

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: P318062

Luminaire Tested: **GAN-SA8D-730-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318062
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55573 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

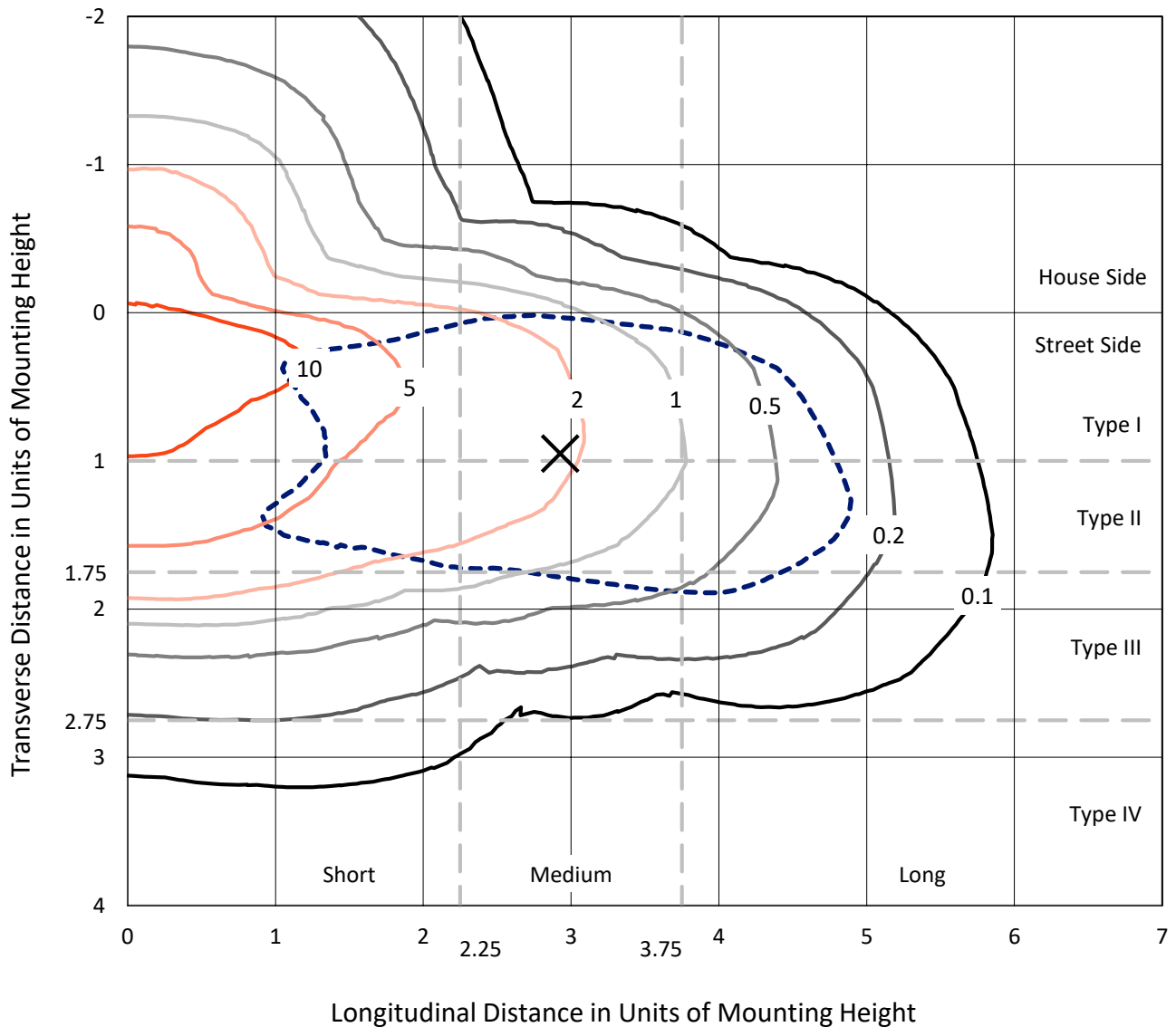
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

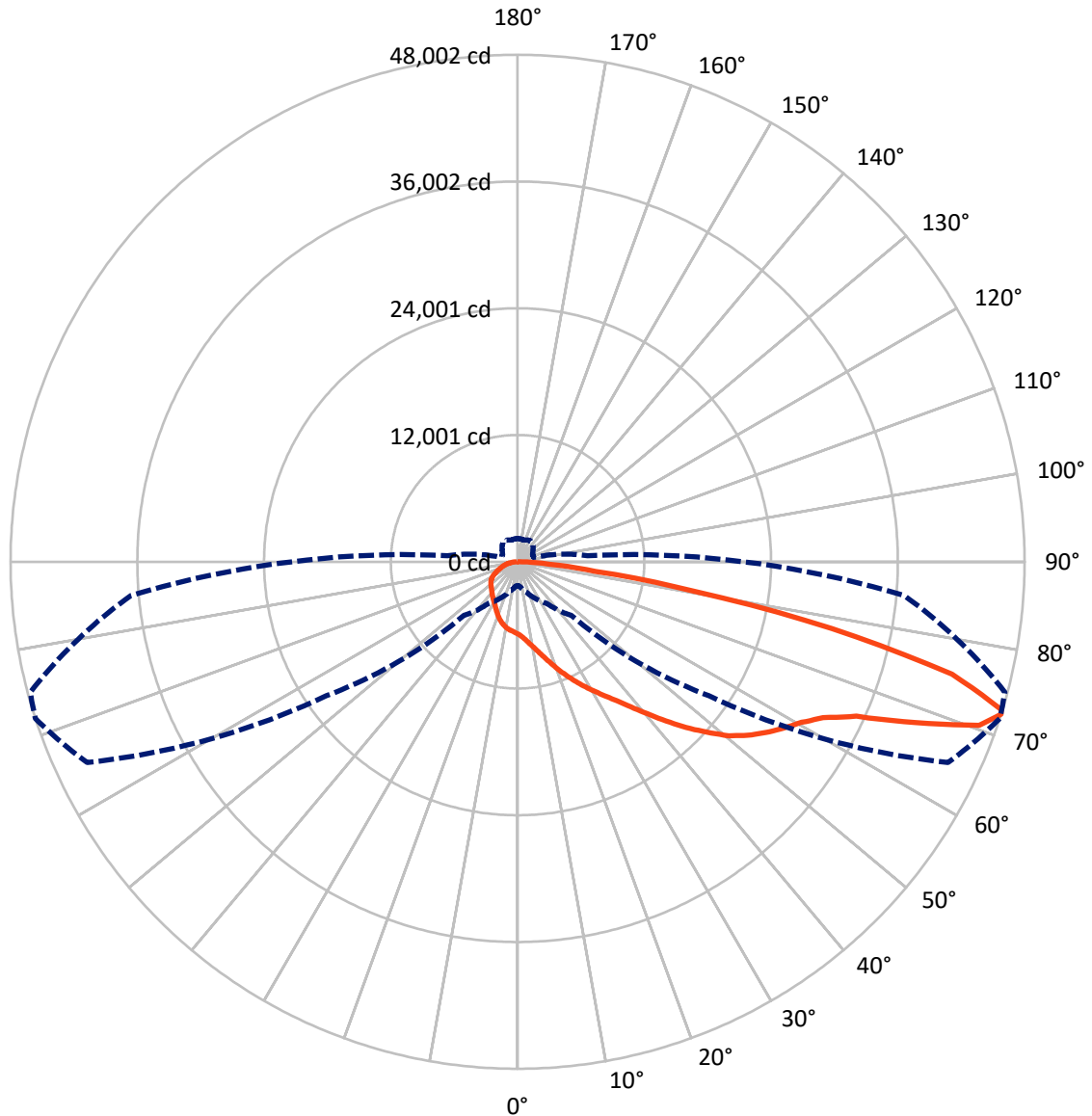
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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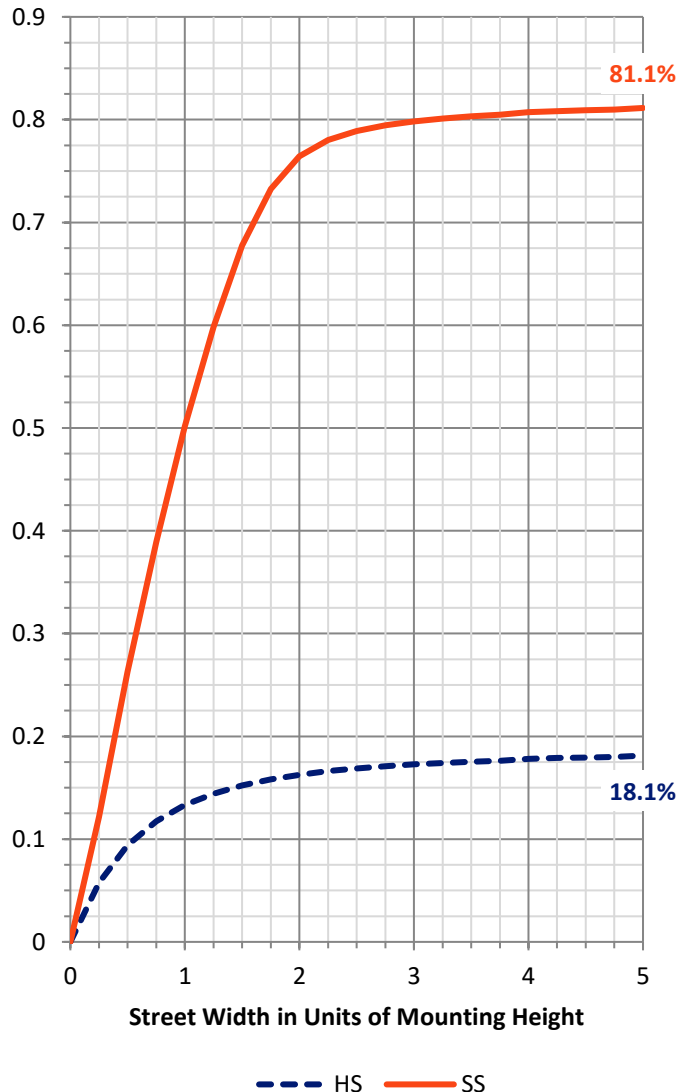
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10309.2	0.0	10309.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	45263.8	0.0	45263.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	55573.0	0.0	55573.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	685.1	1.2
10°-20°	2213.8	4.0
20°-30°	3879.4	7.0
30°-40°	5751.9	10.4
40°-50°	8412.6	15.1
50°-60°	11575.6	20.8
60°-70°	12887.1	23.2
70°-80°	8732.3	15.7
80°-90°	1435.2	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°	55573.0	100.0
0°-180°	55573.0	100.0

Coefficient of Utilization

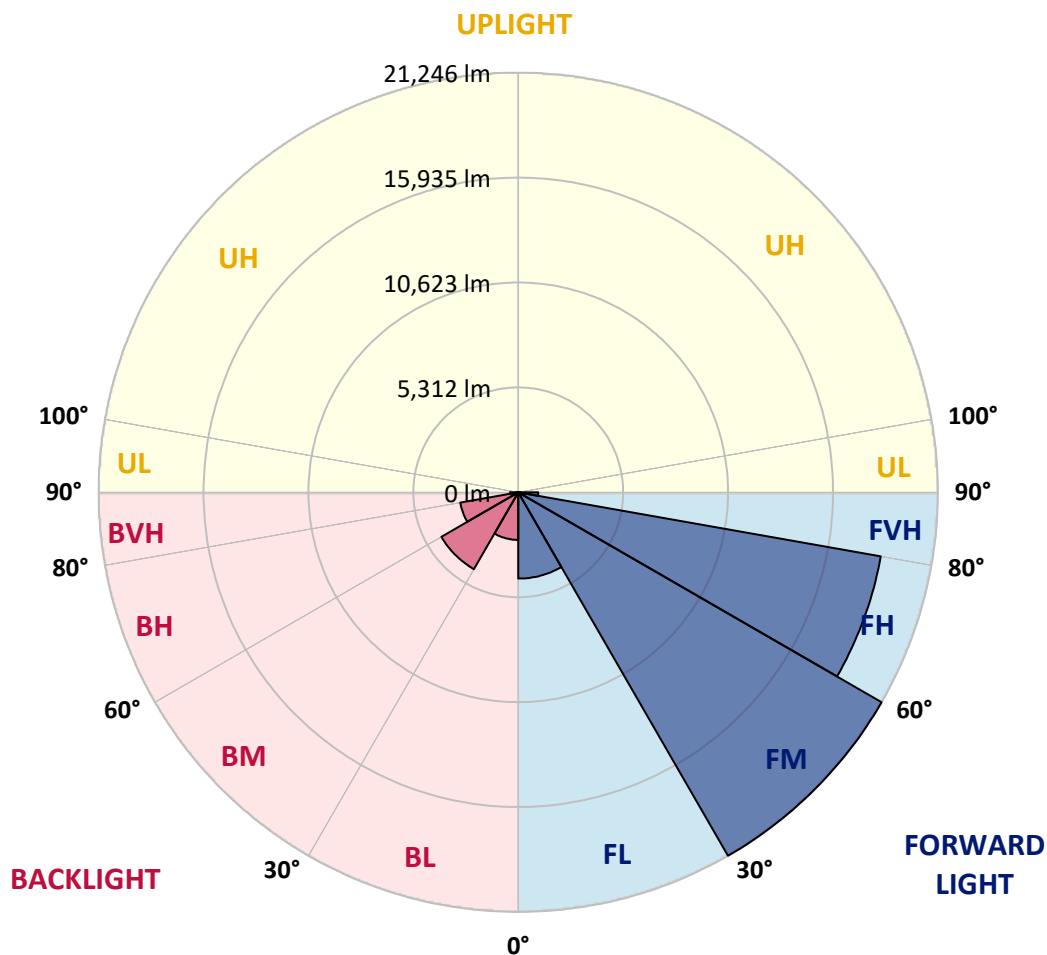


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4368.4	7.9			
FM (30°-60°)	21246.2	38.2			
FH (60°-80°)	18636.8	33.5			G5
FVH (80°-90°)	1012.4	1.8			G5
BL (0°-30°)	2409.9	4.3	B3/2500		
BM (30°-60°)	4493.8	8.1	B3/5000		
BH (60°-80°)	2982.6	5.4	B4/5000		G4/5000
BVH (80°-90°)	422.8	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	6836.9	6836.9	6836.9	6836.9	6836.9	6836.9	6836.9	6836.9	6836.9	6836.9	6836.9
2.5°	7552.6	7541.1	7500.9	7500.9	7424.4	7359.3	7236.8	7154.6	7057.0	7022.5	6907.7
5°	8283.5	8287.4	8237.6	8203.2	8090.3	7952.5	7743.9	7554.5	7365.1	7288.5	7053.2
7.5°	8897.8	8890.1	8876.7	8848.0	8742.8	8601.2	8319.9	8038.6	7759.2	7644.4	7238.8
10°	9291.9	9309.2	9320.6	9334.0	9290.0	9188.6	8922.6	8580.1	8214.6	8057.7	7460.7
12.5°	9491.0	9521.6	9575.1	9667.0	9739.7	9728.2	9535.0	9171.4	8737.0	8539.9	7738.2
15°	9607.7	9647.9	9732.1	9896.6	10101.4	10218.1	10166.4	9837.3	9353.2	9110.2	8076.9
17.5°	9680.4	9712.9	9843.0	10063.1	10367.3	10677.3	10813.2	10537.6	10049.7	9772.2	8465.3
20°	9730.1	9755.0	9917.7	10176.0	10570.2	11063.8	11442.7	11373.8	10817.0	10457.3	8871.0
22.5°	9841.1	9862.2	10017.2	10277.4	10713.7	11350.9	12049.3	12152.6	11626.4	11218.8	9305.3
25°	10151.1	10151.1	10281.2	10463.0	10872.5	11599.6	12562.1	13019.4	12453.0	11978.5	9707.2
27.5°	10742.4	10736.6	10784.5	10847.6	11157.6	11852.2	13019.4	13784.8	13310.3	12791.7	10097.5
30°	11442.7	11481.0	11486.7	11456.1	11601.5	12167.9	13442.3	14592.3	14173.3	13614.5	10497.5
32.5°	12344.0	12368.9	12340.1	12238.7	12217.7	12615.7	13857.6	15438.1	15107.1	14473.7	10862.9
35°	13488.2	13440.4	13350.5	13143.8	12946.7	13214.6	14332.1	16283.9	16155.7	15512.7	11366.2
37.5°	14714.8	14716.7	14605.7	14136.9	13865.2	13980.0	14986.5	17242.5	17424.3	16748.8	12011.0
40°	15698.3	15750.0	15818.9	15202.7	14850.7	15009.5	15818.9	18354.3	18924.5	18214.6	12851.1
42.5°	16385.3	16444.6	16639.8	16253.3	15887.8	16182.5	16798.6	19540.6	20608.4	19906.1	13834.6
45°	17112.4	17144.9	17282.7	17116.2	16882.8	17546.8	17902.7	20769.1	22389.8	21708.6	14934.9
47.5°	17877.8	17912.3	18053.9	17942.9	17820.4	18821.2	19054.6	21926.8	24096.7	23689.1	16109.7
50°	18823.1	18846.0	18980.0	18779.1	18817.3	19781.7	20084.1	22988.8	25885.8	25468.7	17288.5
52.5°	20112.8	20118.5	20304.1	20122.3	19942.5	20485.9	20970.0	23989.5	27288.4	27091.3	18467.2
55°	21123.1	21184.3	21792.8	21754.6	21651.2	21125.0	21710.5	24942.4	28539.8	28633.6	19718.6
57.5°	20478.3	20717.4	21949.7	22818.5	23664.2	22715.1	22711.3	26015.9	29703.2	30147.2	21094.4
60°	17935.2	18260.5	20076.4	22003.3	24649.7	25482.1	24789.4	27326.7	30878.1	31647.3	22818.5
62.5°	12809.0	13344.7	15805.5	18882.4	23298.8	27315.2	29018.2	29406.6	32475.9	33384.8	25059.2
65°	6475.3	6880.9	8943.7	12650.1	18614.5	26117.3	33614.4	33960.8	35252.4	36059.9	28509.2
67.5°	3934.2	4087.2	5093.7	7035.9	11412.1	20344.3	35114.6	41551.6	40625.5	41054.1	33428.8
70°	2898.9	3011.8	3639.5	4672.8	6563.3	11938.3	30510.7	46968.7	46360.2	46312.4	37064.5
72°	2257.9	2340.2	2895.1	3775.3	4799.1	7162.2	22114.3	44969.1	48002.0	47760.9	36731.5
72.5°	2141.2	2213.9	2719.1	3553.4	4535.0	6492.5	19883.2	43620.1	47883.4	47774.3	36301.0
75°	1685.8	1737.5	2013.0	2747.8	3549.5	3683.5	10895.5	33803.9	42477.7	44243.9	32650.0
77.5°	1394.9	1402.6	1548.0	1999.6	2766.9	2604.3	5352.1	23453.7	30417.0	32359.2	23128.5
80°	1136.6	1146.2	1215.1	1402.6	2093.4	1926.9	2541.1	13486.3	17030.1	17051.2	10998.8
82.5°	905.1	907.0	983.5	1025.6	1504.0	1377.7	1456.2	6331.8	7441.6	7158.4	3953.3
85°	637.2	623.8	960.6	841.9	983.5	884.0	803.7	2506.7	3076.9	2943.0	1238.0
87.5°	212.4	220.1	426.7	545.3	574.0	501.3	357.8	960.6	1161.5	1151.9	392.3
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°	6836.9	6836.9	6836.9	6836.9	6836.9	6836.9	6836.9	6836.9	6836.9	6836.9	6836.9
2.5°	6871.4	6810.1	6720.2	6620.7	6542.3	6461.9	6402.6	6371.9	6337.5	6308.8	6343.2
5°	6944.1	6829.3	6637.9	6450.4	6312.6	6190.2	6102.1	6056.2	6014.1	5985.4	5989.2
7.5°	7062.7	6877.1	6555.6	6282.0	6090.7	5958.6	5868.7	5838.1	5811.3	5803.6	5813.2
10°	7189.0	6915.4	6446.6	6083.0	5864.9	5755.8	5715.6	5736.7	5755.8	5773.0	5792.2
12.5°	7332.5	6949.8	6287.8	5849.6	5664.0	5621.9	5662.0	5753.9	5820.9	5861.0	5885.9
15°	7520.0	6980.4	6104.1	5616.1	5491.7	5539.6	5675.4	5834.3	5951.0	6025.6	6037.1
17.5°	7692.3	6978.5	5868.7	5380.8	5352.1	5491.7	5696.5	5920.4	6077.3	6182.5	6203.6
20°	7870.2	6926.9	5595.1	5151.1	5210.5	5440.1	5706.1	5975.9	6165.3	6287.8	6316.5
22.5°	8036.7	6836.9	5294.6	4942.6	5091.8	5371.2	5669.7	5943.3	6132.8	6232.3	6262.9
25°	8149.6	6680.0	4990.4	4766.5	4986.6	5287.0	5551.1	5771.1	5912.7	5962.5	5970.1
27.5°	8207.0	6475.3	4703.4	4613.4	4877.5	5149.2	5331.0	5440.1	5480.3	5476.4	5468.8
30°	8214.6	6205.5	4456.5	4489.1	4751.2	4946.4	5032.5	5011.5	4959.8	4871.8	4879.4
32.5°	8189.8	5901.2	4249.9	4370.4	4590.5	4699.6	4703.4	4602.0	4464.2	4324.5	4286.2
35°	8197.4	5602.7	4068.1	4236.5	4395.3	4443.1	4399.1	4249.9	4062.4	3882.5	3844.2
37.5°	8281.6	5342.5	3911.2	4081.5	4179.1	4190.6	4127.4	3970.5	3832.7	3656.7	3641.4
40°	8482.5	5156.9	3761.9	3907.4	3962.9	3968.6	3878.7	3767.7	3779.2	3685.4	3683.5
42.5°	8844.2	5076.5	3629.9	3725.6	3760.0	3771.5	3702.6	3631.8	3731.3	3670.1	3649.0
45°	9311.1	5095.6	3518.9	3547.6	3610.8	3664.3	3622.3	3536.1	3574.4	3308.4	3220.4
47.5°	9850.7	5218.1	3430.9	3394.5	3503.6	3605.0	3540.0	3409.9	3274.0	3009.9	2960.2
50°	10482.1	5407.5	3350.5	3243.4	3386.9	3524.7	3459.6	3274.0	3069.3	2941.0	2923.8
52.5°	11140.4	5639.1	3270.2	3076.9	3239.6	3463.4	3430.9	3243.4	2990.8	2864.5	2841.5
55°	11886.7	5872.5	3168.8	2883.6	3080.7	3434.7	3417.5	3132.4	2931.5	2860.7	2843.5
57.5°	12814.7	6138.5	3034.8	2682.7	2931.5	3331.4	3277.8	3065.4	2870.2	2816.7	2810.9
60°	14024.0	6530.8	2841.5	2468.4	2749.7	3172.6	3161.1	2967.8	2772.7	2734.4	2726.7
62.5°	15838.0	7179.4	2575.6	2254.1	2546.9	2902.8	3008.0	2835.8	2669.3	2667.4	2671.2
65°	18650.9	8155.3	2286.6	2066.6	2342.1	2675.1	2830.1	2699.9	2564.1	2602.4	2608.1
67.5°	21911.5	8964.7	2003.4	1882.9	2133.6	2458.8	2669.3	2564.1	2424.4	2523.9	2525.8
70°	22996.4	8241.4	1754.7	1701.1	1917.3	2250.3	2495.2	2414.8	2273.2	2372.7	2363.2
72°	21400.6	6653.2	1593.9	1563.3	1754.7	2078.1	2340.2	2275.1	2135.5	2202.4	2177.6
72.5°	20897.3	6343.2	1553.8	1528.9	1710.7	2034.0	2300.0	2240.7	2101.0	2158.4	2135.5
75°	18641.3	5509.0	1335.6	1341.4	1492.5	1819.7	2074.2	2055.1	1911.6	1917.3	1909.7
77.5°	13520.8	4039.4	1125.1	1163.4	1270.6	1599.7	1846.5	1835.0	1678.1	1649.4	1643.7
80°	6274.4	2060.8	916.6	933.8	1044.8	1337.5	1574.8	1559.5	1433.2	1396.9	1375.8
82.5°	2148.9	979.7	688.9	700.3	809.4	1077.3	1366.2	1356.7	1251.4	1180.6	1136.6
85°	767.3	487.9	482.2	470.7	577.9	847.7	1190.2	1138.5	983.5	838.1	834.3
87.5°	248.8	208.6	248.8	246.8	336.8	574.0	864.9	736.7	713.7	593.2	581.7
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)