

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: P317410

Luminaire Tested: **GAN-SA6C-730-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317410
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-SA6C-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 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: 40137 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

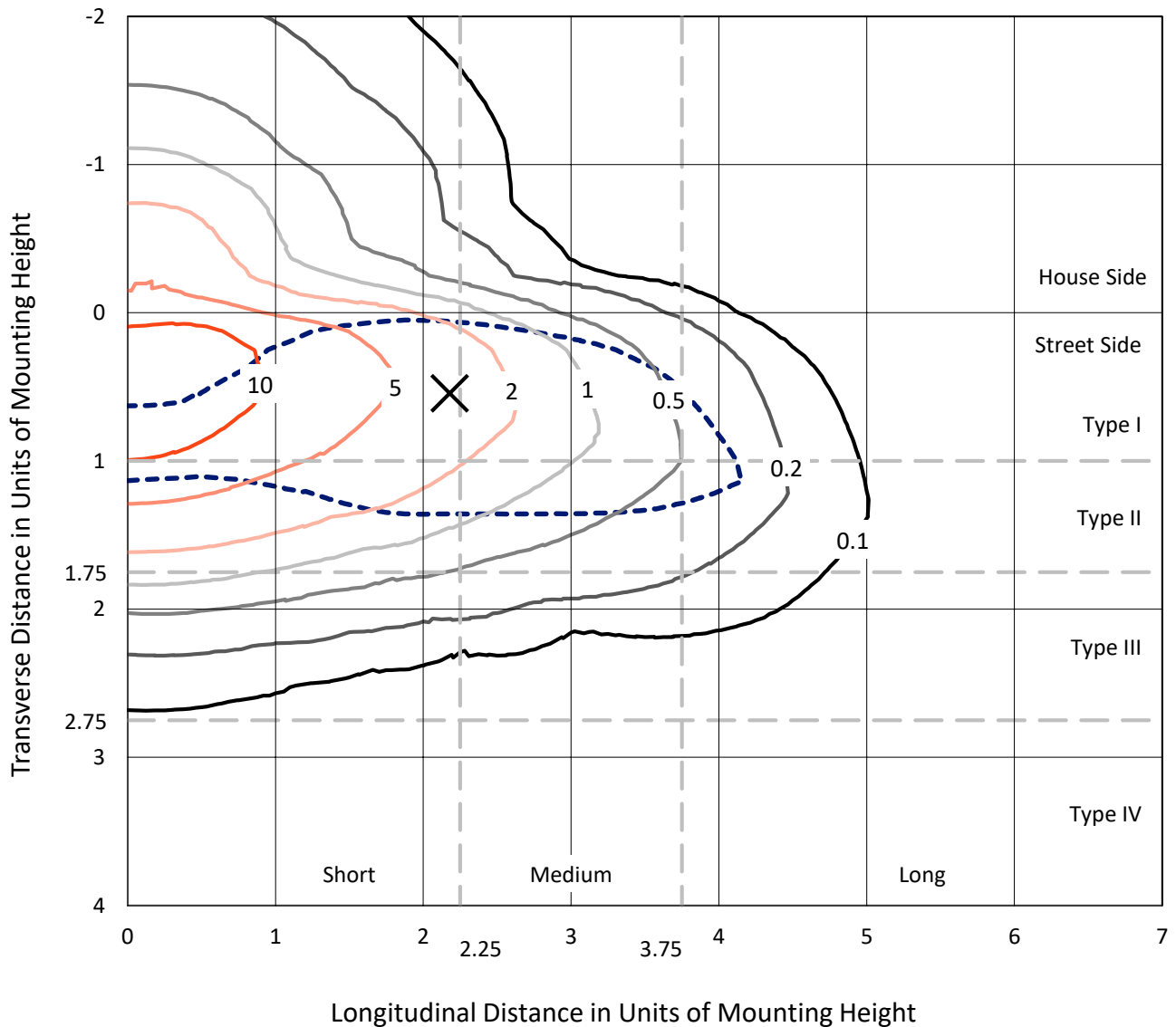
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

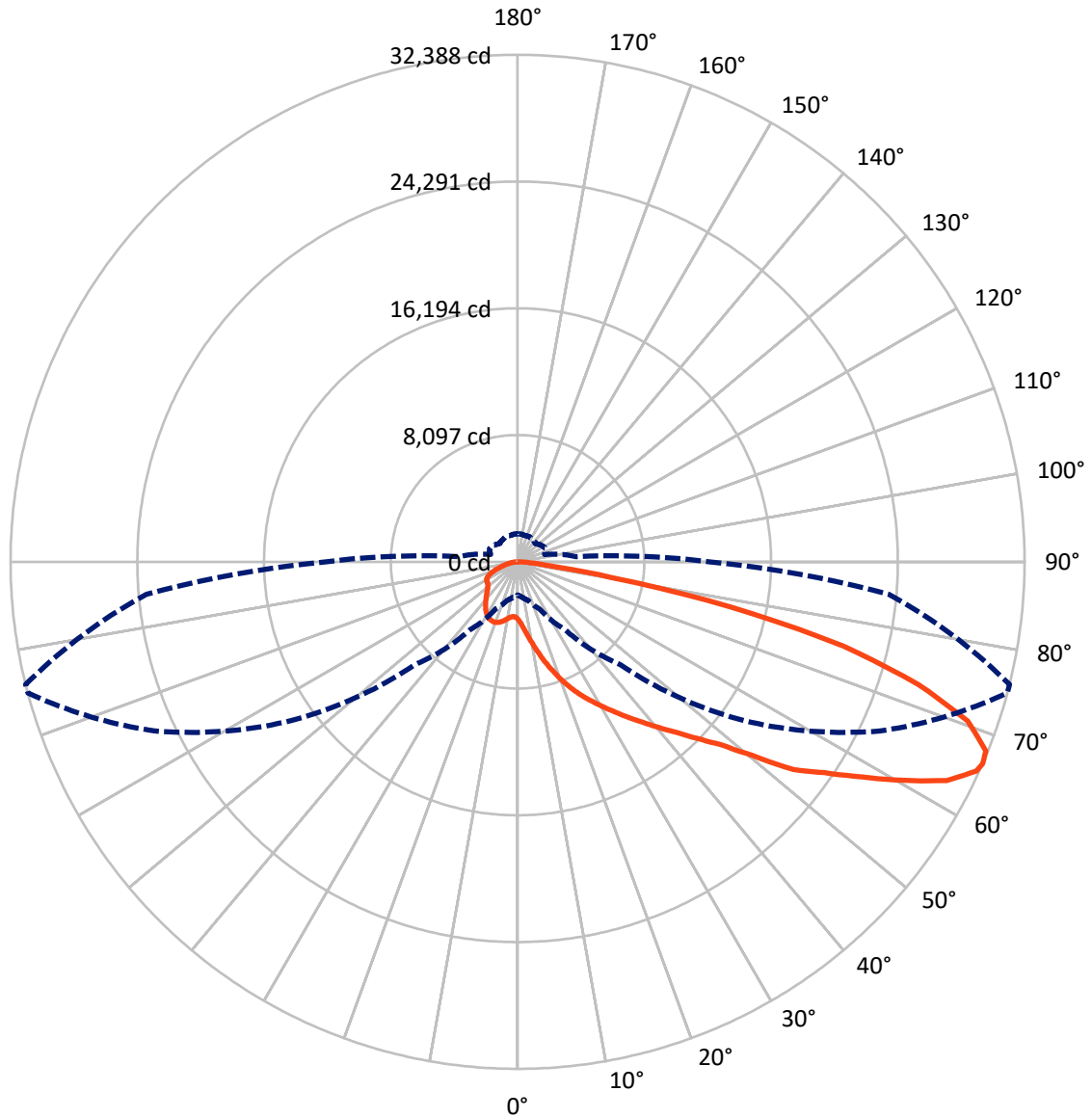
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 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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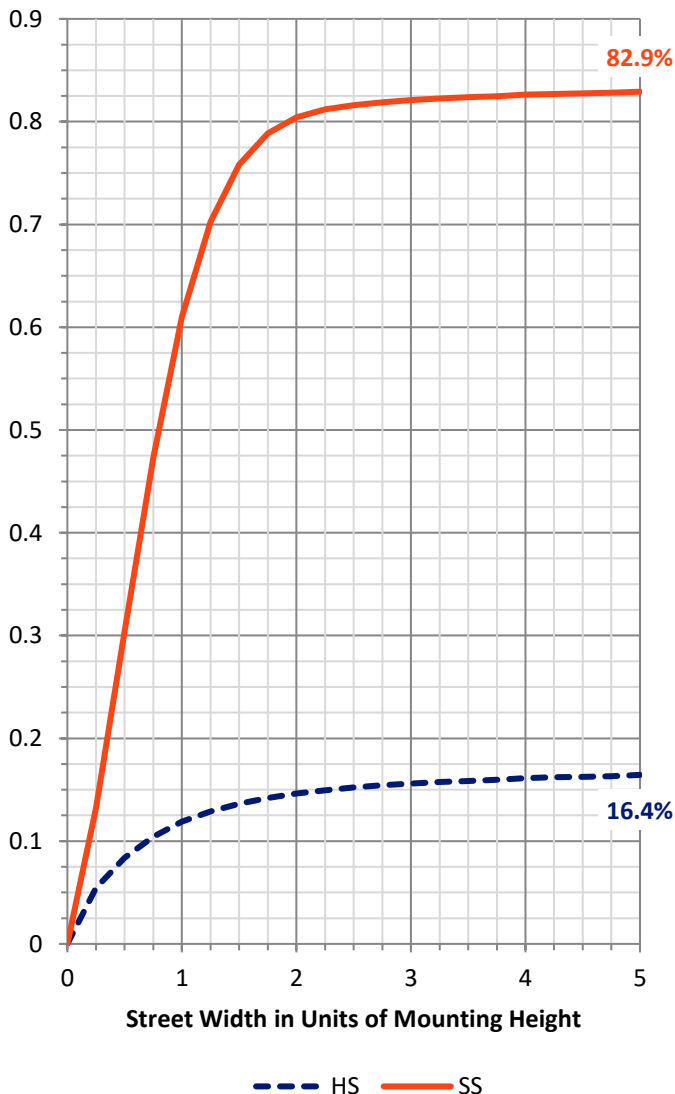
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6753.7	0.0	6753.7
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	33383.3	0.0	33383.3
	% Fixture	83.2	0.0	83.2
Total	Lumens	40137.0	0.0	40137.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.2	1.1
10°-20°	1750.4	4.4
20°-30°	3401.4	8.5
30°-40°	5551.8	13.8
40°-50°	7585.1	18.9
50°-60°	8835.1	22.0
60°-70°	7920.8	19.7
70°-80°	4002.8	10.0
80°-90°	646.4	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°	40137.0	100.0
0°-180°	40137.0	100.0

Coefficient of Utilization

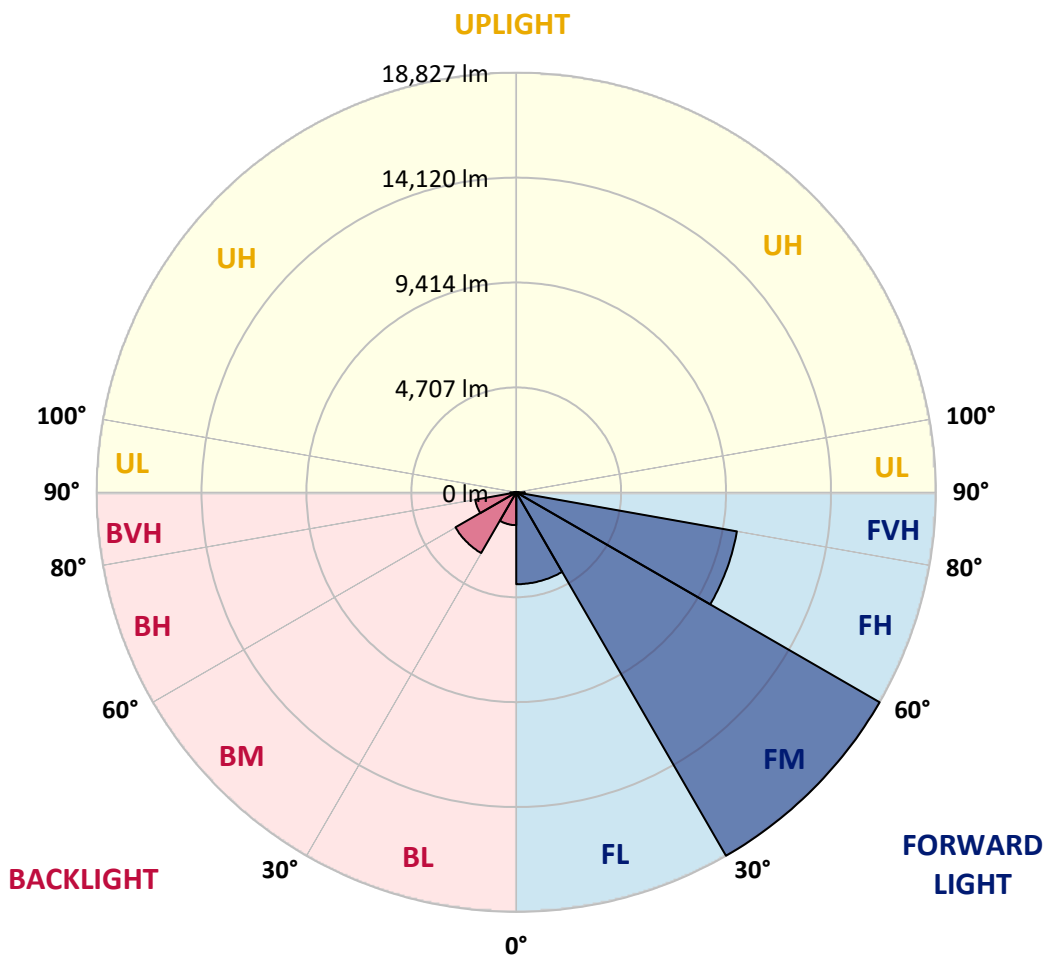


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4122.0	10.3			
FM (30°-60°)	18827.0	46.9			
FH (60°-80°)	10052.6	25.0			G4/12000
FVH (80°-90°)	381.7	1.0			G3/500
BL (0°-30°)	1473.0	3.7	B3/2500		
BM (30°-60°)	3144.9	7.8	B3/5000		
BH (60°-80°)	1871.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	264.7	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-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3665.4	3665.4	3665.4	3665.4	3665.4	3665.4	3665.4	3665.4	3665.4	3665.4	3665.4
2.5°	4865.9	4792.3	4785.5	4677.8	4653.3	4447.5	4296.3	4138.2	3958.4	3922.9	3781.2
5°	6250.3	6243.5	6149.4	5973.7	5836.0	5484.5	5137.0	4769.1	4365.8	4300.4	3981.5
7.5°	7495.7	7484.8	7412.6	7223.2	7024.2	6592.3	6096.3	5532.2	4878.1	4781.4	4252.7
10°	8441.4	8437.3	8412.7	8273.8	8104.8	7690.6	7142.8	6372.9	5473.6	5341.4	4592.0
12.5°	9171.7	9179.9	9196.2	9147.2	9066.8	8713.9	8152.5	7264.1	6108.6	5977.8	4969.4
15°	9666.3	9690.9	9775.3	9844.8	9887.1	9670.4	9126.7	8175.6	6819.8	6663.1	5387.7
17.5°	9915.7	9942.9	10088.7	10298.6	10492.1	10470.3	10038.3	9045.0	7502.5	7351.3	5837.4
20°	10131.0	10151.4	10314.9	10567.0	10909.0	11060.3	10817.7	9881.6	8250.6	8070.7	6314.3
22.5°	10755.1	10780.9	10830.0	10973.1	11275.6	11553.5	11436.4	10673.3	8936.0	8768.4	6766.7
25°	11959.6	11990.9	11884.7	11763.4	11820.6	12014.1	12035.9	11395.5	9630.9	9441.5	7253.2
27.5°	13410.8	13455.7	13274.5	12962.5	12690.0	12615.0	12589.1	11986.9	10294.5	10075.1	7734.2
30°	14832.0	14909.6	14673.9	14269.2	13769.1	13417.6	13157.3	12566.0	10948.5	10738.7	8187.9
32.5°	16220.5	16189.1	15847.1	15452.0	14866.0	14425.9	13796.4	13187.3	11684.4	11443.2	8638.9
35°	17171.6	17182.5	16865.0	16396.3	15837.6	15499.7	14652.1	13857.7	12435.2	12213.0	9151.3
37.5°	17981.0	17930.5	17570.8	17133.4	16652.4	16508.0	15653.6	14596.2	13248.6	13006.1	9696.3
40°	18250.8	18192.2	17956.4	17641.7	17256.1	17243.8	16758.7	15432.9	14168.4	13928.6	10310.8
42.5°	18087.2	18012.3	17915.6	17829.7	17711.2	17765.7	17797.0	16414.0	15179.4	14911.0	11022.1
45°	17483.6	17370.5	17438.6	17625.3	17882.9	18190.8	18734.5	17500.0	16311.8	16086.9	11857.4
47.5°	16555.7	16453.5	16666.0	17065.3	17765.7	18545.1	19621.5	18699.1	17663.5	17440.0	13047.0
50°	15250.3	15280.3	15584.1	16310.4	17369.2	18708.6	20714.4	20286.5	19628.4	19419.9	14669.8
52.5°	13108.3	13113.7	13969.4	15161.7	16666.0	18624.1	21320.7	22315.4	22311.3	22059.2	16215.0
55°	11118.9	11240.1	11917.4	13502.1	15526.9	18286.2	21744.5	23301.9	24073.2	23777.5	17655.3
57.5°	9175.8	9246.7	9888.4	11480.0	13901.3	17385.5	22179.2	24486.1	26103.5	25916.8	19445.8
60°	6965.6	7074.7	7738.2	9208.5	11822.0	15787.2	22220.0	25721.9	28530.3	28342.2	21444.7
62.5°	4521.1	4709.2	5330.5	6708.1	9306.6	13488.4	21271.7	26530.0	30830.4	30763.6	23218.8
65°	2598.5	2740.2	3172.1	4235.0	6420.6	10602.4	19016.5	26219.3	32246.1	32207.9	23882.4
66°	2122.9	2211.5	2542.6	3309.8	5297.8	9310.7	17705.7	25563.9	32386.4	32387.8	23806.1
67.5°	1697.8	1737.3	1885.8	2369.6	3909.3	7379.9	15363.4	24118.1	32212.0	32259.7	23314.2
70°	1404.8	1425.3	1471.6	1588.8	2133.8	4450.3	10904.9	20361.4	30461.1	30497.9	21394.3
72.5°	1260.4	1272.7	1290.4	1306.7	1505.7	2486.8	6660.4	16288.6	26707.1	26754.8	18468.8
75°	1141.9	1148.7	1146.0	1147.3	1263.1	1584.7	3441.9	12161.3	21594.6	21499.2	14148.0
77.5°	1002.9	1009.7	996.1	998.8	1117.3	1218.2	1712.8	8513.6	14573.1	13900.0	7971.3
80°	847.5	853.0	847.5	857.1	972.9	919.8	996.1	4789.6	6443.8	6094.9	2834.2
82.5°	640.4	663.6	679.9	718.1	801.2	654.1	666.3	1865.4	1962.2	1868.1	869.3
85°	280.7	342.0	512.3	549.1	602.3	392.4	437.4	760.3	798.5	774.0	316.1
87.5°	73.6	80.4	253.4	318.9	333.8	177.1	227.6	346.1	365.2	346.1	104.9
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°	3665.4	3665.4	3665.4	3665.4	3665.4	3665.4	3665.4	3665.4	3665.4	3665.4	3665.4
2.5°	3706.3	3639.5	3519.6	3413.3	3332.9	3278.4	3223.9	3196.7	3180.3	3164.0	3166.7
5°	3824.8	3689.9	3484.2	3338.4	3256.6	3204.9	3177.6	3166.7	3159.9	3143.5	3143.5
7.5°	4003.3	3812.6	3529.2	3379.3	3315.2	3275.7	3259.4	3253.9	3245.7	3226.7	3229.4
10°	4228.2	3961.1	3623.2	3477.4	3418.8	3375.2	3352.0	3343.8	3328.8	3307.0	3309.8
12.5°	4492.5	4145.1	3747.2	3594.6	3523.7	3465.1	3427.0	3403.8	3377.9	3349.3	3350.7
15°	4781.4	4345.4	3880.7	3699.5	3602.7	3521.0	3459.7	3420.1	3379.3	3343.8	3342.5
17.5°	5074.3	4538.8	3982.9	3756.7	3625.9	3518.3	3435.1	3373.8	3323.4	3279.8	3275.7
20°	5390.5	4713.3	4040.1	3751.3	3582.3	3454.2	3343.8	3267.5	3211.7	3168.1	3161.2
22.5°	5712.0	4876.8	4049.7	3695.4	3485.5	3328.8	3213.0	3128.5	3071.3	3026.4	3010.0
25°	6006.4	5003.5	4010.2	3587.7	3350.7	3181.7	3068.6	2982.7	2936.4	2883.3	2866.9
27.5°	6274.8	5092.1	3931.1	3450.1	3199.4	3033.2	2926.9	2853.3	2802.9	2762.0	2748.4
30°	6516.0	5139.8	3801.7	3286.6	3044.1	2892.8	2802.9	2752.5	2708.9	2657.1	2647.5
32.5°	6744.9	5139.8	3635.4	3108.1	2890.1	2768.8	2715.7	2684.3	2635.3	2584.9	2571.2
35°	6973.8	5108.4	3439.2	2921.4	2748.4	2680.2	2677.5	2640.7	2565.8	2497.7	2479.9
37.5°	7215.0	5044.4	3218.5	2747.0	2632.6	2640.7	2663.9	2582.1	2475.9	2379.1	2353.2
40°	7487.5	4955.8	2989.6	2595.8	2535.8	2623.0	2627.1	2497.7	2290.5	2202.0	2178.8
42.5°	7807.7	4867.2	2777.0	2462.2	2459.5	2569.9	2557.6	2315.1	2191.1	2146.1	2133.8
45°	8228.8	4816.8	2575.3	2335.5	2399.6	2484.0	2439.1	2214.2	2162.5	2136.6	2125.7
47.5°	8892.4	4842.7	2390.0	2234.7	2339.6	2398.2	2218.3	2173.4	2136.6	2105.2	2094.3
50°	9723.6	4827.7	2240.1	2165.2	2271.5	2308.3	2118.9	2120.2	2101.1	2065.7	2049.4
52.5°	10349.0	4710.5	2143.4	2125.7	2211.5	2148.8	2056.2	2068.4	2058.9	2007.1	1989.4
55°	10952.6	4609.7	2094.3	2110.7	2167.9	1949.9	1982.6	2012.6	2003.0	1952.6	1944.4
57.5°	11703.4	4590.6	2064.3	2114.8	2131.1	1850.4	1911.7	1951.3	1944.4	1922.6	1918.6
60°	12623.2	4596.1	2037.1	2121.6	2090.2	1776.8	1845.0	1895.4	1899.5	1895.4	1892.7
62.5°	13128.7	4447.5	1969.0	2102.5	2018.0	1712.8	1775.5	1849.1	1850.4	1858.6	1857.2
65°	12699.5	4003.3	1842.2	2035.7	1896.7	1659.7	1715.5	1795.9	1775.5	1812.3	1812.3
66°	12282.5	3747.2	1779.6	1992.1	1845.0	1639.2	1696.4	1768.7	1742.8	1793.2	1793.2
67.5°	11430.9	3315.2	1666.5	1899.5	1771.4	1610.6	1674.6	1723.7	1688.3	1763.2	1757.8
70°	9874.8	2564.4	1438.9	1689.6	1650.1	1568.4	1644.7	1633.8	1582.0	1696.4	1674.6
72.5°	8325.5	1948.5	1155.5	1414.4	1466.2	1515.2	1602.4	1519.3	1453.9	1534.3	1486.6
75°	6460.1	1464.8	912.9	1099.6	1238.6	1432.1	1552.0	1387.1	1293.1	1284.9	1259.0
77.5°	3492.4	1005.6	723.5	839.4	983.8	1328.5	1517.9	1245.4	1103.7	1071.0	1050.6
80°	1383.0	654.1	526.0	636.3	688.1	1178.7	1436.2	1080.5	910.2	877.5	846.2
82.5°	570.9	387.0	339.3	426.5	448.3	1008.3	1289.0	885.7	703.1	972.9	1032.9
85°	245.3	212.6	201.7	220.7	253.4	707.2	1026.0	675.9	759.0	677.2	538.2
87.5°	73.6	89.9	85.8	84.5	92.7	169.0	546.4	376.1	557.3	211.2	158.1
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)