

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: P319018

Luminaire Tested: **GAN-SA4D-730-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319018
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-SA4D-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28304 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

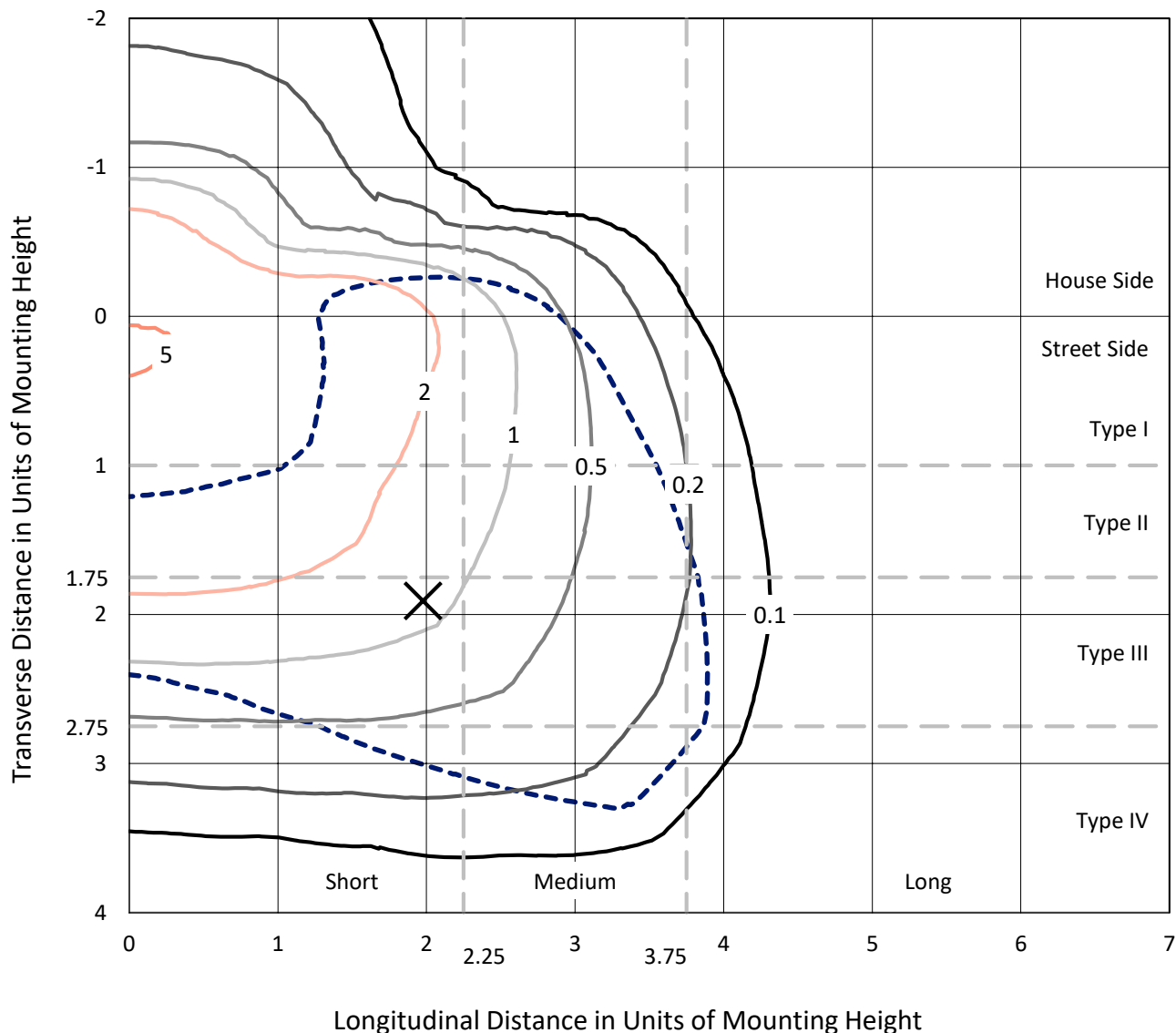
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319018
 CATALOG NUMBER: GAN-SA4D-730-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

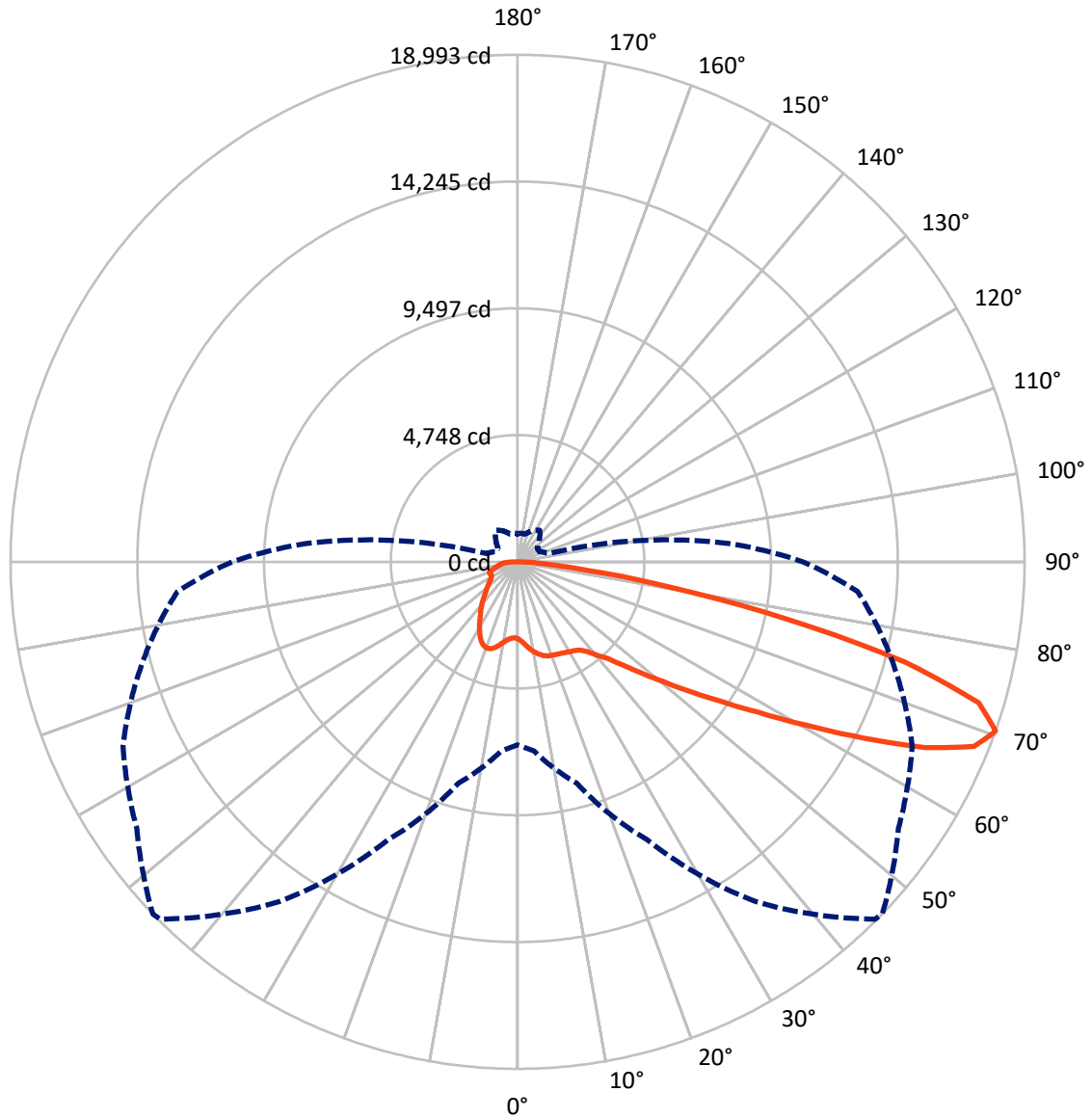
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P319018
CATALOG NUMBER: GAN-SA4D-730-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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 CATALOG NUMBER: GAN-SA4D-730-U-T4W

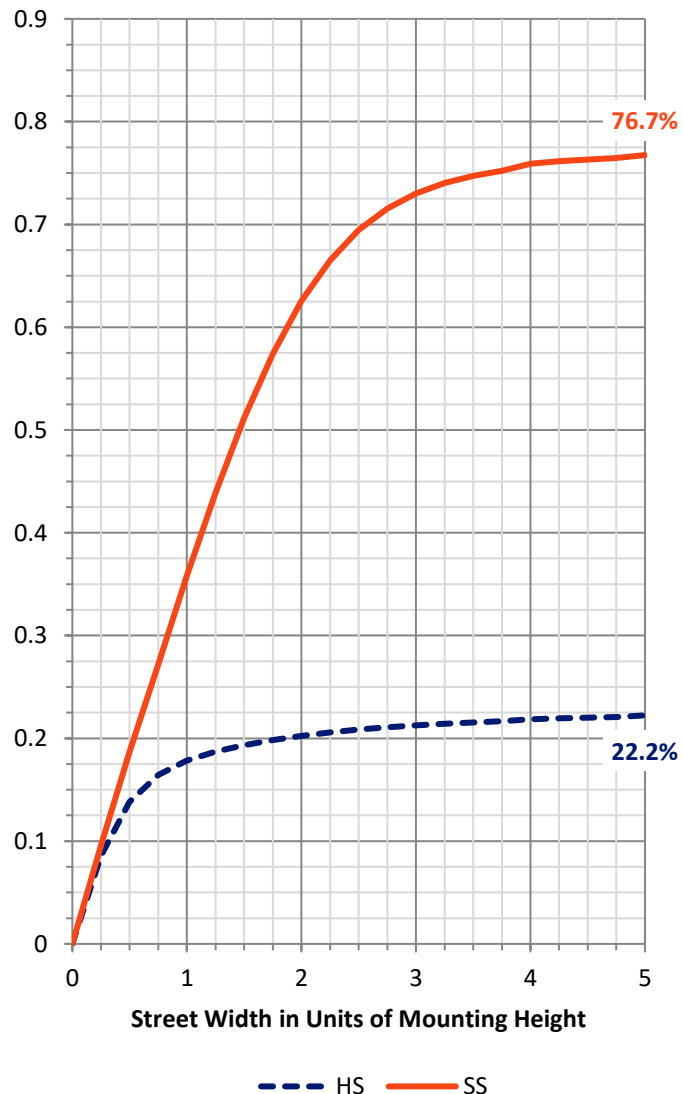
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6487.2	0.0	6487.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	21816.8	0.0	21816.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	28304.0	0.0	28304.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.0	1.0
10°-20°	979.4	3.5
20°-30°	1633.0	5.8
30°-40°	2317.4	8.2
40°-50°	3408.7	12.0
50°-60°	5772.7	20.4
60°-70°	8194.2	29.0
70°-80°	4978.1	17.6
80°-90°	726.5	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°	28304.0	100.0
0°-180°	28304.0	100.0

Coefficient of Utilization

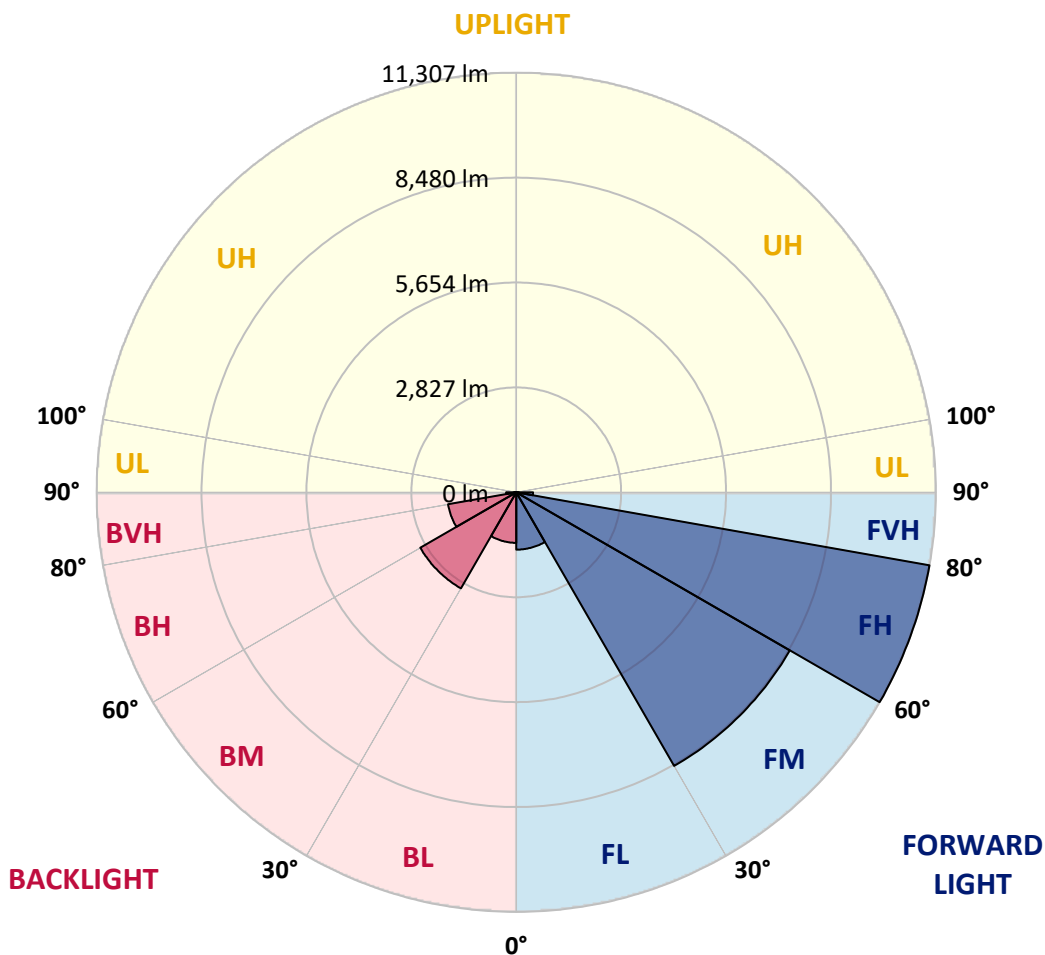


REPORT NUMBER: P319018
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1544.4	5.5			
FM (30°-60°)	8512.6	30.1			
FH (60°-80°)	11307.3	39.9			G4/12000
FVH (80°-90°)	452.5	1.6			G3/500
BL (0°-30°)	1362.0	4.8	B3/2500		
BM (30°-60°)	2986.2	10.6	B3/5000		
BH (60°-80°)	1865.0	6.6	B3/2500		G3/2500
BVH (80°-90°)	273.9	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°	2883.6	2883.6	2883.6	2883.6	2883.6	2883.6	2883.6	2883.6	2883.6	2883.6	2883.6
2.5°	3028.0	3029.9	3033.8	3024.1	2997.0	2989.2	2986.3	2958.2	2939.8	2912.7	2889.4
5°	3270.1	3272.0	3266.2	3239.1	3179.1	3134.5	3130.6	3066.7	3008.6	2946.6	2900.1
7.5°	3522.9	3525.8	3507.4	3456.1	3371.8	3294.3	3289.5	3202.3	3114.2	3020.2	2950.5
10°	3746.7	3735.1	3705.0	3633.3	3533.6	3438.7	3434.8	3343.7	3242.0	3128.7	3035.7
12.5°	3895.8	3886.2	3847.4	3760.2	3650.8	3563.6	3555.9	3471.6	3372.8	3248.8	3137.4
15°	3978.2	3985.0	3932.7	3833.9	3727.3	3653.7	3646.9	3586.9	3498.7	3373.8	3245.9
17.5°	3988.8	3994.6	3944.3	3846.4	3759.3	3708.9	3706.0	3666.3	3602.4	3482.2	3348.6
20°	3926.8	3930.7	3889.1	3808.7	3751.5	3736.0	3735.1	3717.6	3670.2	3563.6	3433.8
22.5°	3836.8	3839.7	3809.6	3751.5	3732.1	3756.4	3763.1	3756.4	3722.5	3622.7	3500.6
25°	3814.5	3812.5	3781.5	3722.5	3738.9	3790.3	3799.0	3801.9	3778.6	3691.5	3585.9
27.5°	3922.0	3915.2	3856.1	3761.2	3771.9	3833.9	3845.5	3873.6	3859.0	3782.5	3682.7
30°	4232.9	4221.3	4100.2	3908.4	3856.1	3888.1	3902.6	3947.2	3950.1	3886.2	3811.6
32.5°	4757.9	4743.4	4526.4	4183.5	3998.5	3943.3	3956.9	4023.7	4059.5	4010.1	3929.7
35°	5421.4	5405.0	5120.2	4651.4	4236.8	4048.9	4058.6	4111.9	4183.5	4113.8	4007.2
37.5°	6113.0	6073.3	5799.2	5201.6	4615.5	4274.6	4274.6	4281.4	4315.3	4170.0	4098.3
40°	6800.8	6761.1	6513.1	5848.6	5105.7	4630.1	4607.8	4457.7	4430.5	4305.6	4281.4
42.5°	7440.1	7428.5	7282.2	6579.9	5681.0	4979.7	4948.8	4694.0	4699.8	4622.3	4623.3
45°	8120.1	8120.1	8000.9	7318.0	6351.3	5541.6	5510.6	5135.7	5193.8	5158.0	5244.2
47.5°	8675.1	8692.5	8676.1	8087.1	7131.1	6255.4	6199.3	5747.9	5910.6	6033.6	6284.5
50°	9241.7	9268.9	9271.8	8930.8	8073.6	7104.0	7040.0	6560.6	6923.8	7276.4	7769.4
52.5°	10064.1	10125.1	9882.0	9772.5	9228.2	8111.3	8048.4	7605.7	8212.1	8707.1	9556.5
55°	10826.4	10773.1	10599.8	10667.6	10464.2	9258.2	9210.7	8822.3	9647.6	10290.8	11394.0
57.5°	11239.1	11235.2	11409.5	11700.1	11797.0	10672.4	10632.7	10254.9	11266.2	11749.5	13119.2
60°	11723.4	11730.2	12162.2	12821.8	13220.9	12433.4	12416.0	12129.2	12838.3	13111.4	14472.4
62.5°	11791.2	11913.2	12657.1	13792.4	14553.7	14490.8	14529.5	13817.6	14244.7	14198.2	15482.6
65°	11011.4	11172.2	12518.6	14085.9	15878.8	16740.9	16776.7	15515.6	15353.8	15127.2	15843.9
67.5°	9413.2	9651.5	11114.1	13447.5	16315.7	18404.0	18454.4	16832.0	16274.0	15442.0	14974.1
70°	6850.2	7114.6	8586.9	11485.1	15536.9	18935.8	18993.0	17414.1	16308.9	14546.0	12783.1
72.5°	4138.0	4345.3	5559.0	8455.2	13113.4	17967.2	18068.9	16676.0	14889.8	12321.0	9439.3
75°	1817.2	1952.8	2688.0	4872.2	9388.0	14865.6	14992.5	14273.8	12098.2	8954.1	5579.3
77.5°	773.9	812.7	1102.3	2116.5	5307.1	10158.1	10332.4	10429.3	8208.2	4872.2	2357.7
80°	482.4	497.9	623.8	958.0	2483.6	5705.3	5893.2	6136.3	4076.0	1791.0	823.3
82.5°	293.5	310.9	414.6	579.2	1293.1	2586.3	2676.3	2847.8	1581.8	773.9	426.2
85°	176.3	188.9	253.8	366.1	736.2	1017.1	1016.1	1123.6	744.9	497.9	224.7
87.5°	84.3	94.0	135.6	189.9	371.0	381.6	357.4	404.9	452.4	326.4	113.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P319018
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2883.6	2883.6	2883.6	2883.6	2883.6	2883.6	2883.6	2883.6	2883.6	2883.6	2883.6
2.5°	2881.7	2877.8	2865.2	2855.5	2853.6	2847.8	2842.9	2845.8	2849.7	2850.7	2850.7
5°	2880.7	2870.1	2853.6	2846.8	2855.5	2867.2	2881.7	2901.1	2912.7	2921.4	2927.2
7.5°	2927.2	2906.9	2888.5	2884.6	2902.0	2933.0	2966.0	3006.6	3034.7	3054.1	3058.0
10°	3004.7	2979.5	2961.1	2965.0	2996.0	3040.5	3087.0	3139.3	3182.0	3208.1	3210.1
12.5°	3093.8	3069.6	3052.2	3068.6	3120.0	3174.2	3222.6	3268.2	3306.9	3333.1	3333.1
15°	3196.5	3179.1	3158.7	3196.5	3266.2	3314.7	3335.0	3357.3	3378.6	3398.0	3394.1
17.5°	3295.3	3278.8	3268.2	3312.7	3385.4	3407.7	3394.1	3377.6	3377.6	3388.3	3390.2
20°	3380.5	3366.0	3372.8	3416.4	3454.1	3430.9	3380.5	3328.2	3306.9	3312.7	3318.5
22.5°	3455.1	3448.3	3468.7	3489.0	3461.9	3380.5	3287.5	3216.8	3190.7	3188.7	3190.7
25°	3542.3	3541.3	3566.5	3529.7	3409.6	3259.5	3134.5	3065.7	3051.2	3062.8	3082.2
27.5°	3650.8	3661.4	3674.0	3539.4	3303.0	3076.4	2949.5	2902.0	2916.6	2944.6	2963.1
30°	3789.3	3818.4	3791.2	3515.2	3150.0	2867.2	2746.1	2732.5	2772.2	2811.9	2831.3
32.5°	3923.9	3969.5	3903.6	3452.2	2952.4	2645.3	2551.4	2547.5	2595.9	2634.7	2661.8
35°	4032.4	4122.5	3987.9	3327.3	2723.8	2441.0	2372.2	2346.0	2363.5	2409.0	2440.0
37.5°	4173.8	4324.0	4046.0	3136.4	2475.8	2272.4	2192.0	2132.0	2116.5	2134.9	2150.4
40°	4432.5	4631.0	4073.1	2870.1	2233.7	2103.9	2022.5	1934.4	1873.3	1828.8	1829.7
42.5°	4854.8	5031.1	4055.7	2546.5	2009.9	1939.2	1847.2	1745.5	1646.7	1545.9	1538.2
45°	5540.6	5625.8	4003.4	2203.6	1813.3	1766.8	1680.6	1578.9	1447.1	1332.8	1322.2
47.5°	6638.0	6449.2	3922.0	1904.3	1639.9	1620.5	1541.1	1423.9	1284.4	1192.4	1184.6
50°	8134.6	7637.7	3882.3	1666.1	1486.9	1492.7	1427.8	1303.8	1172.0	1104.2	1096.5
52.5°	9924.6	9021.9	3958.8	1482.0	1363.8	1384.2	1335.7	1219.5	1109.1	1055.8	1048.1
55°	11781.5	10455.4	4041.1	1348.3	1247.6	1287.3	1270.8	1175.0	1075.2	1025.8	1019.0
57.5°	13371.0	11525.8	3876.5	1239.9	1144.0	1205.9	1220.5	1146.9	1057.7	1013.2	1005.4
60°	14371.6	11956.8	3444.5	1138.1	1061.6	1141.1	1191.4	1139.1	1064.5	1060.7	1054.8
62.5°	14846.3	11919.0	2796.4	1057.7	1010.3	1113.0	1212.7	1182.7	1142.0	1176.9	1179.8
65°	14633.2	11349.5	2082.6	1004.5	973.5	1123.6	1276.7	1265.0	1164.3	1199.2	1204.0
67.5°	13230.6	9990.5	1542.1	958.0	932.8	1153.6	1392.9	1292.2	1120.7	1145.9	1130.4
70°	10693.7	7920.5	1189.5	905.7	891.1	1149.8	1445.2	1275.7	1073.2	1079.1	1037.4
72.5°	7374.2	5401.1	967.7	857.2	831.1	1048.1	1408.4	1235.0	1033.5	989.0	933.8
75°	4010.1	2899.1	822.4	806.9	725.5	920.2	1340.6	1205.9	997.7	938.6	907.6
77.5°	1577.9	1203.0	713.9	738.1	634.5	812.7	1265.0	1150.7	948.3	870.8	855.3
80°	644.1	614.1	591.8	638.3	545.3	711.0	1174.0	1085.8	889.2	807.8	776.8
82.5°	365.2	381.6	460.1	503.7	442.7	654.8	1130.4	1033.5	818.5	723.6	686.8
85°	186.9	223.8	320.6	361.3	325.5	557.0	1041.3	904.7	656.7	554.1	557.0
87.5°	90.1	125.0	202.4	226.7	211.2	403.0	777.8	655.8	511.4	404.9	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

(END OF REPORT)