

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: P317494

Luminaire Tested: **GAN-SA0C-750-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317494
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-SA0C-750-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 72935 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

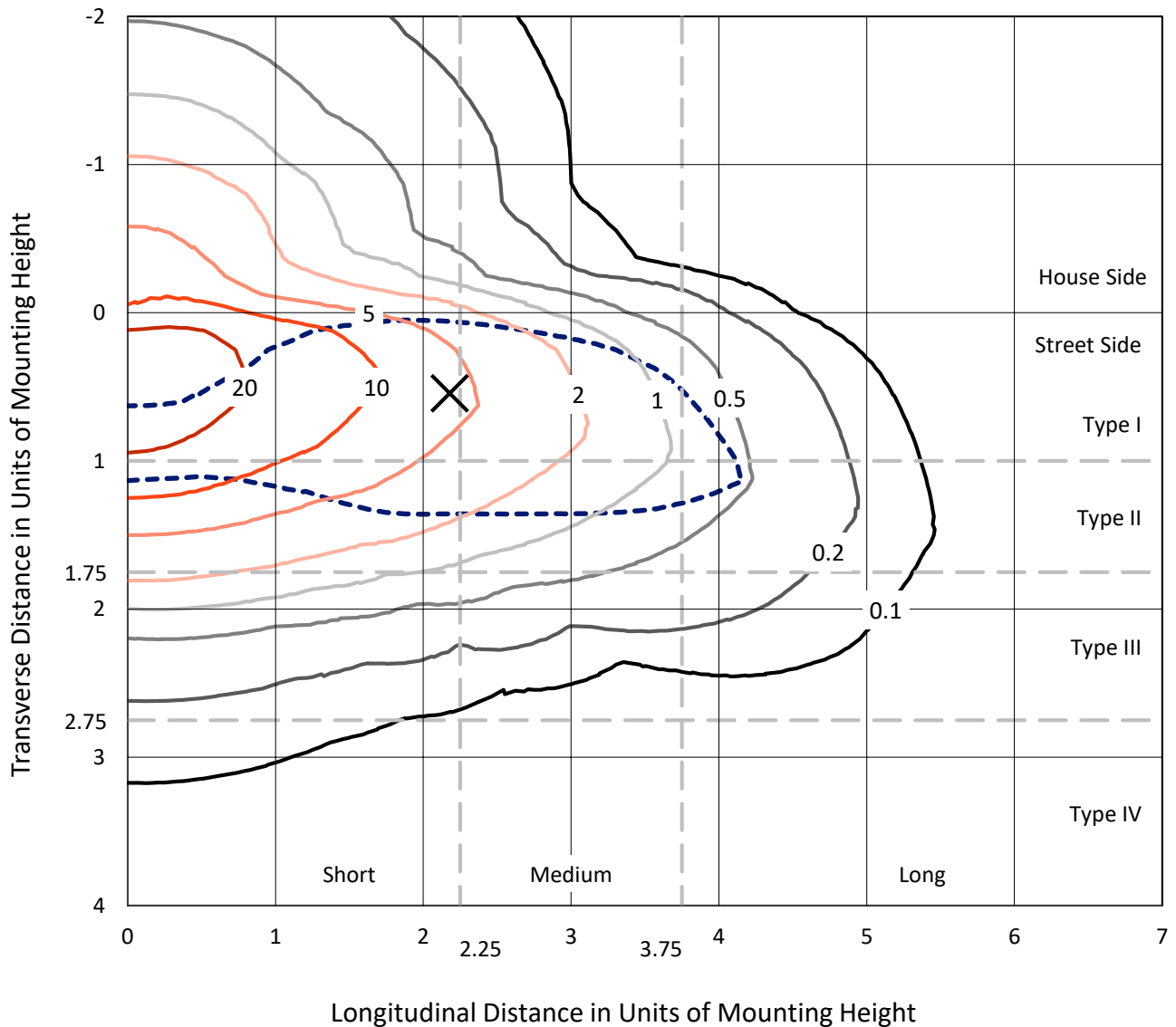
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

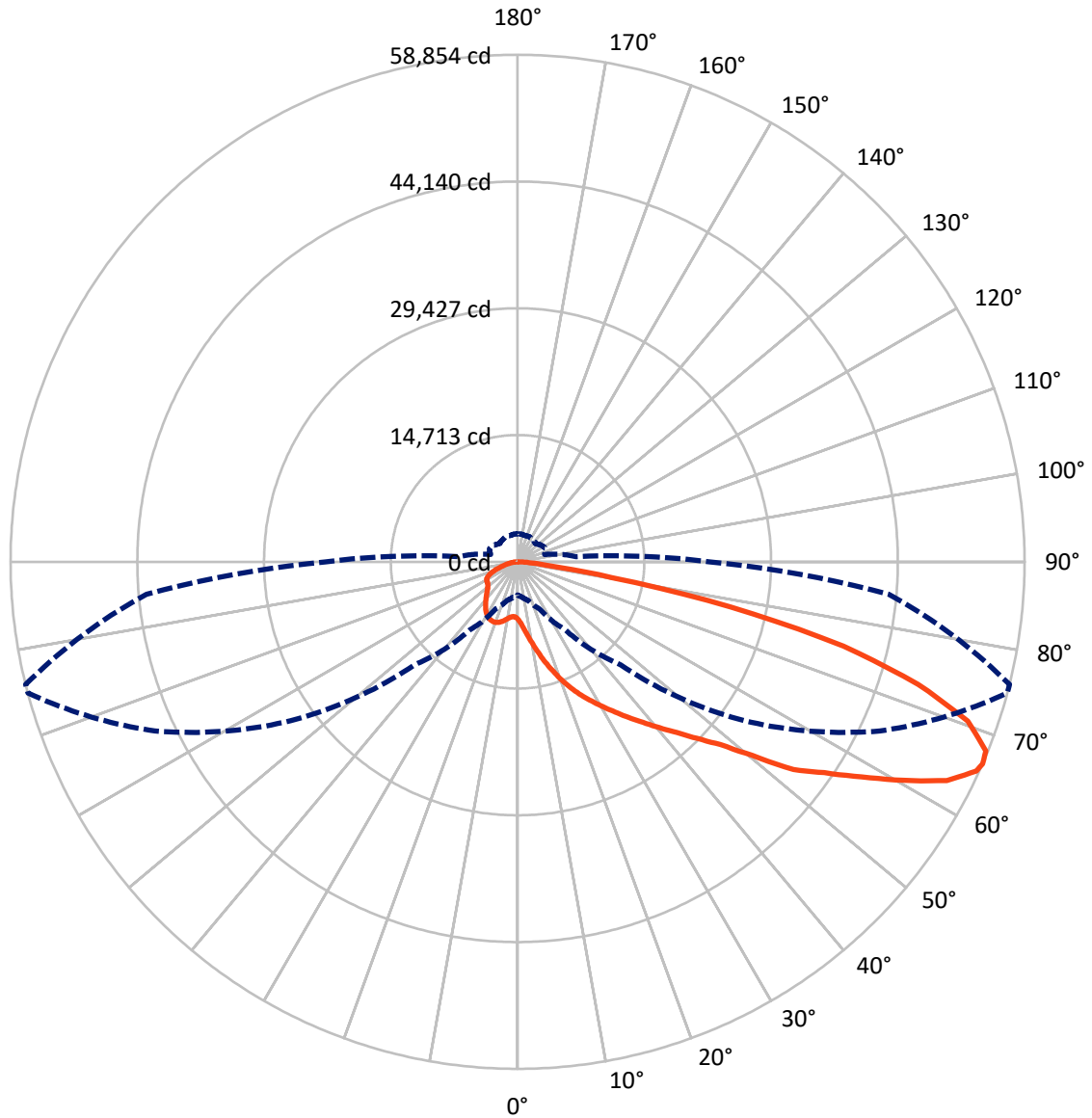
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.3 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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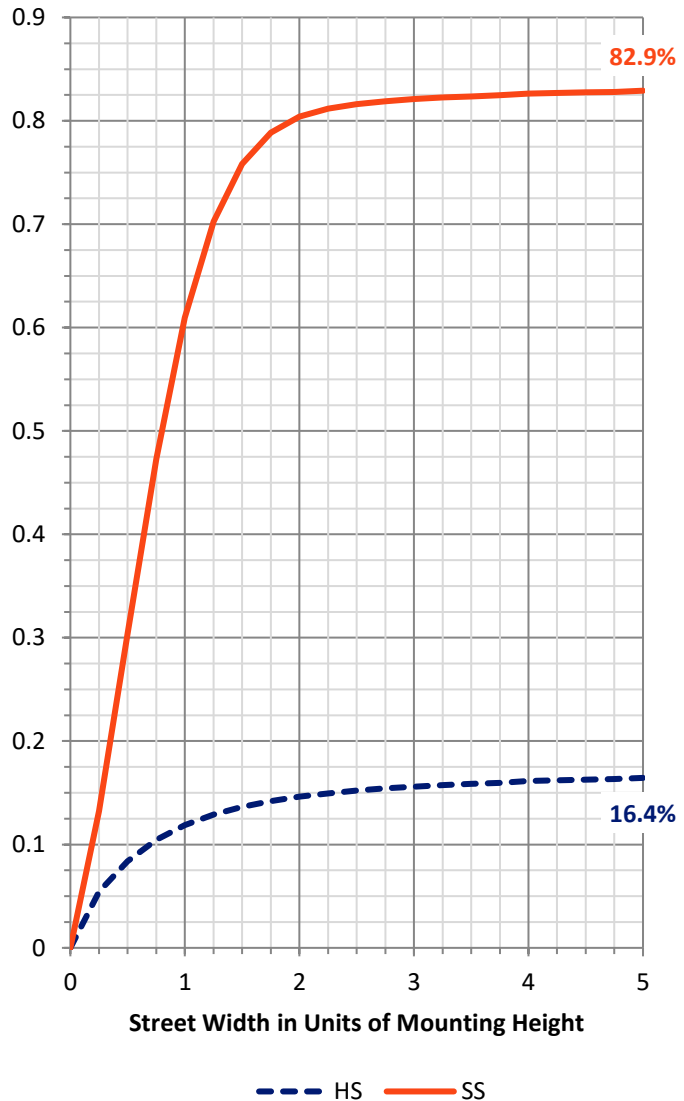
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12272.5	0.0	12272.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	60662.5	0.0	60662.5
	% Fixture	83.2	0.0	83.2
Total	Lumens	72935.0	0.0	72935.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	805.4	1.1
10°-20°	3180.7	4.4
20°-30°	6180.8	8.5
30°-40°	10088.4	13.8
40°-50°	13783.2	18.9
50°-60°	16054.7	22.0
60°-70°	14393.3	19.7
70°-80°	7273.8	10.0
80°-90°	1174.6	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°	72935.0	100.0
0°-180°	72935.0	100.0

Coefficient of Utilization

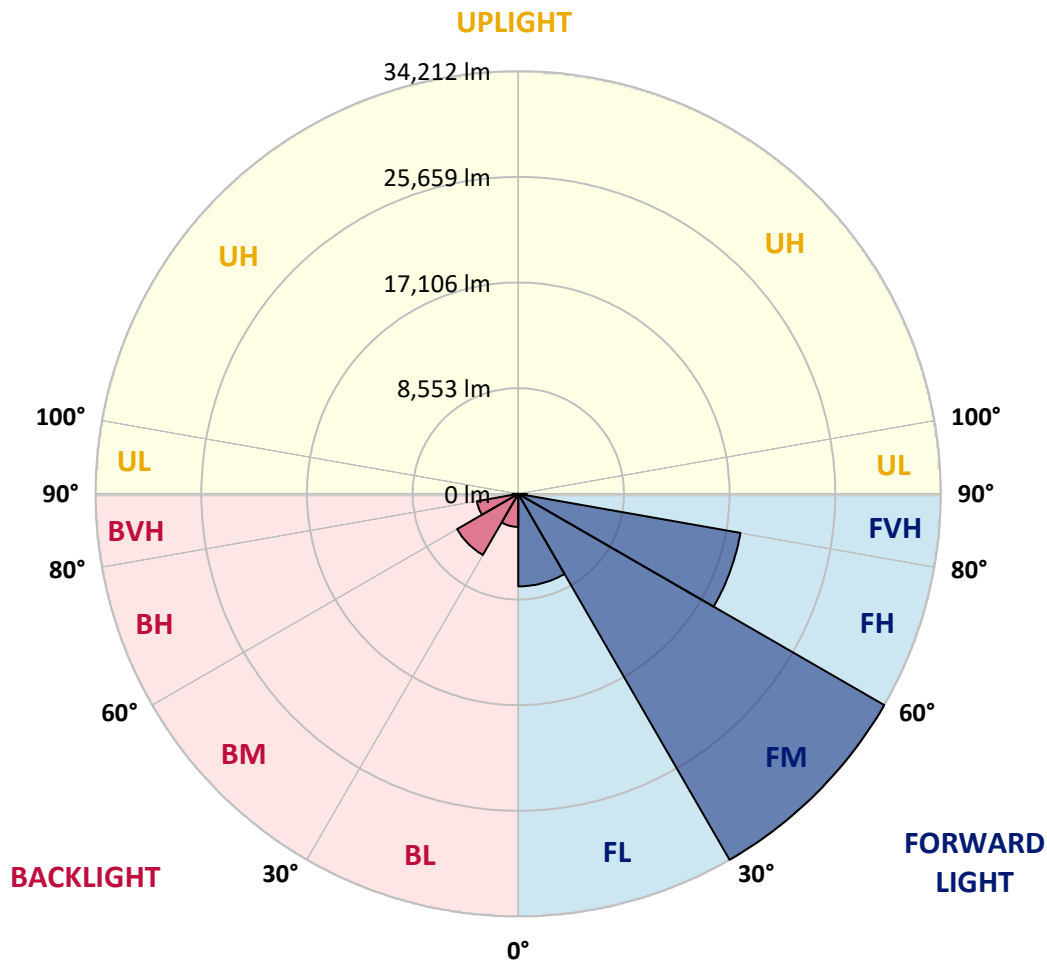


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7490.2	10.3			
FM (30°-60°)	34211.6	46.9			
FH (60°-80°)	18267.1	25.0			G5
FVH (80°-90°)	693.7	1.0			G4/750
BL (0°-30°)	2676.7	3.7	B4/5000		
BM (30°-60°)	5714.8	7.8	B4/8500		
BH (60°-80°)	3400.0	4.7	B4/5000		G4/5000
BVH (80°-90°)	480.9	0.7			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6660.6	6660.6	6660.6	6660.6	6660.6	6660.6	6660.6	6660.6	6660.6	6660.6	6660.6
2.5°	8842.0	8708.3	8695.9	8500.3	8455.8	8081.9	7807.0	7519.8	7193.0	7128.6	6871.1
5°	11357.7	11345.3	11174.5	10855.1	10605.0	9966.2	9334.8	8666.2	7933.3	7814.5	7235.1
7.5°	13620.8	13601.0	13469.8	13125.6	12764.1	11979.2	11077.9	10052.8	8864.3	8688.5	7727.8
10°	15339.2	15331.8	15287.2	15034.7	14727.6	13974.9	12979.5	11580.5	9946.3	9706.2	8344.3
12.5°	16666.4	16681.2	16711.0	16621.8	16475.7	15834.4	14814.3	13199.9	11100.2	10862.5	9030.2
15°	17565.2	17609.8	17763.3	17889.6	17966.3	17572.6	16584.7	14856.4	12392.7	12107.9	9790.4
17.5°	18018.3	18067.8	18332.8	18714.1	19065.7	19026.1	18241.2	16436.1	13633.2	13358.4	10607.5
20°	18409.5	18446.7	18743.8	19201.9	19823.4	20098.2	19657.5	17956.4	14992.6	14665.7	11474.1
22.5°	19543.6	19590.6	19679.8	19939.7	20489.4	20994.5	20781.6	19395.0	16238.0	15933.5	12296.1
25°	21732.4	21789.4	21596.2	21375.9	21479.8	21831.5	21871.1	20707.3	17500.8	17156.6	13180.1
27.5°	24369.4	24451.1	24121.8	23554.8	23059.6	22923.4	22876.3	21781.9	18706.7	18308.0	14054.1
30°	26951.9	27093.1	26664.7	25929.3	25020.6	24381.8	23908.9	22834.3	19895.2	19513.9	14878.7
32.5°	29475.1	29418.1	28796.6	28078.6	27013.9	26214.1	25070.1	23963.3	21232.2	20794.0	15698.2
35°	31203.4	31223.2	30646.2	29794.5	28779.3	28165.2	26625.1	25181.6	22596.6	22193.0	16629.2
37.5°	32674.1	32582.5	31928.8	31134.0	30260.0	29997.5	28445.0	26523.6	24074.8	23634.0	17619.7
40°	33164.4	33057.9	32629.6	32057.6	31356.9	31334.6	30453.1	28043.9	25746.1	25310.3	18736.4
42.5°	32867.3	32731.1	32555.3	32399.3	32183.9	32282.9	32339.9	29826.7	27583.3	27095.6	20028.9
45°	31770.4	31564.9	31688.7	32027.9	32495.9	33055.4	34043.4	31800.1	29641.0	29232.4	21546.7
47.5°	30084.2	29898.5	30284.7	31010.2	32282.9	33699.2	35655.3	33979.0	32097.2	31691.1	23708.3
50°	27712.1	27766.6	28318.7	29638.5	31562.4	33996.4	37641.1	36863.6	35667.7	35288.9	26657.3
52.5°	23819.7	23829.6	25384.6	27551.2	30284.7	33842.8	38743.0	40550.5	40543.1	40085.0	29465.2
55°	20204.7	20425.0	21655.7	24535.3	28214.7	33228.8	39513.0	42343.2	43744.6	43207.3	32082.4
57.5°	16673.8	16802.6	17968.8	20860.8	25260.8	31592.1	40302.9	44494.9	47433.9	47094.7	35335.9
60°	12657.6	12855.7	14061.6	16733.2	21482.3	28687.7	40377.2	46740.6	51843.8	51502.1	38968.3
62.5°	8215.6	8557.3	9686.4	12189.7	16911.5	24510.6	38653.8	48209.0	56023.4	55902.1	42192.1
65°	4721.9	4979.4	5764.3	7695.6	11667.2	19266.2	34555.9	47644.4	58596.0	58526.7	43398.0
66°	3857.7	4018.7	4620.3	6014.4	9626.9	16918.9	32174.0	46453.4	58851.1	58853.6	43259.3
67.5°	3085.2	3157.0	3426.9	4305.9	7103.8	13410.4	27917.6	43826.3	58534.1	58620.8	42365.4
70°	2552.8	2590.0	2674.1	2887.1	3877.5	8086.8	19815.9	36999.8	55352.4	55419.3	38876.7
72.5°	2290.4	2312.6	2344.8	2374.5	2736.1	4518.8	12103.0	29598.9	48530.8	48617.5	33560.6
75°	2074.9	2087.3	2082.4	2084.8	2295.3	2879.7	6254.5	22098.9	39240.7	39067.3	25709.0
77.5°	1822.4	1834.8	1810.0	1815.0	2030.4	2213.6	3112.4	15470.4	26481.5	25258.3	14485.0
80°	1540.1	1550.0	1540.1	1557.4	1767.9	1671.3	1810.0	8703.4	11709.3	11075.4	5150.2
82.5°	1163.7	1205.8	1235.6	1304.9	1455.9	1188.5	1210.8	3389.7	3565.5	3394.7	1579.7
85°	510.1	621.5	931.0	997.9	1094.4	713.1	794.8	1381.6	1451.0	1406.4	574.4
87.5°	133.7	146.1	460.5	579.4	606.6	321.9	413.5	628.9	663.6	628.9	190.7
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°	6660.6	6660.6	6660.6	6660.6	6660.6	6660.6	6660.6	6660.6	6660.6	6660.6	6660.6
2.5°	6734.9	6613.6	6395.7	6202.5	6056.5	5957.4	5858.4	5808.8	5779.1	5749.4	5754.4
5°	6950.3	6705.2	6331.3	6066.4	5917.8	5823.7	5774.2	5754.4	5742.0	5712.3	5712.3
7.5°	7274.7	6928.0	6413.0	6140.6	6024.3	5952.5	5922.7	5912.8	5898.0	5863.3	5868.3
10°	7683.2	7197.9	6583.9	6318.9	6212.4	6133.2	6091.1	6076.3	6049.0	6009.4	6014.4
12.5°	8163.6	7532.2	6809.2	6531.9	6403.1	6296.6	6227.3	6185.2	6138.2	6086.2	6088.6
15°	8688.5	7896.2	7051.8	6722.5	6546.7	6398.1	6286.7	6214.9	6140.6	6076.3	6073.8
17.5°	9220.9	8247.8	7237.5	6826.5	6588.8	6393.2	6242.2	6130.7	6039.1	5959.9	5952.5
20°	9795.3	8564.7	7341.5	6816.6	6509.6	6276.8	6076.3	5937.6	5836.1	5756.8	5744.5
22.5°	10379.7	8861.8	7358.9	6715.1	6333.8	6049.0	5838.6	5685.0	5581.0	5499.3	5469.6
25°	10914.5	9092.1	7287.1	6519.5	6088.6	5781.6	5576.1	5420.1	5335.9	5239.4	5209.6
27.5°	11402.3	9253.0	7143.4	6269.4	5813.8	5511.7	5318.6	5184.9	5093.3	5019.0	4994.2
30°	11840.5	9339.7	6908.2	5972.3	5531.5	5256.7	5093.3	5001.6	4922.4	4828.3	4811.0
32.5°	12256.5	9339.7	6606.1	5647.9	5251.7	5031.4	4934.8	4877.8	4788.7	4697.1	4672.3
35°	12672.5	9282.8	6249.6	5308.7	4994.2	4870.4	4865.5	4798.6	4662.4	4538.6	4506.4
37.5°	13110.8	9166.4	5848.5	4991.7	4783.8	4798.6	4840.7	4692.1	4499.0	4323.2	4276.2
40°	13606.0	9005.4	5432.5	4716.9	4608.0	4766.4	4773.9	4538.6	4162.3	4001.3	3959.2
42.5°	14187.8	8844.5	5046.2	4474.2	4469.3	4669.9	4647.6	4206.8	3981.5	3899.8	3877.5
45°	14952.9	8752.9	4679.8	4244.0	4360.3	4513.9	4432.2	4023.6	3929.5	3882.5	3862.7
47.5°	16158.8	8799.9	4343.0	4060.7	4251.4	4357.9	4031.0	3949.3	3882.5	3825.5	3805.7
50°	17669.2	8772.7	4070.6	3934.5	4127.6	4194.5	3850.3	3852.8	3818.1	3753.7	3724.0
52.5°	18805.7	8559.8	3894.8	3862.7	4018.7	3904.8	3736.4	3758.7	3741.3	3647.2	3615.1
55°	19902.6	8376.5	3805.7	3835.4	3939.4	3543.2	3602.7	3657.1	3639.8	3548.2	3533.3
57.5°	21266.9	8341.9	3751.2	3842.9	3872.6	3362.5	3473.9	3545.7	3533.3	3493.7	3486.3
60°	22938.3	8351.8	3701.7	3855.2	3798.3	3228.8	3352.6	3444.2	3451.6	3444.2	3439.3
62.5°	23856.9	8081.9	3577.9	3820.6	3667.0	3112.4	3226.3	3360.0	3362.5	3377.4	3374.9
65°	23076.9	7274.7	3347.6	3699.2	3446.7	3015.8	3117.4	3263.5	3226.3	3293.2	3293.2
66°	22319.2	6809.2	3233.7	3620.0	3352.6	2978.7	3082.7	3213.9	3166.9	3258.5	3258.5
67.5°	20771.7	6024.3	3028.2	3451.6	3218.9	2926.7	3043.1	3132.2	3067.8	3204.0	3194.1
70°	17944.0	4660.0	2614.7	3070.3	2998.5	2849.9	2988.6	2968.8	2874.7	3082.7	3043.1
72.5°	15128.7	3540.8	2099.7	2570.2	2664.2	2753.4	2911.9	2760.8	2642.0	2788.0	2701.4
75°	11739.0	2661.8	1659.0	1998.2	2250.7	2602.3	2820.2	2520.6	2349.8	2334.9	2287.9
77.5°	6346.2	1827.3	1314.8	1525.3	1787.7	2414.2	2758.3	2263.1	2005.6	1946.2	1909.0
80°	2513.2	1188.5	955.8	1156.3	1250.4	2141.8	2609.8	1963.5	1654.0	1594.6	1537.6
82.5°	1037.5	703.2	616.5	775.0	814.6	1832.3	2342.4	1609.4	1277.6	1767.9	1876.9
85°	445.7	386.3	366.5	401.1	460.5	1285.1	1864.5	1228.1	1379.2	1230.6	978.0
87.5°	133.7	163.4	156.0	153.5	168.4	307.0	992.9	683.4	1012.7	383.8	287.2
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)