

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: P319088

Luminaire Tested: **GAN-SA4C-750-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319088
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-SA4C-750-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28333 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

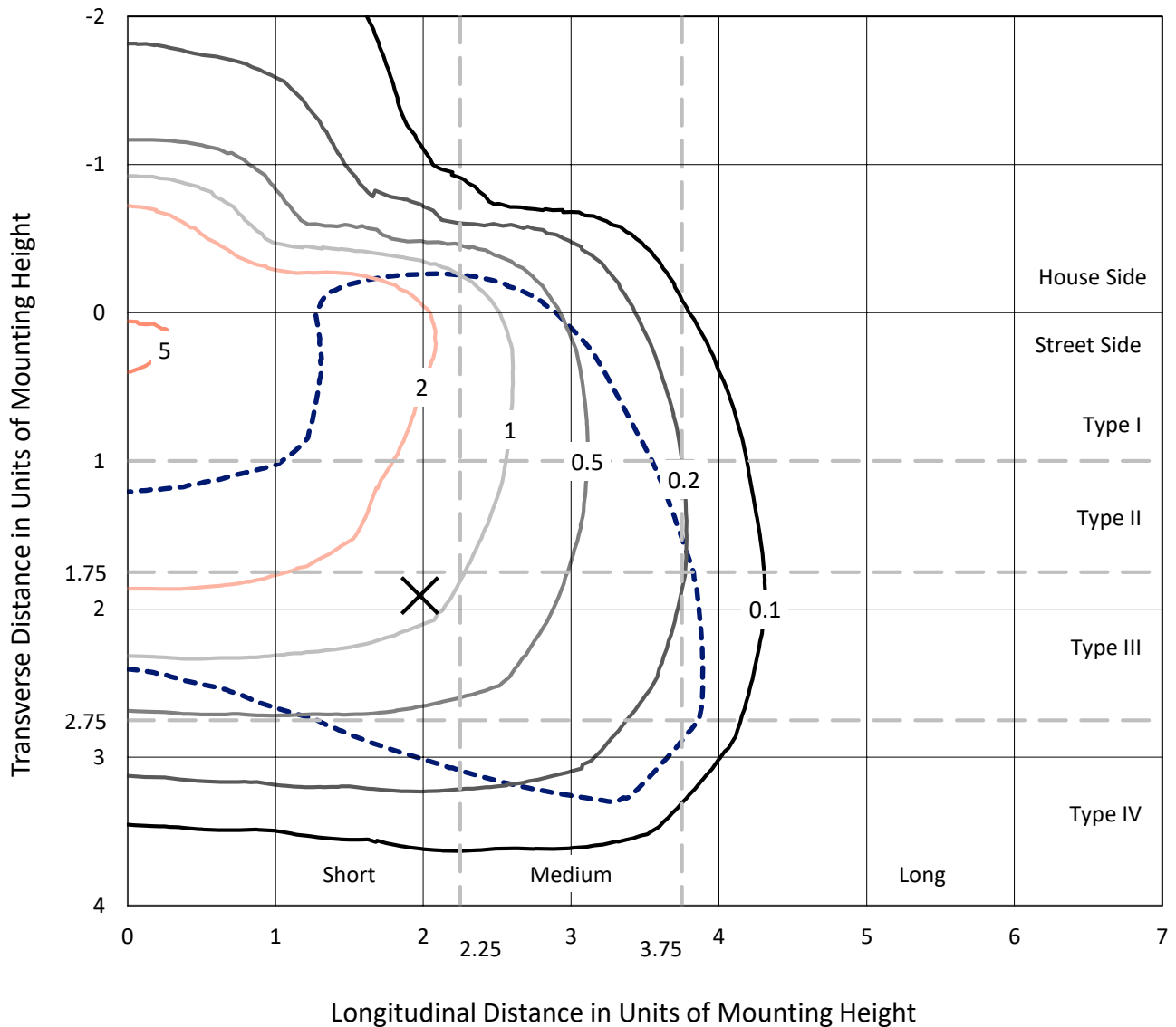
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

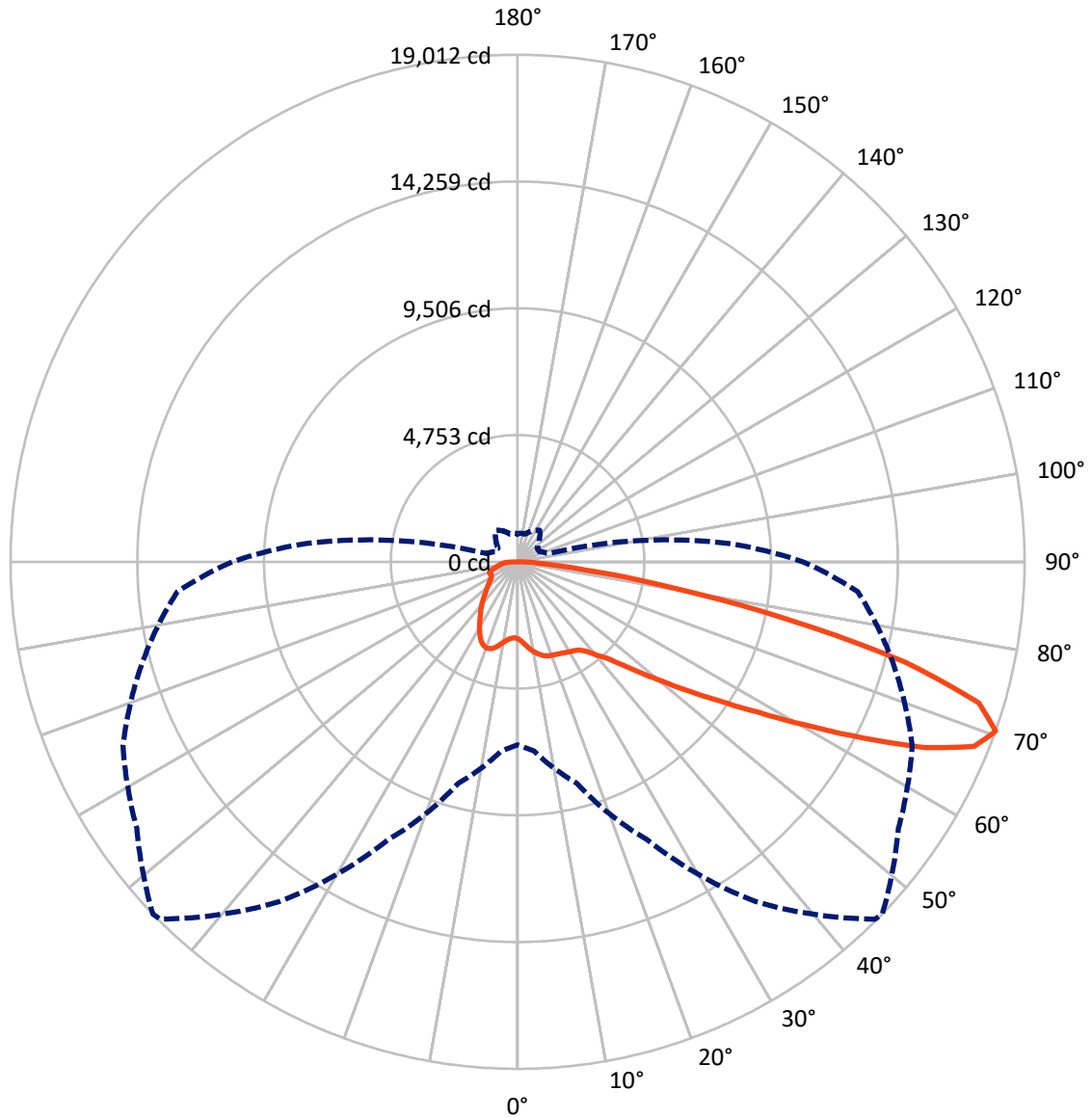
✕ Max cd
 - - - 1/2 Max cd



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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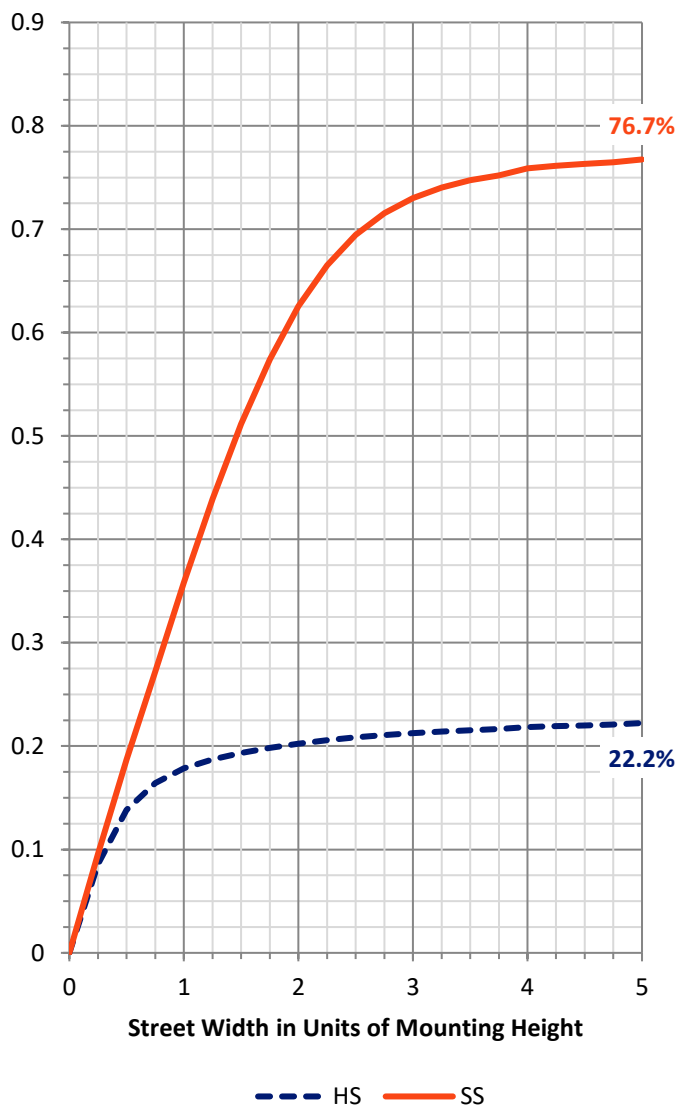
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6493.8	0.0	6493.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	21839.2	0.0	21839.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	28333.0	0.0	28333.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.3	1.0
10°-20°	980.4	3.5
20°-30°	1634.7	5.8
30°-40°	2319.8	8.2
40°-50°	3412.2	12.0
50°-60°	5778.6	20.4
60°-70°	8202.6	29.0
70°-80°	4983.2	17.6
80°-90°	727.2	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°	28333.0	100.0
0°-180°	28333.0	100.0

Coefficient of Utilization

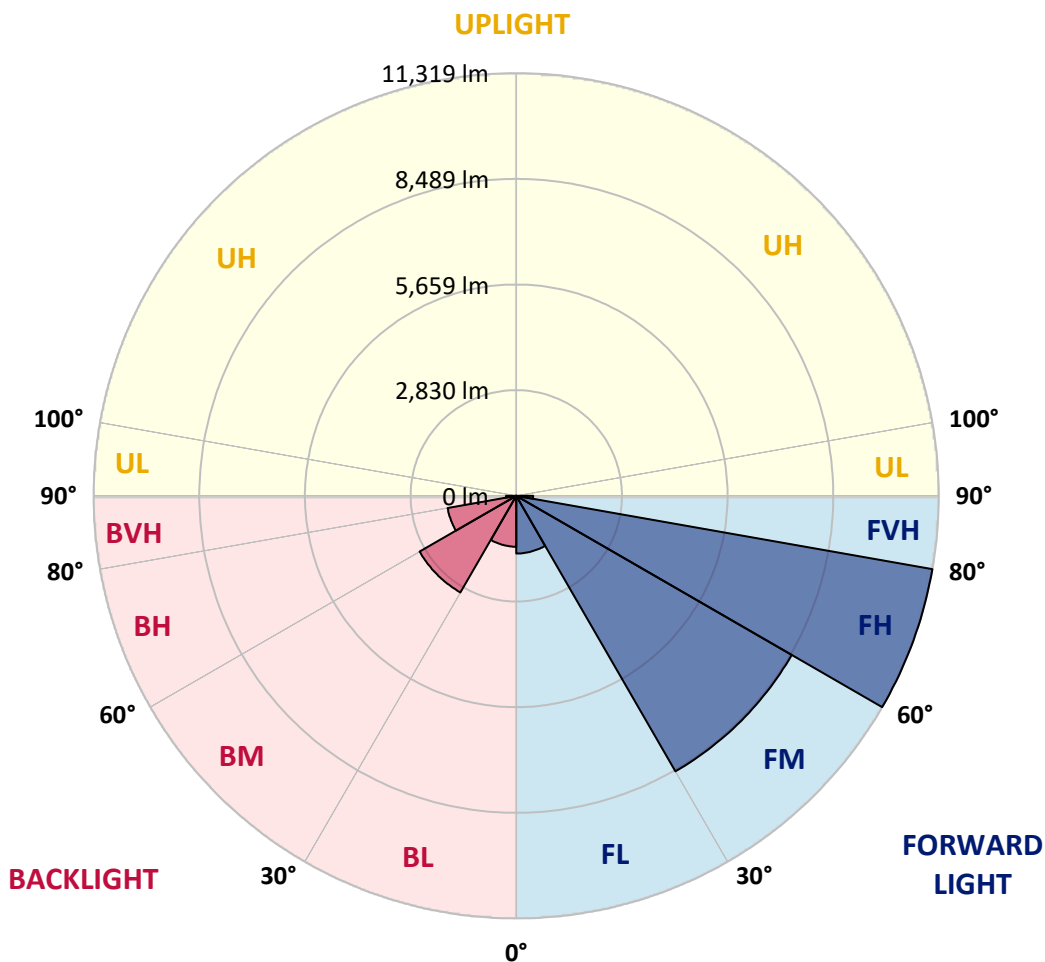


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1546.0	5.5			
FM (30°-60°)	8521.3	30.1			
FH (60°-80°)	11318.9	39.9			G4/12000
FVH (80°-90°)	453.0	1.6			G3/500
BL (0°-30°)	1363.4	4.8	B3/2500		
BM (30°-60°)	2989.3	10.6	B3/5000		
BH (60°-80°)	1866.9	6.6	B3/2500		G3/2500
BVH (80°-90°)	274.2	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°	2886.6	2886.6	2886.6	2886.6	2886.6	2886.6	2886.6	2886.6	2886.6	2886.6	2886.6
2.5°	3031.1	3033.0	3036.9	3027.2	3000.0	2992.3	2989.4	2961.2	2942.8	2915.7	2892.4
5°	3273.5	3275.4	3269.6	3242.4	3182.3	3137.7	3133.8	3069.8	3011.7	2949.6	2903.1
7.5°	3526.5	3529.4	3511.0	3459.6	3375.3	3297.7	3292.9	3205.6	3117.3	3023.3	2953.5
10°	3750.5	3738.9	3708.8	3637.1	3537.2	3442.2	3438.3	3347.2	3245.3	3131.9	3038.8
12.5°	3899.8	3890.1	3851.4	3764.1	3654.5	3567.3	3559.5	3475.1	3376.2	3252.1	3140.6
15°	3982.3	3989.0	3936.7	3837.8	3731.1	3657.4	3650.6	3590.5	3502.3	3377.2	3249.2
17.5°	3992.9	3998.7	3948.3	3850.4	3763.1	3712.7	3709.8	3670.0	3606.0	3485.8	3352.0
20°	3930.9	3934.7	3893.1	3812.6	3755.4	3739.8	3738.9	3721.4	3673.9	3567.3	3437.3
22.5°	3840.7	3843.6	3813.5	3755.4	3736.0	3760.2	3767.0	3760.2	3726.3	3626.4	3504.2
25°	3818.4	3816.4	3785.4	3726.3	3742.8	3794.1	3802.9	3805.8	3782.5	3695.2	3589.6
27.5°	3926.0	3919.2	3860.1	3765.1	3775.7	3837.8	3849.4	3877.5	3863.0	3786.4	3686.5
30°	4237.3	4225.6	4104.4	3912.4	3860.1	3892.1	3906.6	3951.2	3954.1	3890.1	3815.5
32.5°	4762.8	4748.3	4531.1	4187.8	4002.6	3947.3	3960.9	4027.8	4063.7	4014.3	3933.8
35°	5427.0	5410.5	5125.4	4656.1	4241.1	4053.0	4062.7	4116.1	4187.8	4118.0	4011.3
37.5°	6119.3	6079.6	5805.2	5206.9	4620.3	4279.0	4279.0	4285.7	4319.7	4174.2	4102.5
40°	6807.7	6768.0	6519.8	5854.6	5110.9	4634.8	4612.5	4462.2	4435.1	4310.0	4285.7
42.5°	7447.7	7436.1	7289.7	6586.7	5686.9	4984.8	4953.8	4698.8	4704.6	4627.1	4628.0
45°	8128.4	8128.4	8009.1	7325.5	6357.8	5547.2	5516.2	5141.0	5199.1	5163.3	5249.6
47.5°	8684.0	8701.4	8684.9	8095.4	7138.4	6261.8	6205.6	5753.8	5916.7	6039.8	6290.9
50°	9251.2	9278.4	9281.3	8940.0	8081.8	7111.2	7047.2	6567.3	6930.9	7283.8	7777.4
52.5°	10074.4	10135.5	9892.1	9782.6	9237.6	8119.7	8056.6	7613.5	8220.5	8716.0	9566.3
55°	10837.5	10784.2	10610.6	10678.5	10474.9	9267.7	9220.2	8831.4	9657.5	10301.3	11405.7
57.5°	11250.6	11246.7	11421.2	11712.1	11809.1	10683.3	10643.6	10265.4	11277.7	11761.6	13132.6
60°	11735.4	11742.2	12174.6	12834.9	13234.4	12446.1	12428.7	12141.7	12851.4	13124.9	14487.2
62.5°	11803.3	11925.4	12670.1	13806.5	14568.6	14505.6	14544.4	13831.7	14259.3	14212.8	15498.5
65°	11022.7	11183.7	12531.5	14100.3	15895.1	16758.1	16793.9	15531.5	15369.5	15142.7	15860.2
67.5°	9422.8	9661.4	11125.5	13461.3	16332.4	18422.9	18473.3	16849.2	16290.7	15457.8	14989.5
70°	6857.2	7121.9	8595.7	11496.9	15552.8	18955.2	19012.4	17431.9	16325.6	14560.9	12796.2
72.5°	4142.2	4349.7	5564.7	8463.9	13126.8	17985.6	18087.4	16693.1	14905.1	12333.6	9449.0
75°	1819.0	1954.8	2690.7	4877.2	9397.6	14880.9	15007.9	14288.4	12110.6	8963.2	5585.0
77.5°	774.7	813.5	1103.4	2118.6	5312.6	10168.5	10343.0	10440.0	8216.6	4877.2	2360.1
80°	482.9	498.4	624.4	959.0	2486.1	5711.1	5899.2	6142.6	4080.2	1792.8	824.2
82.5°	293.8	311.3	415.0	579.8	1294.5	2588.9	2679.1	2850.7	1583.4	774.7	426.6
85°	176.5	189.1	254.0	366.5	736.9	1018.1	1017.1	1124.8	745.6	498.4	225.0
87.5°	84.4	94.1	135.7	190.0	371.4	382.0	357.8	405.3	452.8	326.8	113.4
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°	2886.6	2886.6	2886.6	2886.6	2886.6	2886.6	2886.6	2886.6	2886.6	2886.6	2886.6
2.5°	2884.6	2880.8	2868.2	2858.5	2856.5	2850.7	2845.9	2848.8	2852.6	2853.6	2853.6
5°	2883.7	2873.0	2856.5	2849.7	2858.5	2870.1	2884.6	2904.0	2915.7	2924.4	2930.2
7.5°	2930.2	2909.8	2891.4	2887.5	2905.0	2936.0	2969.0	3009.7	3037.8	3057.2	3061.1
10°	3007.8	2982.6	2964.1	2968.0	2999.1	3043.7	3090.2	3142.6	3185.2	3211.4	3213.3
12.5°	3097.0	3072.7	3055.3	3071.8	3123.2	3177.5	3225.9	3271.5	3310.3	3336.5	3336.5
15°	3199.8	3182.3	3162.0	3199.8	3269.6	3318.1	3338.4	3360.7	3382.1	3401.4	3397.6
17.5°	3298.7	3282.2	3271.5	3316.1	3388.8	3411.1	3397.6	3381.1	3381.1	3391.8	3393.7
20°	3384.0	3369.5	3376.2	3419.9	3457.7	3434.4	3384.0	3331.6	3310.3	3316.1	3321.9
22.5°	3458.7	3451.9	3472.2	3492.6	3465.4	3384.0	3290.9	3220.1	3193.9	3192.0	3193.9
25°	3545.9	3545.0	3570.2	3533.3	3413.1	3262.8	3137.7	3068.9	3054.3	3066.0	3085.4
27.5°	3654.5	3665.2	3677.8	3543.0	3306.4	3079.5	2952.5	2905.0	2919.5	2947.7	2966.1
30°	3793.2	3822.3	3795.1	3518.8	3153.2	2870.1	2748.9	2735.3	2775.1	2814.8	2834.2
32.5°	3928.0	3973.5	3907.6	3455.7	2955.4	2648.1	2554.0	2550.1	2598.6	2637.4	2664.5
35°	4036.6	4126.7	3992.0	3330.7	2726.6	2443.5	2374.6	2348.4	2365.9	2411.5	2442.5
37.5°	4178.1	4328.4	4050.1	3139.7	2478.4	2274.7	2194.3	2134.1	2118.6	2137.1	2152.6
40°	4437.0	4635.8	4077.3	2873.0	2236.0	2106.0	2024.6	1936.3	1875.3	1830.7	1831.6
42.5°	4859.8	5036.2	4059.8	2549.1	2012.0	1941.2	1849.1	1747.3	1648.4	1547.5	1539.8
45°	5546.3	5631.6	4007.5	2205.9	1815.1	1768.6	1682.3	1580.5	1448.6	1334.2	1323.5
47.5°	6644.9	6455.8	3926.0	1906.3	1641.6	1622.2	1542.7	1425.4	1285.7	1193.6	1185.9
50°	8142.9	7645.5	3886.3	1667.8	1488.4	1494.2	1429.2	1305.1	1173.2	1105.4	1097.6
52.5°	9934.8	9031.1	3962.9	1483.5	1365.2	1385.6	1337.1	1220.8	1110.2	1056.9	1049.1
55°	11793.6	10466.1	4045.3	1349.7	1248.9	1288.6	1272.1	1176.2	1076.3	1026.8	1020.0
57.5°	13384.7	11537.6	3880.4	1241.1	1145.1	1207.2	1221.7	1148.0	1058.8	1014.2	1006.5
60°	14386.3	11969.1	3448.0	1139.3	1062.7	1142.2	1192.6	1140.3	1065.6	1061.7	1055.9
62.5°	14861.5	11931.3	2799.3	1058.8	1011.3	1114.1	1214.0	1183.9	1143.2	1178.1	1181.0
65°	14648.1	11361.1	2084.7	1005.5	974.5	1124.8	1278.0	1266.3	1165.5	1200.4	1205.2
67.5°	13244.1	10000.7	1543.6	959.0	933.8	1154.8	1394.3	1293.5	1121.9	1147.1	1131.6
70°	10704.7	7928.6	1190.7	906.6	892.1	1150.9	1446.7	1277.0	1074.3	1080.2	1038.5
72.5°	7381.8	5406.6	968.7	858.1	831.9	1049.1	1409.8	1236.3	1034.6	990.0	934.7
75°	4014.3	2902.1	823.2	807.7	726.3	921.1	1342.0	1207.2	998.7	939.6	908.5
77.5°	1579.5	1204.3	714.6	738.9	635.1	813.5	1266.3	1151.9	949.3	871.7	856.2
80°	644.8	614.7	592.4	639.0	545.9	711.7	1175.2	1087.0	890.1	808.7	777.6
82.5°	365.5	382.0	460.6	504.2	443.1	655.5	1131.6	1034.6	819.3	724.3	687.5
85°	187.1	224.0	320.9	361.7	325.8	557.5	1042.3	905.6	657.4	554.6	557.5
87.5°	90.2	125.1	202.7	226.9	211.4	403.4	778.6	656.4	512.0	405.3	392.7
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)