

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: P319039

Luminaire Tested: **GAN-SA5B-740-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319039  
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-SA5B-740-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28363 lumens  
Efficiency: N/A  
Efficacy: 135.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

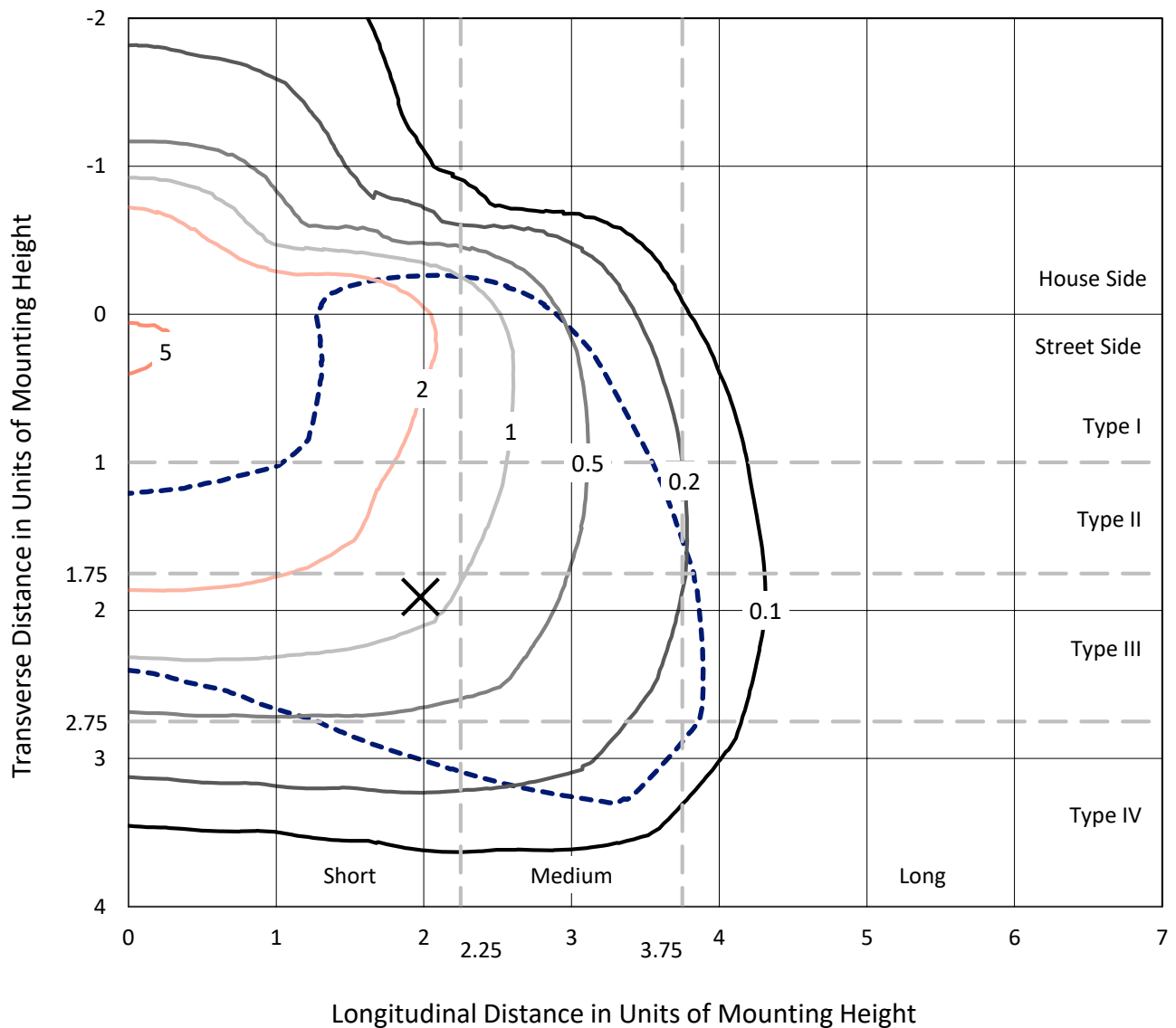
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

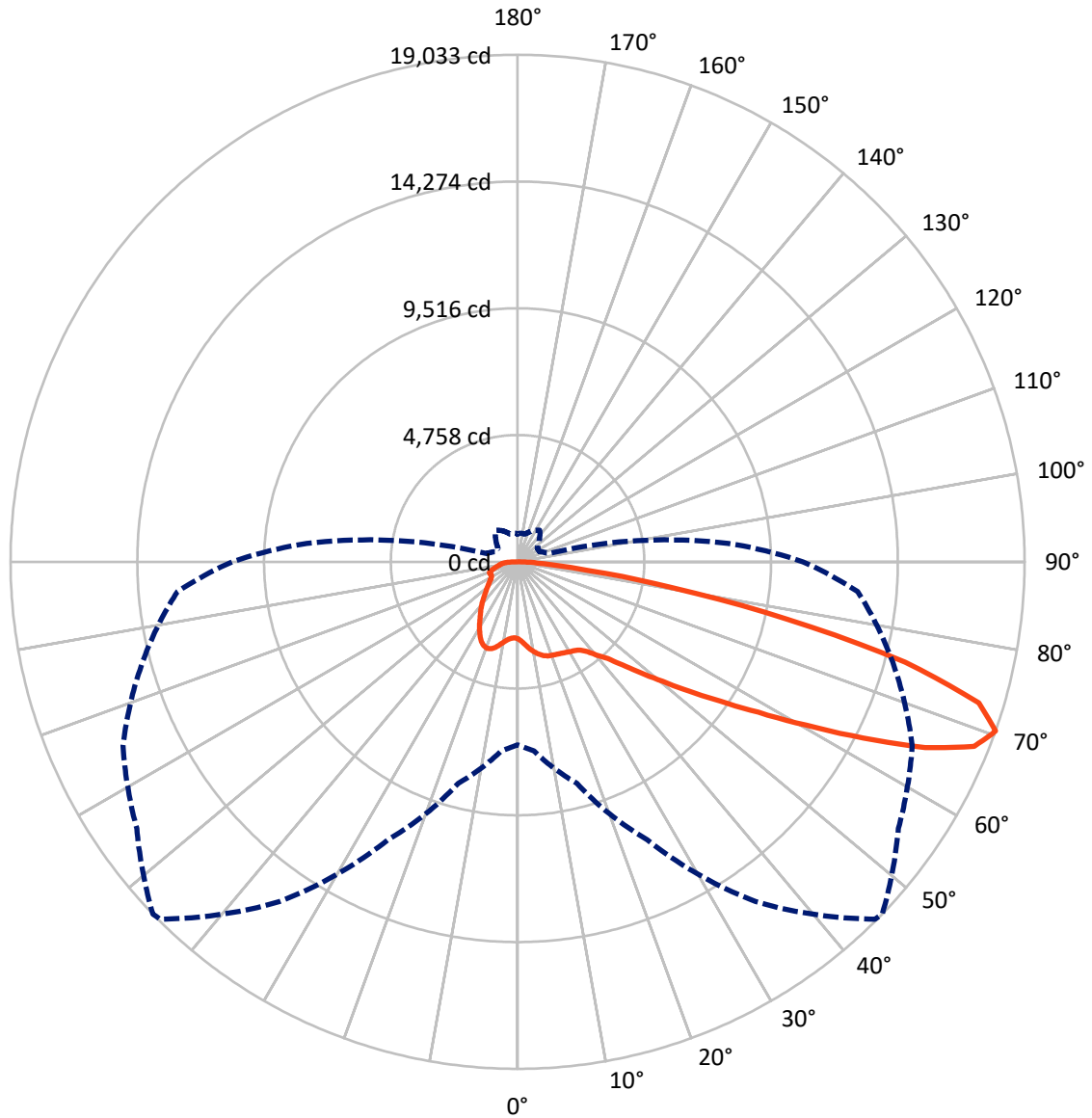
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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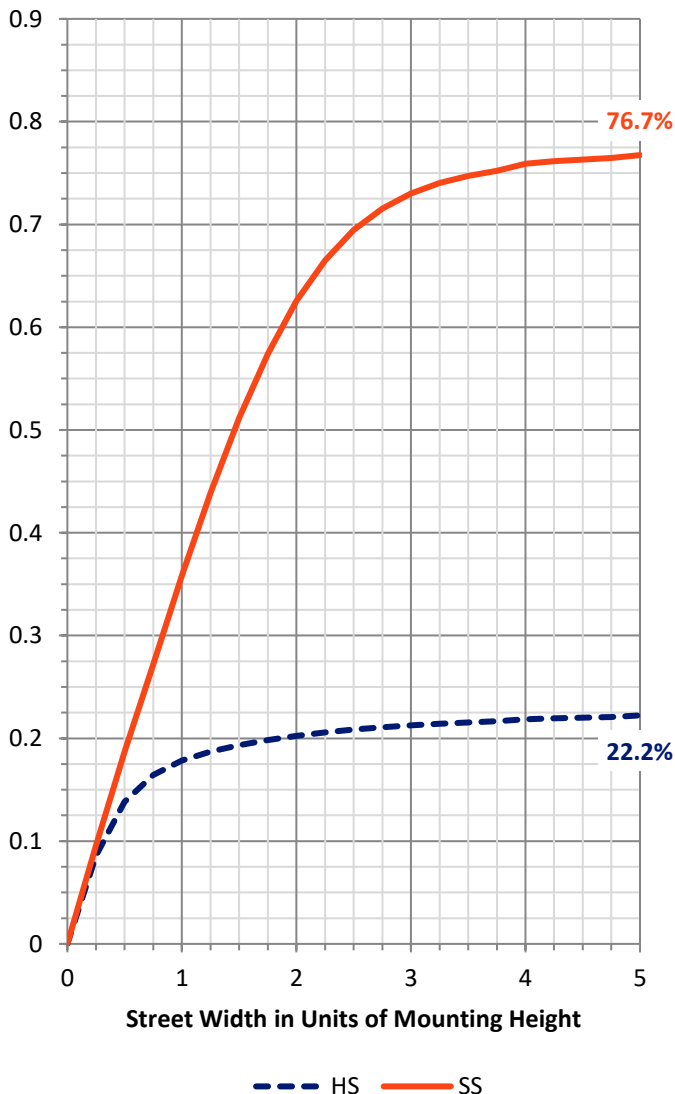
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6500.7	0.0	6500.7
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	21862.3	0.0	21862.3
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	28363.0	0.0	28363.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.6	1.0
10°-20°	981.4	3.5
20°-30°	1636.4	5.8
30°-40°	2322.2	8.2
40°-50°	3415.8	12.0
50°-60°	5784.7	20.4
60°-70°	8211.3	29.0
70°-80°	4988.5	17.6
80°-90°	728.0	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°	28363.0	100.0
0°-180°	28363.0	100.0

**Coefficient of Utilization**

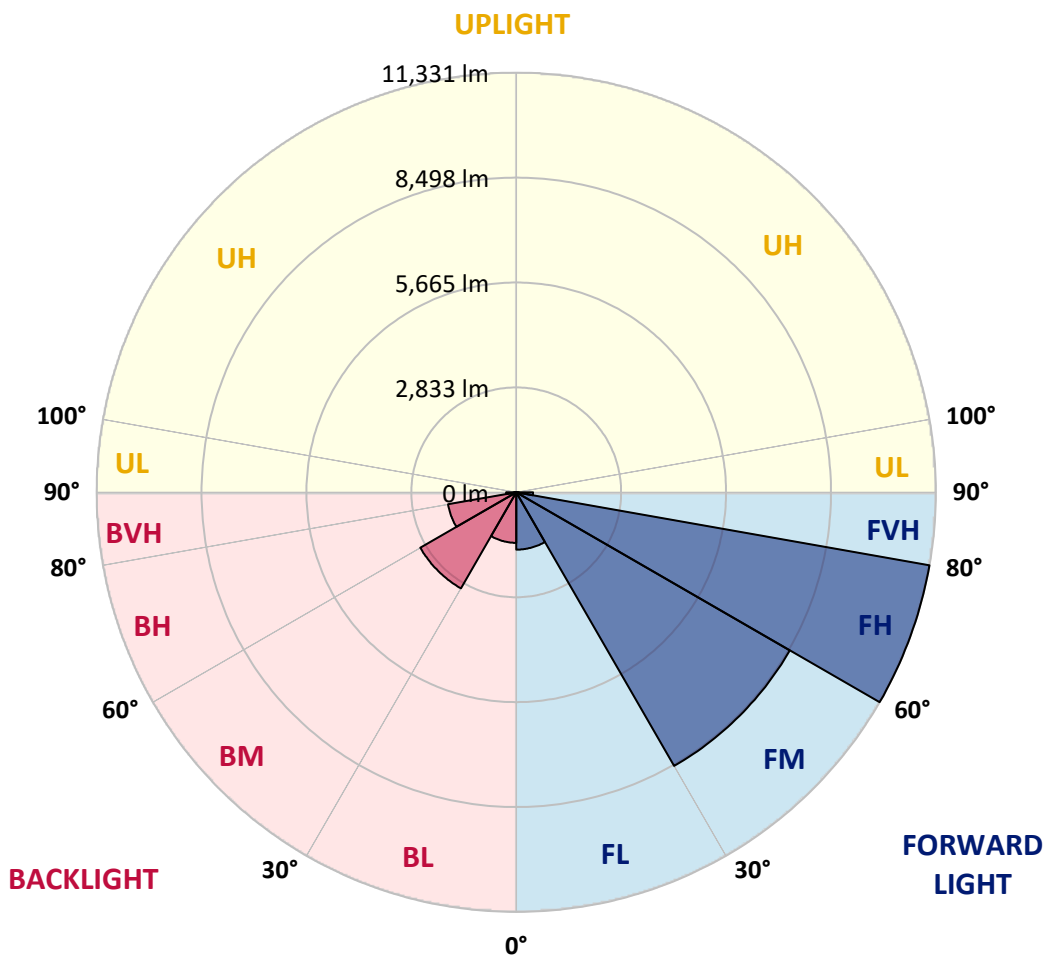


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1547.6	5.5			
FM (30°-60°)	8530.3	30.1			
FH (60°-80°)	11330.9	39.9			G4/12000
FVH (80°-90°)	453.5	1.6			G3/500
BL (0°-30°)	1364.8	4.8	B3/2500		
BM (30°-60°)	2992.5	10.6	B3/5000		
BH (60°-80°)	1868.9	6.6	B3/2500		G3/2500
BVH (80°-90°)	274.5	1.0			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2889.6	2889.6	2889.6	2889.6	2889.6	2889.6	2889.6	2889.6	2889.6	2889.6	2889.6
2.5°	3034.3	3036.2	3040.1	3030.4	3003.2	2995.4	2992.5	2964.4	2945.9	2918.8	2895.5
5°	3276.9	3278.9	3273.0	3245.9	3185.7	3141.0	3137.2	3073.1	3014.8	2952.7	2906.1
7.5°	3530.3	3533.2	3514.7	3463.3	3378.8	3301.2	3296.3	3209.0	3120.7	3026.5	2956.6
10°	3754.5	3742.8	3712.7	3640.9	3540.9	3445.8	3441.9	3350.7	3248.8	3135.2	3042.0
12.5°	3904.0	3894.3	3855.4	3768.1	3658.4	3571.0	3563.3	3478.8	3379.8	3255.6	3143.9
15°	3986.5	3993.3	3940.9	3841.8	3735.1	3661.3	3654.5	3594.3	3506.0	3380.8	3252.7
17.5°	3997.1	4003.0	3952.5	3854.5	3767.1	3716.6	3713.7	3673.9	3609.9	3489.5	3355.5
20°	3935.0	3938.9	3897.2	3816.6	3759.3	3743.8	3742.8	3725.4	3677.8	3571.0	3441.0
22.5°	3844.8	3847.7	3817.6	3759.3	3739.9	3764.2	3771.0	3764.2	3730.2	3630.2	3507.9
25°	3822.4	3820.5	3789.4	3730.2	3746.7	3798.2	3806.9	3809.8	3786.5	3699.2	3593.4
27.5°	3930.2	3923.4	3864.2	3769.0	3779.7	3841.8	3853.5	3881.6	3867.1	3790.4	3690.4
30°	4241.8	4230.1	4108.8	3916.6	3864.2	3896.2	3910.8	3955.4	3958.3	3894.3	3819.5
32.5°	4767.8	4753.3	4535.9	4192.3	4006.9	3951.5	3965.1	4032.1	4068.0	4018.5	3937.9
35°	5432.7	5416.2	5130.9	4661.1	4245.6	4057.3	4067.0	4120.4	4192.3	4122.4	4015.6
37.5°	6125.8	6086.0	5811.3	5212.4	4625.2	4283.5	4283.5	4290.3	4324.3	4178.7	4106.8
40°	6815.0	6775.2	6526.7	5860.8	5116.3	4639.7	4617.4	4466.9	4439.8	4314.6	4290.3
42.5°	7455.6	7443.9	7297.4	6593.6	5692.9	4990.1	4959.1	4703.8	4709.6	4632.0	4632.9
45°	8137.0	8137.0	8017.6	7333.3	6364.6	5553.1	5522.0	5146.4	5204.6	5168.7	5255.1
47.5°	8693.2	8710.6	8694.1	8104.0	7145.9	6268.5	6212.2	5759.9	5922.9	6046.2	6297.6
50°	9261.0	9288.2	9291.1	8949.4	8090.4	7118.8	7054.7	6574.2	6938.2	7291.5	7785.6
52.5°	10085.1	10146.2	9902.6	9792.9	9247.4	8128.2	8065.2	7621.6	8229.2	8725.2	9576.5
55°	10849.0	10795.6	10621.9	10689.8	10486.0	9277.5	9229.9	8840.7	9667.7	10312.2	11417.8
57.5°	11262.5	11258.6	11433.3	11724.5	11821.6	10694.7	10654.9	10276.3	11289.7	11774.0	13146.5
60°	11747.8	11754.6	12187.5	12848.5	13248.4	12459.3	12441.8	12154.5	12865.0	13138.8	14502.5
62.5°	11815.8	11938.1	12683.5	13821.1	14584.1	14521.0	14559.8	13846.4	14274.4	14227.8	15514.9
65°	11034.4	11195.5	12544.7	14115.2	15911.9	16775.8	16811.7	15547.9	15385.8	15158.7	15877.0
67.5°	9432.8	9671.6	11137.3	13475.6	16349.7	18442.4	18492.9	16867.0	16307.9	15474.2	15005.3
70°	6864.5	7129.4	8604.8	11509.0	15569.3	18975.3	19032.6	17450.4	16342.9	14576.3	12809.7
72.5°	4146.6	4354.4	5570.6	8472.8	13140.7	18004.6	18106.6	16710.8	14920.9	12346.7	9459.0
75°	1820.9	1956.8	2693.6	4882.4	9407.6	14896.6	15023.8	14303.5	12123.5	8972.7	5591.0
77.5°	775.6	814.4	1104.6	2120.9	5318.2	10179.2	10354.0	10451.0	8225.3	4882.4	2362.6
80°	483.4	498.9	625.1	960.0	2488.8	5717.1	5905.5	6149.1	4084.5	1794.7	825.1
82.5°	294.1	311.6	415.4	580.5	1295.8	2591.6	2681.9	2853.7	1585.1	775.6	427.1
85°	176.7	189.3	254.3	366.9	737.7	1019.2	1018.2	1126.0	746.4	498.9	225.2
87.5°	84.4	94.2	135.9	190.2	371.8	382.4	358.2	405.7	453.3	327.1	113.6
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°	2889.6	2889.6	2889.6	2889.6	2889.6	2889.6	2889.6	2889.6	2889.6	2889.6	2889.6
2.5°	2887.7	2883.8	2871.2	2861.5	2859.5	2853.7	2848.9	2851.8	2855.7	2856.6	2856.6
5°	2886.7	2876.0	2859.5	2852.7	2861.5	2873.1	2887.7	2907.1	2918.8	2927.5	2933.3
7.5°	2933.3	2912.9	2894.5	2890.6	2908.1	2939.1	2972.1	3012.9	3041.1	3060.5	3064.4
10°	3011.0	2985.7	2967.3	2971.2	3002.2	3046.9	3093.5	3145.9	3188.6	3214.8	3216.7
12.5°	3100.3	3076.0	3058.5	3075.0	3126.5	3180.8	3229.4	3275.0	3313.8	3340.0	3340.0
15°	3203.2	3185.7	3165.3	3203.2	3273.0	3321.6	3342.0	3364.3	3385.6	3405.1	3401.2
17.5°	3302.2	3285.7	3275.0	3319.6	3392.4	3414.8	3401.2	3384.7	3384.7	3395.3	3397.3
20°	3387.6	3373.0	3379.8	3423.5	3461.3	3438.1	3387.6	3335.2	3313.8	3319.6	3325.5
22.5°	3462.3	3455.5	3475.9	3496.3	3469.1	3387.6	3294.4	3223.5	3197.3	3195.4	3197.3
25°	3549.7	3548.7	3573.9	3537.1	3416.7	3266.2	3141.0	3072.1	3057.6	3069.2	3088.6
27.5°	3658.4	3669.1	3681.7	3546.8	3309.9	3082.8	2955.6	2908.1	2922.6	2950.8	2969.2
30°	3797.2	3826.3	3799.1	3522.5	3156.6	2873.1	2751.8	2738.2	2778.0	2817.8	2837.2
32.5°	3932.1	3977.7	3911.7	3459.4	2958.6	2650.9	2556.7	2552.8	2601.4	2640.2	2667.4
35°	4040.8	4131.1	3996.2	3334.2	2729.5	2446.0	2377.1	2350.9	2368.4	2414.0	2445.1
37.5°	4182.5	4333.0	4054.4	3143.0	2481.0	2277.2	2196.6	2136.4	2120.9	2139.3	2154.9
40°	4441.7	4640.7	4081.6	2876.0	2238.3	2108.3	2026.7	1938.4	1877.2	1832.6	1833.6
42.5°	4864.9	5041.6	4064.1	2551.8	2014.1	1943.2	1851.0	1749.1	1650.1	1549.2	1541.4
45°	5552.1	5637.6	4011.7	2208.2	1817.1	1770.5	1684.1	1582.2	1450.2	1335.6	1324.9
47.5°	6651.9	6462.6	3930.2	1908.3	1643.3	1623.9	1544.3	1426.9	1287.1	1194.9	1187.1
50°	8151.5	7653.6	3890.4	1669.5	1490.0	1495.8	1430.7	1306.5	1174.5	1106.5	1098.8
52.5°	9945.3	9040.7	3967.1	1485.1	1366.7	1387.1	1338.5	1222.1	1111.4	1058.0	1050.2
55°	11806.1	10477.2	4049.6	1351.1	1250.2	1290.0	1273.5	1177.4	1077.4	1027.9	1021.1
57.5°	13398.9	11549.8	3884.6	1242.4	1146.3	1208.5	1223.0	1149.3	1060.0	1015.3	1007.5
60°	14401.6	11981.7	3451.6	1140.5	1063.8	1143.4	1193.9	1141.5	1066.7	1062.9	1057.0
62.5°	14877.2	11943.9	2802.3	1060.0	1012.4	1115.3	1215.3	1185.2	1144.4	1179.3	1182.3
65°	14663.7	11373.1	2086.9	1006.6	975.5	1126.0	1279.3	1267.7	1166.7	1201.7	1206.5
67.5°	13258.2	10011.3	1545.3	960.0	934.7	1156.0	1395.8	1294.9	1123.0	1148.3	1132.8
70°	10716.0	7937.0	1192.0	907.6	893.0	1152.2	1448.2	1278.4	1075.5	1081.3	1039.6
72.5°	7389.6	5412.4	969.7	859.0	832.8	1050.2	1411.3	1237.6	1035.7	991.0	935.7
75°	4018.5	2905.2	824.1	808.6	727.0	922.1	1343.4	1208.5	999.8	940.6	909.5
77.5°	1581.2	1205.6	715.4	739.6	635.8	814.4	1267.7	1153.1	950.3	872.6	857.1
80°	645.5	615.4	593.1	639.7	546.5	712.5	1176.4	1088.1	891.1	809.5	778.5
82.5°	365.9	382.4	461.1	504.7	443.6	656.2	1132.8	1035.7	820.2	725.1	688.2
85°	187.3	224.2	321.3	362.1	326.1	558.1	1043.5	906.6	658.1	555.2	558.1
87.5°	90.3	125.2	202.9	227.1	211.6	403.8	779.4	657.1	512.5	405.7	393.1
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)