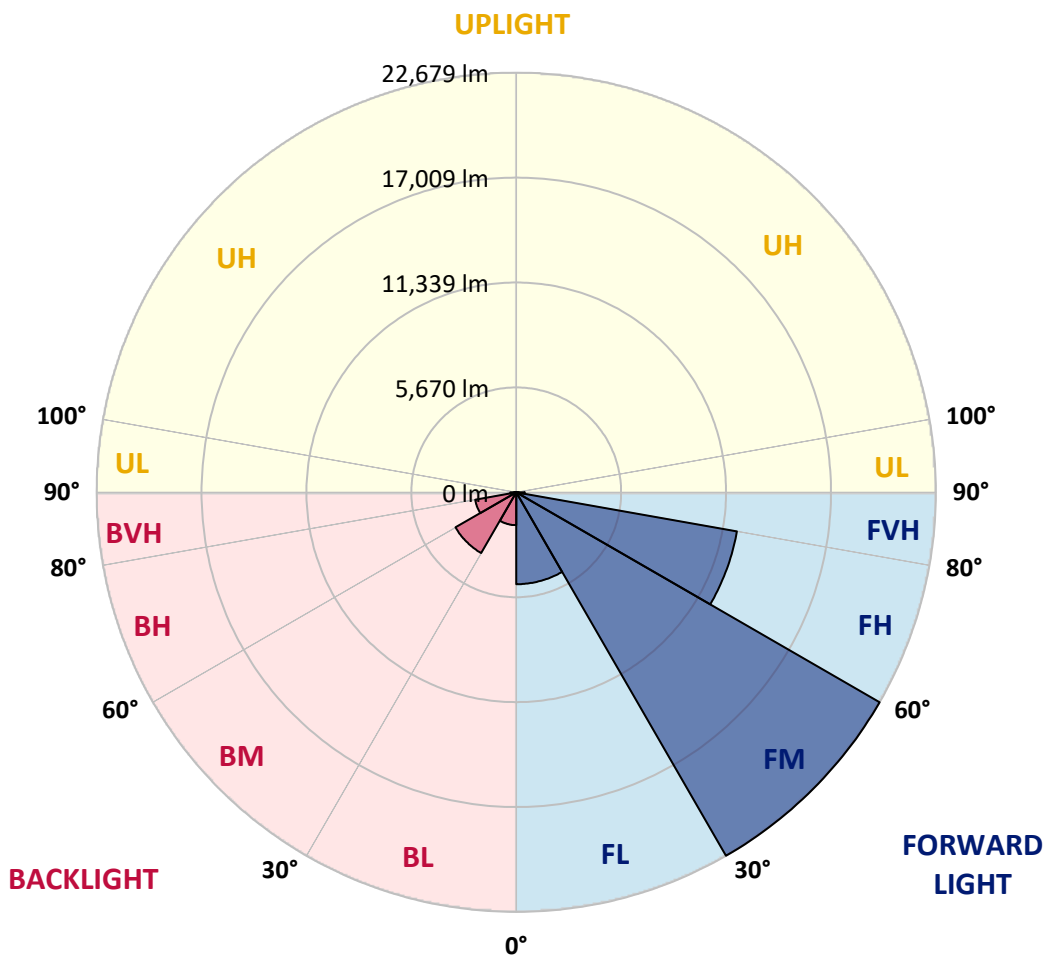


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4965.2	10.3			
FM (30°-60°)	22678.6	46.9			
FH (60°-80°)	12109.1	25.0			G5
FVH (80°-90°)	459.8	1.0			G3/500
BL (0°-30°)	1774.3	3.7	B3/2500		
BM (30°-60°)	3788.3	7.8	B3/5000		
BH (60°-80°)	2253.9	4.7	B3/2500		G3/2500
BVH (80°-90°)	318.8	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°	4415.3	4415.3	4415.3	4415.3	4415.3	4415.3	4415.3	4415.3	4415.3	4415.3	4415.3
2.5°	5861.3	5772.7	5764.5	5634.8	5605.3	5357.4	5175.2	4984.8	4768.2	4725.5	4554.8
5°	7528.9	7520.7	7407.5	7195.7	7030.0	6606.5	6187.9	5744.8	5258.9	5180.1	4796.1
7.5°	9029.1	9016.0	8929.0	8700.9	8461.2	7940.9	7343.5	6663.9	5876.1	5759.5	5122.7
10°	10168.2	10163.3	10133.8	9966.3	9762.8	9263.8	8604.0	7676.6	6593.3	6434.1	5531.4
12.5°	11048.0	11057.9	11077.5	11018.5	10921.6	10496.5	9820.3	8750.1	7358.2	7200.7	5986.0
15°	11643.8	11673.4	11775.1	11858.8	11909.7	11648.7	10993.8	9848.2	8215.0	8026.3	6489.9
17.5°	11944.2	11977.0	12152.6	12405.4	12638.5	12612.2	12091.9	10895.4	9037.3	8855.1	7031.6
20°	12203.5	12228.1	12425.1	12728.8	13140.7	13322.9	13030.8	11903.2	9938.4	9721.8	7606.1
22.5°	12955.3	12986.5	13045.5	13217.9	13582.3	13917.1	13775.9	12856.8	10764.0	10562.2	8151.0
25°	14406.2	14444.0	14316.0	14169.9	14238.8	14471.9	14498.1	13726.7	11601.1	11373.0	8737.0
27.5°	16154.3	16208.4	15990.1	15614.3	15286.0	15195.7	15164.5	14439.1	12400.5	12136.2	9316.4
30°	17866.2	17959.8	17675.8	17188.3	16586.0	16162.5	15849.0	15136.6	13188.3	12935.6	9862.9
32.5°	19538.8	19501.0	19089.0	18613.0	17907.3	17377.1	16618.8	15885.1	14074.7	13784.2	10406.2
35°	20684.4	20697.6	20315.1	19750.5	19077.5	18670.5	17649.6	16692.6	14979.1	14711.5	11023.4
37.5°	21659.4	21598.7	21165.4	20638.5	20059.1	19885.1	18856.0	17582.3	15959.0	15666.8	11679.9
40°	21984.4	21913.8	21629.9	21250.7	20786.2	20771.4	20187.1	18590.1	17066.9	16778.0	12420.2
42.5°	21787.4	21697.2	21580.6	21477.2	21334.4	21400.1	21437.8	19771.8	18284.8	17961.4	13277.0
45°	21060.3	20924.1	21006.1	21231.0	21541.2	21912.2	22567.1	21080.0	19648.7	19377.9	14283.1
47.5°	19942.5	19819.4	20075.5	20556.4	21400.1	22338.9	23635.6	22524.4	21277.0	21007.8	15716.0
50°	18370.1	18406.2	18772.3	19647.1	20922.4	22535.9	24952.0	24436.6	23643.8	23392.7	17670.9
52.5°	15789.9	15796.5	16827.2	18263.4	20075.5	22434.1	25682.4	26880.6	26875.7	26572.0	19532.2
55°	13393.5	13539.6	14355.3	16264.3	18703.3	22027.1	26192.8	28068.9	28997.9	28641.8	21267.1
57.5°	11052.9	11138.3	11911.4	13828.5	16745.2	20942.1	26716.4	29495.3	31443.6	31218.7	23423.9
60°	8390.6	8521.9	9321.3	11092.3	14240.5	19016.8	26765.7	30984.0	34366.8	34140.3	25831.7
62.5°	5446.0	5672.5	6421.0	8080.4	11210.5	16247.8	25623.3	31957.3	37137.4	37057.0	27968.8
65°	3130.1	3300.8	3821.1	5101.4	7734.1	12771.4	22906.8	31583.1	38842.8	38796.9	28768.1
66°	2557.2	2663.9	3062.8	3986.9	6381.6	11215.4	21327.9	30793.6	39011.9	39013.5	28676.2
67.5°	2045.1	2092.7	2271.6	2854.3	4709.1	8889.6	18506.4	29052.1	38801.8	38859.2	28083.7
70°	1692.2	1716.9	1772.7	1913.8	2570.4	5360.7	13135.8	24526.9	36692.6	36737.0	25771.0
72.5°	1518.3	1533.0	1554.4	1574.1	1813.7	2995.5	8023.0	19620.8	32170.7	32228.1	22247.0
75°	1375.5	1383.7	1380.4	1382.0	1521.5	1908.9	4146.1	14649.2	26012.3	25897.4	17042.3
77.5°	1208.0	1216.2	1199.8	1203.1	1345.9	1467.4	2063.2	10255.2	17554.4	16743.5	9602.0
80°	1020.9	1027.5	1020.9	1032.4	1171.9	1107.9	1199.8	5769.4	7762.0	7341.8	3414.0
82.5°	771.4	799.3	819.0	865.0	965.1	787.9	802.6	2247.0	2363.6	2250.3	1047.2
85°	338.1	412.0	617.2	661.5	725.5	472.7	526.9	915.9	961.8	932.3	380.8
87.5°	88.6	96.8	305.3	384.1	402.1	213.4	274.1	416.9	439.9	416.9	126.4
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°	4415.3	4415.3	4415.3	4415.3	4415.3	4415.3	4415.3	4415.3	4415.3	4415.3	4415.3
2.5°	4464.5	4384.1	4239.6	4111.6	4014.8	3949.1	3883.5	3850.6	3830.9	3811.2	3814.5
5°	4607.3	4444.8	4197.0	4021.3	3922.9	3860.5	3827.7	3814.5	3806.3	3786.6	3786.6
7.5°	4822.3	4592.5	4251.1	4070.6	3993.4	3945.8	3926.1	3919.6	3909.7	3886.7	3890.0
10°	5093.1	4771.4	4364.4	4188.8	4118.2	4065.7	4037.7	4027.9	4009.8	3983.6	3986.9
12.5°	5411.6	4993.0	4513.7	4329.9	4244.6	4174.0	4128.0	4100.1	4068.9	4034.5	4036.1
15°	5759.5	5234.3	4674.6	4456.3	4339.8	4241.3	4167.4	4119.8	4070.6	4027.9	4026.3
17.5°	6112.4	5467.4	4797.7	4525.2	4367.7	4238.0	4137.9	4064.0	4003.3	3950.8	3945.8
20°	6493.2	5677.5	4866.6	4518.7	4315.1	4160.9	4027.9	3936.0	3868.7	3816.2	3808.0
22.5°	6880.6	5874.4	4878.1	4451.4	4198.6	4009.8	3870.3	3768.6	3699.6	3645.5	3625.8
25°	7235.1	6027.1	4830.5	4321.7	4036.1	3832.6	3696.3	3592.9	3537.1	3473.1	3453.4
27.5°	7558.5	6133.8	4735.3	4155.9	3853.9	3653.7	3525.6	3437.0	3376.3	3327.0	3310.6
30°	7849.0	6191.2	4579.4	3959.0	3666.8	3484.6	3376.3	3315.6	3263.0	3200.7	3189.2
32.5°	8124.7	6191.2	4379.2	3743.9	3481.3	3335.2	3271.2	3233.5	3174.4	3113.7	3097.2
35°	8400.5	6153.5	4142.8	3519.1	3310.6	3228.6	3225.3	3181.0	3090.7	3008.6	2987.3
37.5°	8691.0	6076.3	3876.9	3309.0	3171.1	3181.0	3208.9	3110.4	2982.4	2865.8	2834.6
40°	9019.3	5969.6	3601.1	3126.8	3054.6	3159.6	3164.5	3008.6	2759.1	2652.4	2624.5
42.5°	9405.0	5862.9	3345.1	2965.9	2962.7	3095.6	3080.8	2788.7	2639.3	2585.1	2570.4
45°	9912.2	5802.2	3102.2	2813.3	2890.4	2992.2	2938.0	2667.2	2604.8	2573.7	2560.5
47.5°	10711.5	5833.4	2878.9	2691.8	2818.2	2888.8	2672.1	2618.0	2573.7	2535.9	2522.8
50°	11712.8	5815.3	2698.4	2608.1	2736.1	2780.5	2552.3	2554.0	2531.0	2488.3	2468.6
52.5°	12466.1	5674.2	2581.9	2560.5	2663.9	2588.4	2476.8	2491.6	2480.1	2417.7	2396.4
55°	13193.3	5552.7	2522.8	2542.5	2611.4	2348.8	2388.2	2424.3	2412.8	2352.1	2342.2
57.5°	14097.7	5529.7	2486.7	2547.4	2567.1	2229.0	2302.8	2350.4	2342.2	2316.0	2311.0
60°	15205.6	5536.3	2453.8	2555.6	2517.8	2140.3	2222.4	2283.1	2288.1	2283.1	2279.9
62.5°	15814.5	5357.4	2371.8	2532.6	2430.9	2063.2	2138.7	2227.3	2229.0	2238.8	2237.2
65°	15297.5	4822.3	2219.1	2452.2	2284.8	1999.2	2066.5	2163.3	2138.7	2183.0	2183.0
66°	14795.2	4513.7	2143.6	2399.7	2222.4	1974.6	2043.5	2130.5	2099.3	2160.0	2160.0
67.5°	13769.4	3993.4	2007.4	2288.1	2133.8	1940.1	2017.2	2076.3	2033.6	2123.9	2117.4
70°	11894.9	3089.0	1733.3	2035.3	1987.7	1889.2	1981.1	1968.0	1905.6	2043.5	2017.2
72.5°	10028.7	2347.1	1391.9	1703.7	1766.1	1825.2	1930.2	1830.1	1751.3	1848.2	1790.7
75°	7781.7	1764.5	1099.7	1324.6	1492.0	1725.1	1869.5	1670.9	1557.7	1547.8	1516.6
77.5°	4206.8	1211.3	871.6	1011.1	1185.1	1600.3	1828.5	1500.2	1329.5	1290.1	1265.5
80°	1666.0	787.9	633.6	766.5	828.9	1419.8	1730.0	1301.6	1096.4	1057.0	1019.3
82.5°	687.7	466.1	408.7	513.7	540.0	1214.6	1552.7	1066.9	846.9	1171.9	1244.2
85°	295.4	256.1	242.9	265.9	305.3	851.9	1235.9	814.1	914.2	815.8	648.3
87.5°	88.6	108.3	103.4	101.8	111.6	203.5	658.2	453.0	671.3	254.4	190.4
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)