

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: P319064

Luminaire Tested: **GAN-SA0D-740-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 76263 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U0 - G5

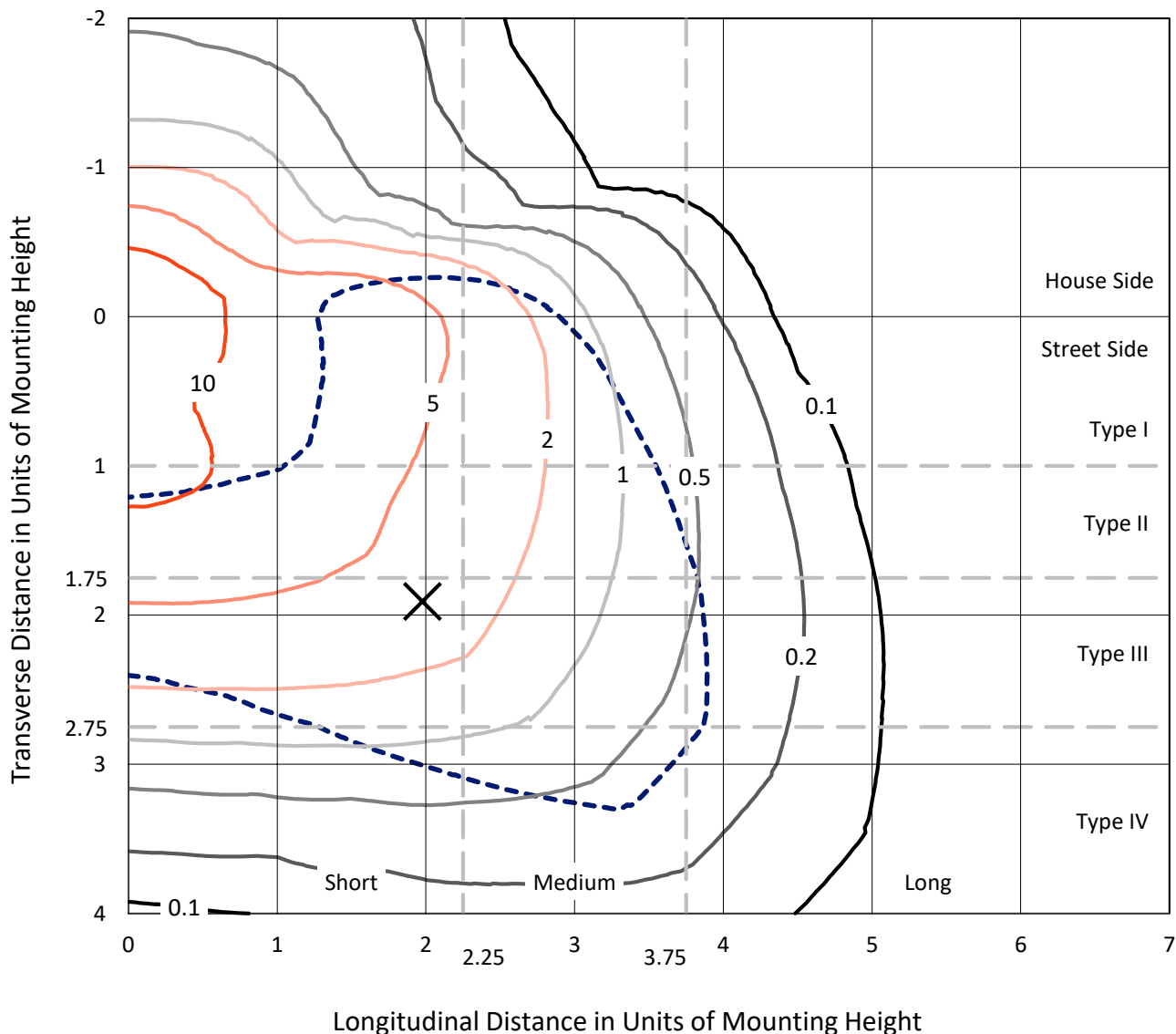
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

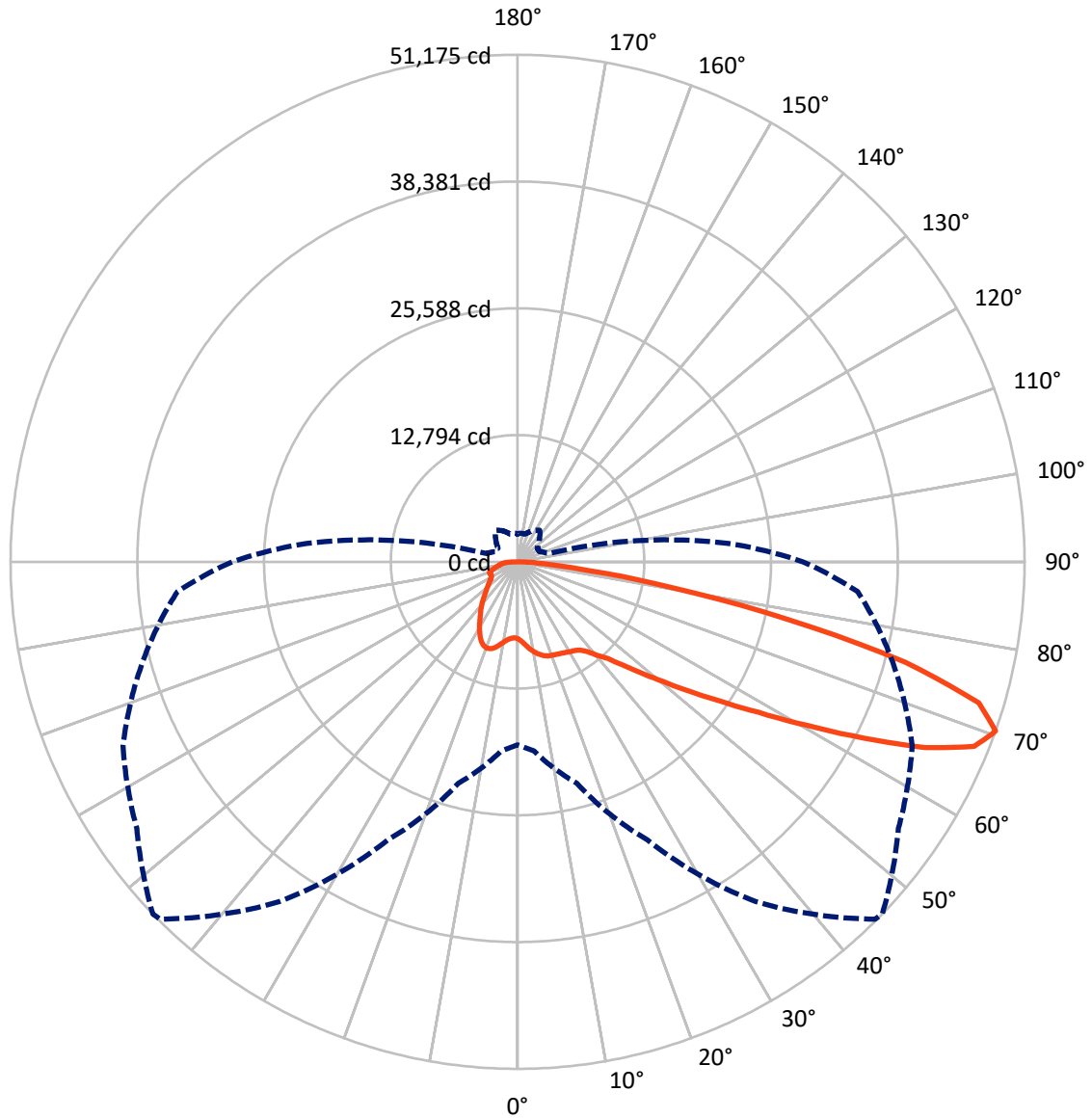
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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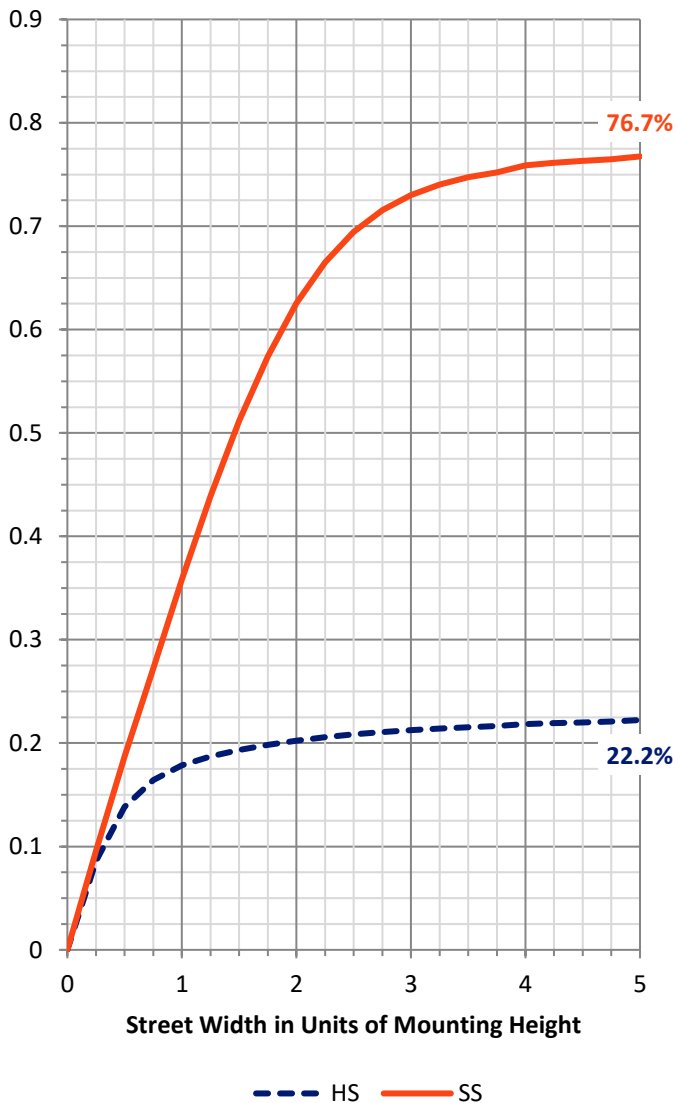
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17479.3	0.0	17479.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	58783.7	0.0	58783.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	76263.0	0.0	76263.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	792.1	1.0
10°-20°	2638.9	3.5
20°-30°	4400.1	5.8
30°-40°	6244.0	8.2
40°-50°	9184.6	12.0
50°-60°	15554.1	20.4
60°-70°	22078.7	29.0
70°-80°	13413.0	17.6
80°-90°	1957.5	2.6
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°	76263.0	100.0
0°-180°	76263.0	100.0

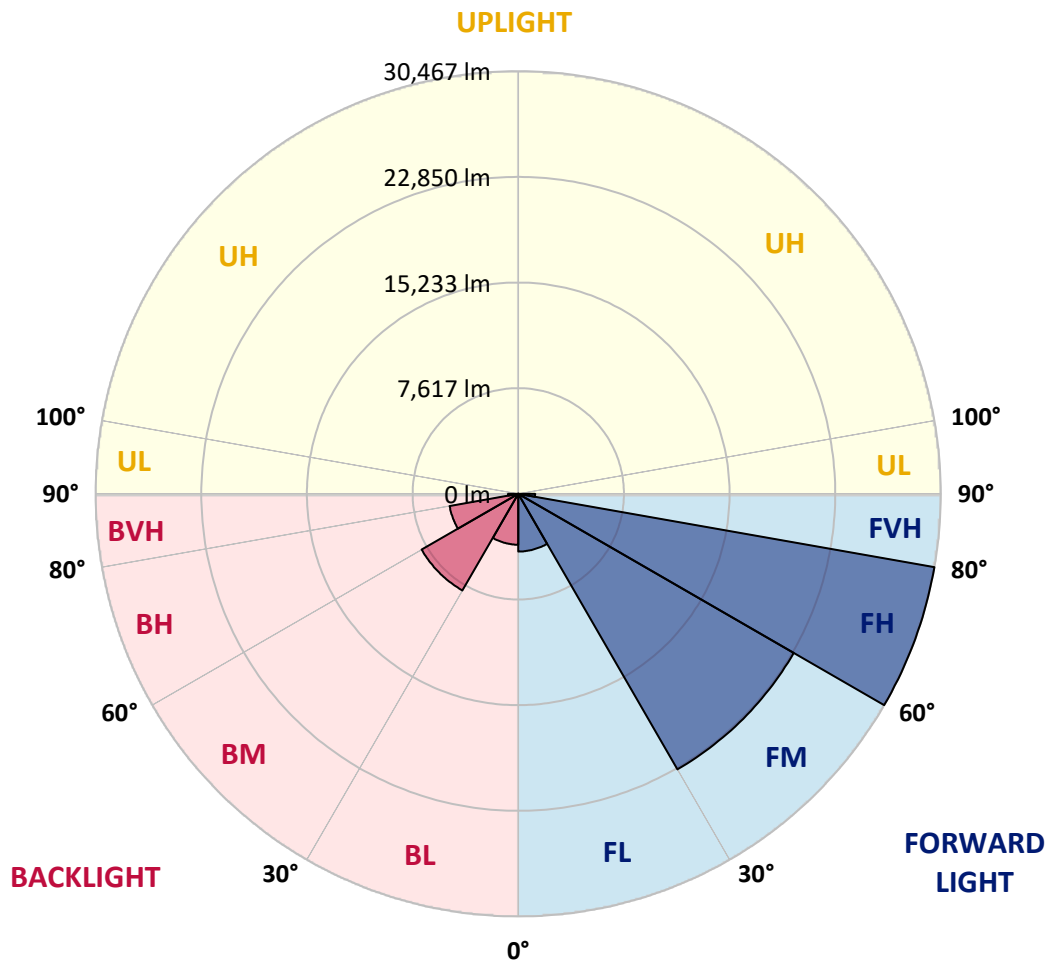


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4161.3	5.5			
FM (30°-60°)	22936.5	30.1			
FH (60°-80°)	30466.6	39.9			G5
FVH (80°-90°)	1219.3	1.6			G5
BL (0°-30°)	3669.8	4.8	B4/5000		
BM (30°-60°)	8046.2	10.6	B4/8500		
BH (60°-80°)	5025.1	6.6	B5		G5
BVH (80°-90°)	738.1	1.0			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	7769.7	7769.7	7769.7	7769.7	7769.7	7769.7	7769.7	7769.7	7769.7	7769.7	7769.7
2.5°	8158.6	8163.8	8174.2	8148.1	8075.1	8054.2	8046.4	7970.7	7921.1	7848.0	7785.4
5°	8811.1	8816.3	8800.6	8727.5	8565.7	8445.7	8435.2	8263.0	8106.4	7939.4	7814.1
7.5°	9492.2	9500.1	9450.5	9312.2	9085.1	8876.3	8863.3	8628.4	8390.9	8137.7	7949.8
10°	10095.1	10063.8	9982.9	9789.8	9521.0	9265.2	9254.7	9009.4	8735.4	8430.0	8179.5
12.5°	10497.1	10471.0	10366.6	10131.7	9836.8	9601.9	9581.0	9353.9	9087.7	8753.6	8453.5
15°	10718.9	10737.2	10596.2	10330.0	10042.9	9844.6	9826.3	9664.5	9427.0	9090.3	8745.8
17.5°	10747.6	10763.3	10627.6	10364.0	10129.1	9993.4	9985.5	9878.5	9706.3	9382.6	9022.5
20°	10580.6	10591.0	10478.8	10262.2	10108.2	10066.4	10063.8	10016.8	9889.0	9601.9	9252.1
22.5°	10337.9	10345.7	10264.8	10108.2	10056.0	10121.2	10139.5	10121.2	10029.9	9761.1	9432.2
25°	10277.8	10272.6	10189.1	10029.9	10074.3	10212.6	10236.1	10243.9	10181.3	9946.4	9661.9
27.5°	10567.5	10549.3	10390.1	10134.3	10163.0	10330.0	10361.3	10437.0	10397.9	10191.7	9922.9
30°	11405.3	11374.0	11047.8	10531.0	10390.1	10476.2	10515.3	10635.4	10643.2	10471.0	10270.0
32.5°	12819.9	12780.7	12196.1	11272.2	10773.7	10625.0	10661.5	10841.6	10938.1	10805.0	10588.4
35°	14607.7	14563.3	13796.0	12532.8	11415.8	10909.4	10935.5	11079.1	11272.2	11084.3	10797.2
37.5°	16471.2	16364.1	15625.5	14015.2	12436.2	11517.5	11517.5	11535.8	11627.2	11235.7	11042.5
40°	18324.2	18217.2	17549.0	15758.6	13756.8	12475.4	12415.3	12010.8	11937.7	11601.1	11535.8
42.5°	20046.7	20015.4	19621.3	17729.1	15307.1	13417.6	13334.0	12647.6	12663.3	12454.5	12457.1
45°	21878.9	21878.9	21557.9	19717.9	17113.2	14931.3	14847.8	13837.8	13994.3	13897.8	14130.1
47.5°	23374.4	23421.3	23377.0	21790.2	19214.2	16854.8	16703.4	15487.2	15925.7	16257.1	16933.1
50°	24901.2	24974.2	24982.1	24063.4	21753.6	19141.1	18968.8	17676.9	18655.6	19605.7	20934.1
52.5°	27117.0	27281.4	26626.3	26331.4	24864.6	21855.4	21685.8	20493.0	22126.8	23460.5	25749.4
55°	29171.0	29027.4	28560.3	28743.0	28194.9	24945.5	24817.6	23771.1	25994.7	27727.7	30700.4
57.5°	30282.8	30272.4	30742.1	31525.1	31786.1	28756.0	28649.0	27631.1	30355.9	31658.2	35348.6
60°	31587.8	31606.0	32770.1	34547.4	35622.7	33500.8	33453.8	32681.3	34591.8	35327.8	38994.7
62.5°	31770.5	32099.3	34103.7	37162.5	39213.9	39044.3	39148.7	37230.4	38381.4	38256.1	41716.8
65°	29669.5	30102.7	33730.5	37953.3	42784.3	45107.1	45203.7	41805.6	41369.7	40759.0	42690.3
67.5°	25363.1	26005.2	29946.1	36233.4	43961.4	49588.3	49724.0	45352.4	43849.1	41607.2	40346.6
70°	18457.3	19169.8	23136.9	30945.7	41863.0	51021.2	51175.1	46921.0	43943.1	39193.0	34443.0
72.5°	11149.5	11708.1	14978.3	22781.9	35333.0	48411.3	48685.3	44932.2	40119.6	33198.1	25433.6
75°	4896.2	5261.6	7242.5	13127.9	25295.3	40054.3	40396.2	38459.7	32597.8	24126.0	15033.1
77.5°	2085.3	2189.7	2970.1	5702.7	14299.7	27370.1	27839.9	28100.9	22116.4	13127.9	6352.5
80°	1299.7	1341.5	1680.8	2581.2	6691.8	15372.4	15878.7	16533.8	10982.5	4825.7	2218.4
82.5°	790.8	837.8	1117.0	1560.7	3484.2	6968.5	7211.2	7673.1	4262.0	2085.3	1148.4
85°	475.0	508.9	683.8	986.5	1983.5	2740.4	2737.8	3027.5	2007.0	1341.5	605.5
87.5°	227.1	253.2	365.4	511.5	999.6	1028.3	963.1	1090.9	1218.8	879.5	305.4
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°	7769.7	7769.7	7769.7	7769.7	7769.7	7769.7	7769.7	7769.7	7769.7	7769.7	7769.7
2.5°	7764.5	7754.0	7720.1	7694.0	7688.8	7673.1	7660.1	7667.9	7678.4	7681.0	7681.0
5°	7761.9	7733.2	7688.8	7670.5	7694.0	7725.3	7764.5	7816.7	7848.0	7871.5	7887.2
7.5°	7887.2	7832.3	7782.8	7772.3	7819.3	7902.8	7991.5	8101.2	8176.9	8229.1	8239.5
10°	8095.9	8028.1	7978.5	7988.9	8072.5	8192.5	8317.8	8458.7	8573.6	8644.0	8649.2
12.5°	8336.1	8270.8	8223.8	8268.2	8406.5	8552.7	8683.2	8805.8	8910.2	8980.7	8980.7
15°	8612.7	8565.7	8510.9	8612.7	8800.6	8931.1	8985.9	9046.0	9103.4	9155.6	9145.1
17.5°	8878.9	8834.6	8805.8	8925.9	9121.6	9181.7	9145.1	9100.8	9100.8	9129.5	9134.7
20°	9108.6	9069.4	9087.7	9205.2	9306.9	9244.3	9108.6	8967.7	8910.2	8925.9	8941.6
22.5°	9309.6	9291.3	9346.1	9400.9	9327.8	9108.6	8858.0	8667.5	8597.0	8591.8	8597.0
25°	9544.4	9541.8	9609.7	9510.5	9186.9	8782.4	8445.7	8260.4	8221.2	8252.5	8304.7
27.5°	9836.8	9865.5	9899.4	9536.6	8899.8	8289.1	7947.2	7819.3	7858.4	7934.1	7983.7
30°	10210.0	10288.3	10215.2	9471.4	8487.4	7725.3	7399.1	7362.6	7469.6	7576.6	7628.8
32.5°	10572.8	10695.4	10517.9	9301.7	7955.0	7127.7	6874.5	6864.1	6994.6	7099.0	7172.0
35°	10865.1	11107.8	10745.0	8965.0	7339.1	6577.0	6391.7	6321.2	6368.2	6490.9	6574.4
37.5°	11246.1	11650.6	10901.6	8450.9	6670.9	6122.9	5906.2	5744.4	5702.7	5752.2	5794.0
40°	11943.0	12478.0	10974.7	7733.2	6018.5	5668.7	5449.5	5212.0	5047.6	4927.5	4930.1
42.5°	13080.9	13555.9	10927.7	6861.5	5415.6	5225.0	4977.1	4703.1	4436.8	4165.4	4144.5
45°	14928.7	15158.4	10786.8	5937.5	4885.8	4760.5	4528.2	4254.2	3899.2	3591.2	3562.5
47.5°	17885.7	17376.8	10567.5	5131.1	4418.6	4366.4	4152.4	3836.6	3460.7	3212.8	3191.9
50°	21918.0	20579.2	10460.5	4489.0	4006.2	4021.9	3847.0	3512.9	3158.0	2975.3	2954.4
52.5°	26741.2	24308.7	10666.7	3993.2	3674.8	3729.6	3599.1	3285.9	2988.3	2844.8	2823.9
55°	31744.4	28171.4	10888.6	3633.0	3361.6	3468.6	3424.2	3165.8	2897.0	2763.9	2745.6
57.5°	36027.2	31055.3	10444.9	3340.7	3082.3	3249.3	3288.5	3090.1	2850.0	2730.0	2709.1
60°	38723.3	32216.7	9280.8	3066.6	2860.5	3074.5	3210.2	3069.3	2868.3	2857.9	2842.2
62.5°	40002.1	32115.0	7534.8	2850.0	2722.1	2998.8	3267.6	3186.7	3077.1	3171.0	3178.9
65°	39427.9	30580.3	5611.3	2706.5	2623.0	3027.5	3439.9	3408.5	3137.1	3231.1	3244.1
67.5°	35648.8	26918.6	4155.0	2581.2	2513.3	3108.4	3753.1	3481.6	3019.7	3087.5	3045.8
70°	28813.4	21341.2	3205.0	2440.3	2401.1	3098.0	3894.0	3437.3	2891.8	2907.4	2795.2
72.5°	19869.3	14552.9	2607.3	2309.8	2239.3	2823.9	3794.8	3327.6	2784.8	2664.7	2516.0
75°	10805.0	7811.5	2215.8	2174.1	1954.8	2479.4	3612.1	3249.3	2688.2	2529.0	2445.5
77.5°	4251.5	3241.5	1923.5	1988.8	1709.5	2189.7	3408.5	3100.6	2555.1	2346.3	2304.6
80°	1735.6	1654.7	1594.7	1719.9	1469.4	1915.7	3163.2	2925.7	2395.9	2176.7	2093.1
82.5°	983.9	1028.3	1239.7	1357.2	1192.7	1764.3	3045.8	2784.8	2205.4	1949.6	1850.4
85°	503.7	602.9	863.9	973.5	876.9	1500.7	2805.7	2437.7	1769.5	1492.9	1500.7
87.5°	242.7	336.7	545.5	610.7	569.0	1085.7	2095.8	1766.9	1378.0	1090.9	1057.0
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)