

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: P318404

Luminaire Tested: **GAN-SA0B-740-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318404
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0B-740-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56576 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

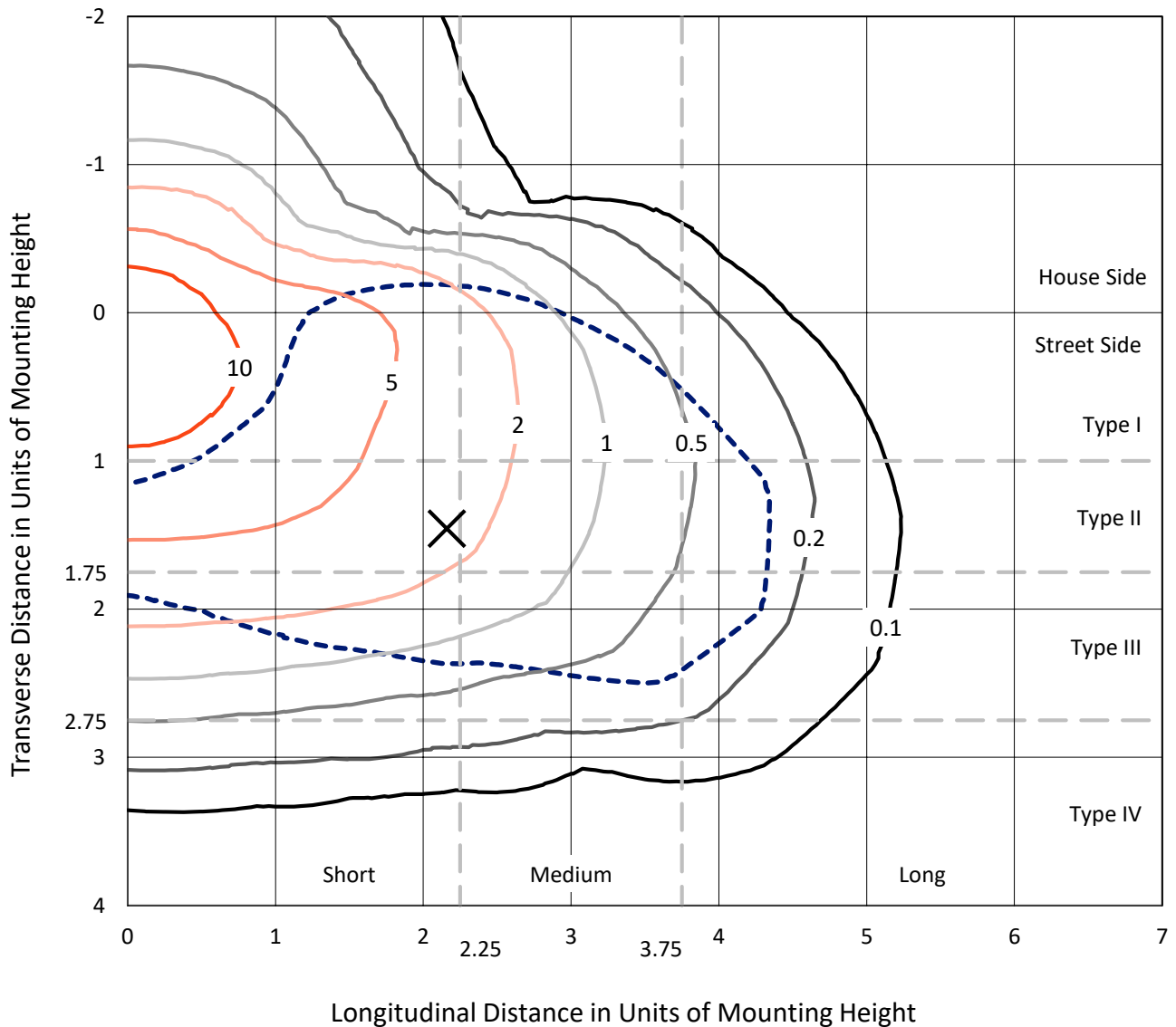
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

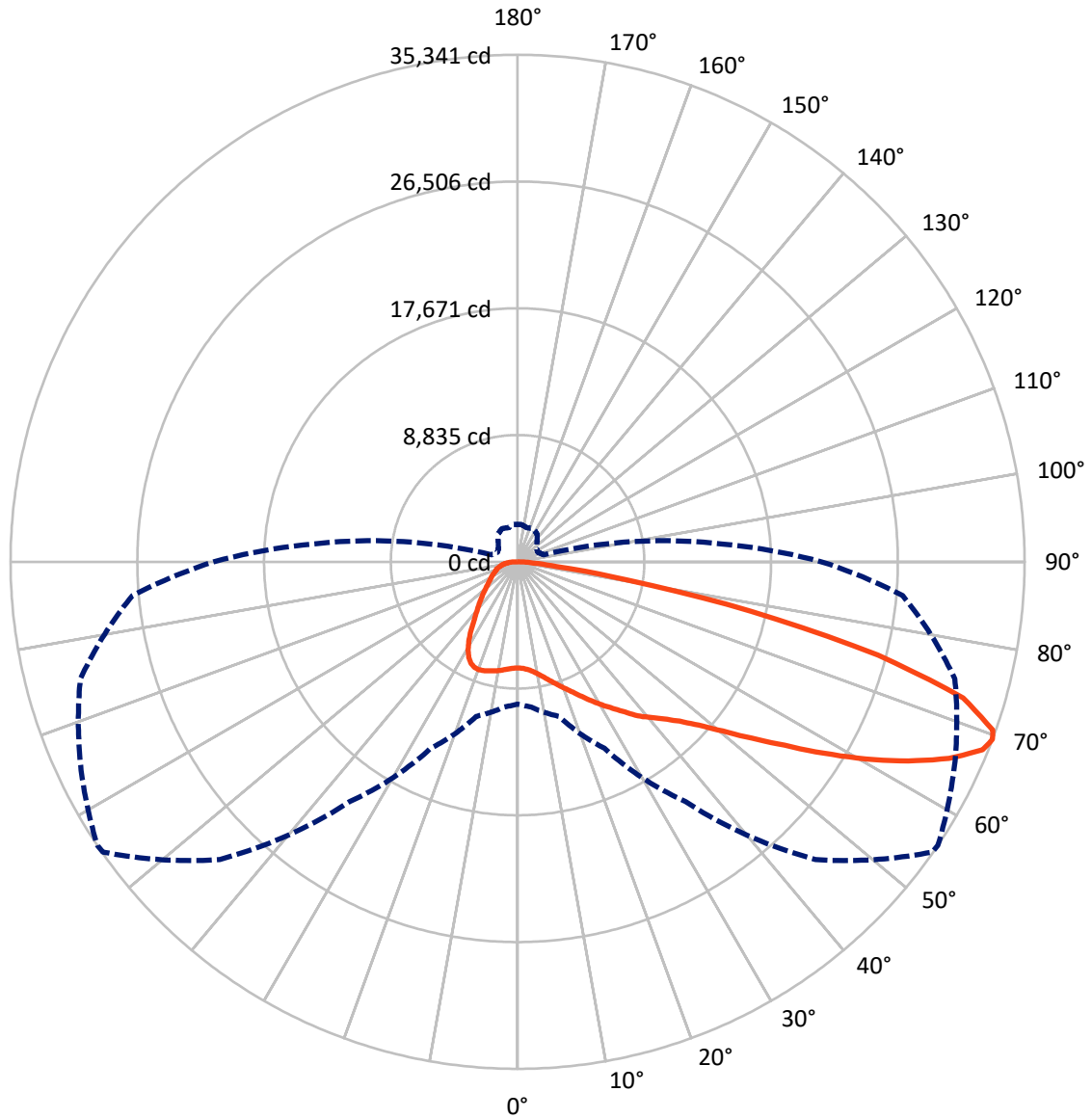
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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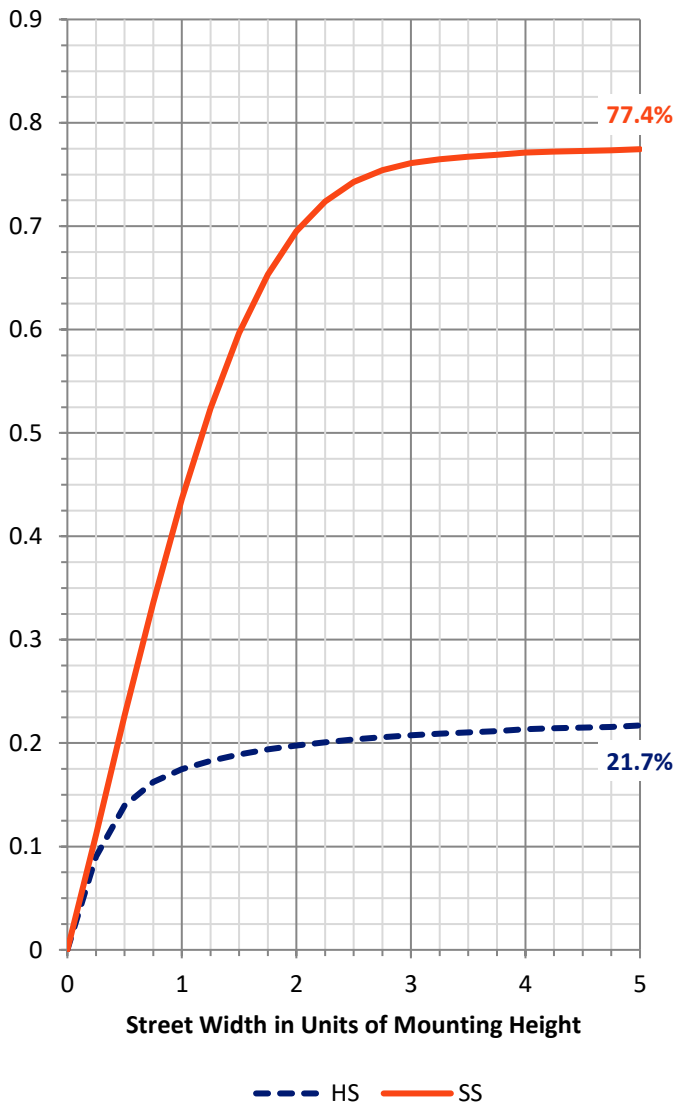
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12599.4	0.0	12599.4
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	43976.6	0.0	43976.6
	% Fixture	77.7	0.0	77.7
Total	Lumens	56576.0	0.0	56576.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	726.4	1.3
10°-20°	2336.0	4.1
20°-30°	4077.7	7.2
30°-40°	5857.5	10.4
40°-50°	8106.4	14.3
50°-60°	11877.1	21.0
60°-70°	14480.4	25.6
70°-80°	8005.7	14.2
80°-90°	1108.8	2.0
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°	56576.0	100.0
0°-180°	56576.0	100.0

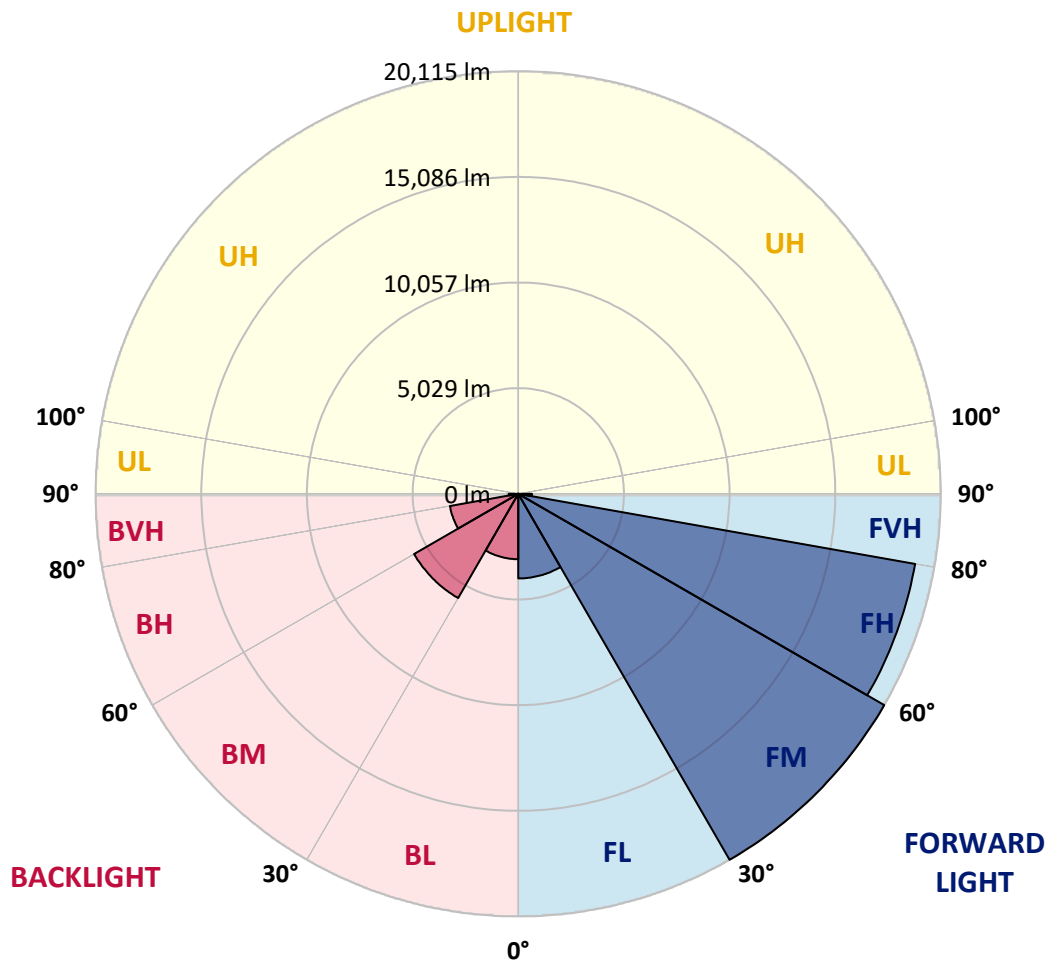


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4026.5	7.1			
FM (30°-60°)	20114.9	35.6			
FH (60°-80°)	19182.1	33.9			G5
FVH (80°-90°)	653.1	1.2			G4/750
BL (0°-30°)	3113.6	5.5	B4/5000		
BM (30°-60°)	5726.1	10.1	B4/8500		
BH (60°-80°)	3304.0	5.8	B4/5000		G4/5000
BVH (80°-90°)	455.7	0.8			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7396.5	7396.5	7396.5	7396.5	7396.5	7396.5	7396.5	7396.5	7396.5	7396.5	7396.5
2.5°	7443.2	7451.0	7445.2	7460.8	7443.2	7454.9	7445.2	7445.2	7439.3	7421.8	7402.3
5°	7560.2	7575.8	7566.0	7581.6	7560.2	7564.1	7546.5	7546.5	7529.0	7492.0	7453.0
7.5°	7743.4	7760.9	7753.1	7768.7	7739.5	7739.5	7716.1	7714.1	7679.1	7618.6	7573.8
10°	7961.7	7985.1	7977.3	8000.7	7977.3	7985.1	7961.7	7961.7	7914.9	7829.1	7772.6
12.5°	8279.4	8308.6	8287.2	8285.2	8275.5	8291.1	8271.6	8267.7	8224.8	8107.8	8029.9
15°	8704.2	8735.4	8690.6	8686.7	8632.1	8626.3	8626.3	8620.4	8593.1	8452.8	8324.2
17.5°	9193.4	9203.2	9164.2	9101.8	9031.7	8986.8	8981.0	8996.6	8996.6	8832.9	8628.2
20°	9672.9	9690.4	9659.3	9589.1	9499.4	9433.2	9386.4	9417.6	9415.6	9220.7	8930.3
22.5°	10195.2	10236.2	10189.4	10099.7	9994.5	9920.4	9838.6	9865.8	9867.8	9628.1	9226.6
25°	10871.5	10834.5	10805.3	10678.6	10528.5	10452.5	10376.5	10403.8	10396.0	10066.6	9532.6
27.5°	11469.9	11477.7	11438.7	11304.2	11130.7	10963.1	10959.2	10976.8	10947.5	10522.7	9821.0
30°	12165.7	12169.6	12115.0	11994.2	11805.1	11588.8	11538.1	11567.3	11505.0	10955.3	10125.1
32.5°	12857.6	12877.1	12816.6	12670.5	12518.4	12255.3	12154.0	12173.5	12017.5	11397.8	10438.9
35°	13463.7	13491.0	13471.5	13374.0	13208.4	12982.3	12861.5	12849.8	12656.8	11939.6	10854.0
37.5°	14081.5	14106.9	14085.4	14003.6	13937.3	13697.6	13633.3	13633.3	13298.0	12493.1	11382.2
40°	14716.9	14755.9	14730.6	14617.5	14561.0	14451.8	14297.9	14260.8	13898.3	13157.7	12243.6
42.5°	15307.5	15358.1	15459.5	15393.2	15278.2	15293.8	14983.9	14964.4	14699.4	14140.0	13325.3
45°	16145.5	16219.6	16391.1	16340.4	16317.0	16231.3	15862.9	15845.4	15744.0	15461.4	14668.2
47.5°	17059.6	17161.0	17470.8	17480.6	17732.0	17570.2	17069.4	17008.9	17032.3	17044.0	16307.3
50°	17901.6	18012.7	18521.4	18761.1	19353.6	19388.7	18587.6	18533.1	18624.7	18893.6	18217.3
52.5°	18574.0	18714.3	19349.7	20090.3	21105.7	21394.2	20456.7	20415.8	20484.0	20947.9	20376.8
55°	19067.1	19219.1	19911.0	21259.7	22881.3	23390.0	22608.4	22569.4	22612.3	23202.9	22725.4
57.5°	19182.1	19219.1	20222.8	22047.1	24380.1	25602.1	25241.5	25163.6	24953.1	25467.6	25317.5
60°	18642.2	18790.3	19965.6	22323.9	25539.7	27783.0	27993.5	27896.1	27305.5	27726.5	27605.7
62.5°	17546.9	17811.9	19004.7	21902.9	25993.8	29564.4	30692.9	30575.9	29558.6	29831.4	29250.6
65°	15757.7	15870.7	17123.9	20450.9	25416.9	30704.6	33099.9	33041.4	31760.9	31334.1	29554.7
67.5°	12557.4	12769.9	13834.0	17416.3	23056.7	30570.1	34961.2	34955.3	33199.3	31891.5	28476.9
69°	9920.4	10140.7	11154.1	14346.6	20402.1	29340.3	35273.0	35341.2	33604.7	31552.4	26937.1
70°	7909.0	8164.4	8860.2	12083.8	18045.8	27718.7	35013.8	35136.6	33526.7	30993.0	25516.3
72.5°	3365.9	3572.5	4067.6	6229.0	10998.2	20698.4	32014.3	32478.2	31720.0	28365.8	21088.2
75°	1469.5	1533.9	1758.0	2539.5	4882.2	11265.2	25079.8	25937.3	27122.3	23976.6	15709.0
77.5°	1075.8	1103.1	1225.9	1491.0	2190.7	4254.7	16128.0	16626.9	19560.2	17447.5	9635.9
80°	832.2	851.7	947.2	1095.3	1430.6	1721.0	7355.5	7784.3	10998.2	8961.5	4013.0
82.5°	662.7	676.3	742.6	806.9	988.1	1042.7	2442.1	2709.1	4059.8	2475.2	1062.2
85°	615.9	631.5	654.9	588.6	633.4	612.0	1056.4	1105.1	1225.9	972.6	444.4
87.5°	278.7	329.4	649.0	458.0	337.2	269.0	432.7	452.2	508.7	510.6	196.8
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°	7396.5	7396.5	7396.5	7396.5	7396.5	7396.5	7396.5	7396.5	7396.5	7396.5	7396.5
2.5°	7414.0	7408.2	7417.9	7394.5	7423.7	7421.8	7412.1	7416.0	7435.4	7433.5	7435.4
5°	7458.8	7454.9	7466.6	7449.1	7484.2	7495.9	7497.8	7515.3	7536.8	7542.6	7542.6
7.5°	7571.9	7571.9	7577.7	7554.3	7577.7	7575.8	7566.0	7583.6	7605.0	7607.0	7605.0
10°	7766.8	7768.7	7759.0	7698.6	7679.1	7626.4	7577.7	7579.7	7607.0	7628.4	7634.2
12.5°	8012.3	8004.5	7961.7	7850.6	7768.7	7661.5	7610.9	7608.9	7636.2	7653.7	7659.6
15°	8293.0	8271.6	8160.5	7979.2	7835.0	7729.7	7647.9	7628.4	7612.8	7593.3	7595.3
17.5°	8558.1	8509.3	8324.2	8072.8	7920.7	7780.4	7622.5	7495.9	7408.2	7357.5	7341.9
20°	8827.0	8731.5	8464.5	8160.5	7967.5	7712.2	7408.2	7150.9	6991.1	6917.0	6903.4
22.5°	9072.6	8918.6	8595.1	8252.1	7930.5	7482.2	7004.7	6630.5	6408.3	6308.9	6316.7
25°	9312.3	9097.9	8731.5	8316.4	7743.4	7076.8	6443.4	5983.4	5726.2	5615.1	5611.2
27.5°	9522.8	9279.2	8879.7	8263.8	7394.5	6499.9	5778.8	5330.5	5116.1	5020.6	5005.0
30°	9764.5	9507.2	9076.5	8063.0	6883.9	5833.4	5129.8	4814.0	4662.0	4566.5	4549.0
32.5°	10058.8	9817.1	9238.3	7698.6	6231.0	5137.6	4623.0	4402.8	4264.4	4157.2	4137.7
35°	10487.6	10226.4	9279.2	7176.2	5513.7	4587.9	4250.8	4024.7	3837.6	3699.2	3685.6
37.5°	11025.5	10739.0	9185.6	6499.9	4817.9	4231.3	3940.9	3662.2	3418.5	3223.6	3192.5
40°	11801.2	11368.5	8926.4	5720.3	4305.3	3956.5	3638.8	3321.1	3019.0	2791.0	2746.1
42.5°	12732.8	12107.2	8528.8	4944.6	3929.2	3677.8	3338.6	2944.9	2656.5	2494.7	2471.3
45°	13917.8	12875.1	7977.3	4266.4	3558.9	3399.1	3015.1	2652.6	2473.3	2354.4	2334.9
47.5°	15270.4	13736.6	7398.4	3714.8	3245.1	3137.9	2755.9	2522.0	2379.7	2286.2	2268.6
50°	16932.9	14709.1	6784.5	3262.6	2929.3	2824.1	2633.1	2449.9	2336.9	2264.7	2247.2
52.5°	18807.9	15806.4	6342.1	2906.0	2668.2	2592.2	2568.8	2410.9	2319.3	2264.7	2247.2
55°	20827.0	16923.2	5864.5	2605.8	2442.1	2463.5	2525.9	2414.8	2352.4	2286.2	2260.8
57.5°	22848.1	18077.0	5332.5	2352.4	2262.8	2368.0	2496.7	2422.6	2370.0	2305.7	2282.3
60°	24446.3	18807.9	4508.0	2140.0	2120.5	2262.8	2426.5	2364.1	2295.9	2297.9	2294.0
62.5°	25192.8	18768.9	3597.9	1951.0	1978.2	2120.5	2313.5	2272.5	2216.0	2292.0	2297.9
65°	24773.8	17833.4	2800.7	1779.4	1826.2	1972.4	2196.5	2227.7	2247.2	2393.4	2412.9
67.5°	23015.8	16013.0	2169.2	1629.4	1687.8	1871.0	2208.2	2426.5	2451.8	2605.8	2603.9
69°	21197.3	14305.7	1884.7	1551.4	1619.6	1896.4	2360.2	2553.2	2457.7	2621.4	2598.0
70°	19673.2	12955.0	1732.7	1498.8	1588.4	1941.2	2461.6	2551.2	2428.5	2568.8	2529.8
72.5°	15151.5	9320.1	1469.5	1401.3	1483.2	1857.4	2490.8	2494.7	2360.2	2387.5	2321.3
75°	10392.1	5889.9	1282.4	1268.8	1323.4	1674.2	2397.3	2383.6	2182.9	2143.9	2089.3
77.5°	5730.1	2991.7	1089.5	1142.1	1179.1	1483.2	2179.0	2159.5	1993.8	1912.0	1892.5
80°	2210.2	1309.7	919.9	1015.4	1038.8	1284.4	1910.0	1892.5	1754.1	1648.9	1619.6
82.5°	834.2	686.0	760.1	879.0	871.2	1060.3	1617.7	1607.9	1473.4	1319.5	1272.7
85°	385.9	411.2	602.2	725.0	668.5	785.4	1294.1	1311.7	1148.0	964.8	964.8
87.5°	163.7	230.0	426.8	547.7	450.2	530.1	949.2	906.3	832.2	576.9	541.8
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)