

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: P319308

Luminaire Tested: **GAN-SA4A-730-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319308
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16771 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

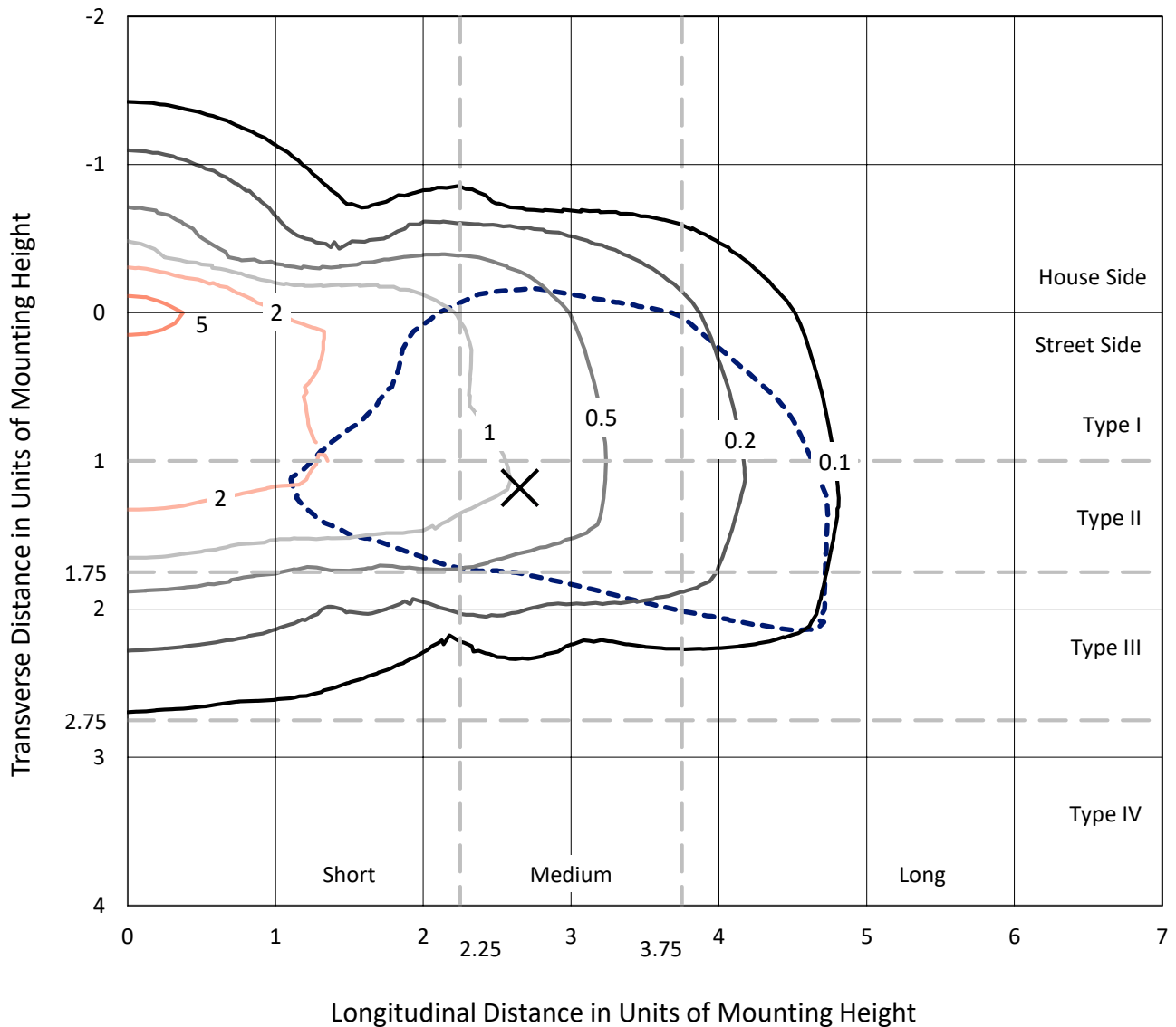
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

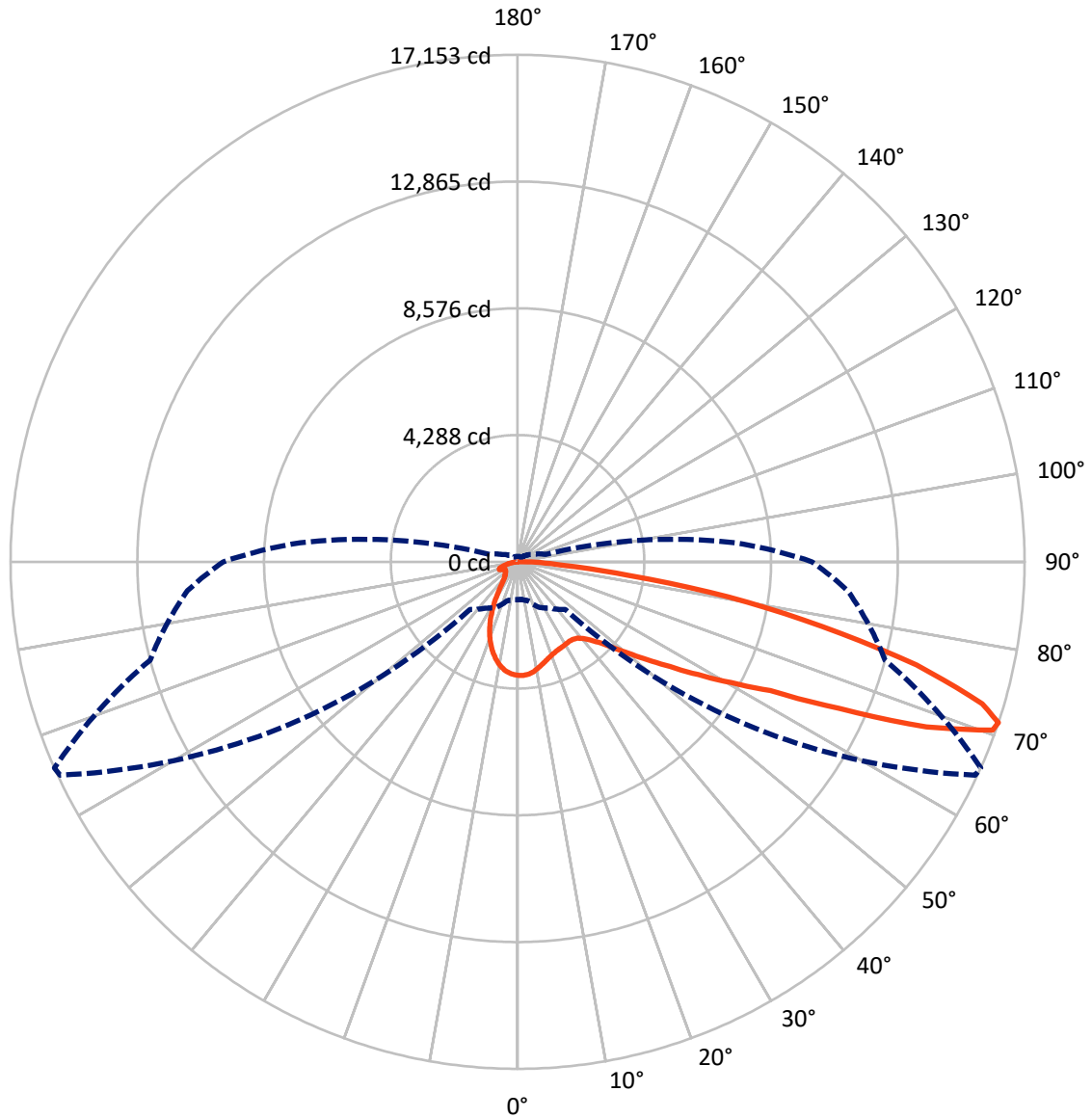
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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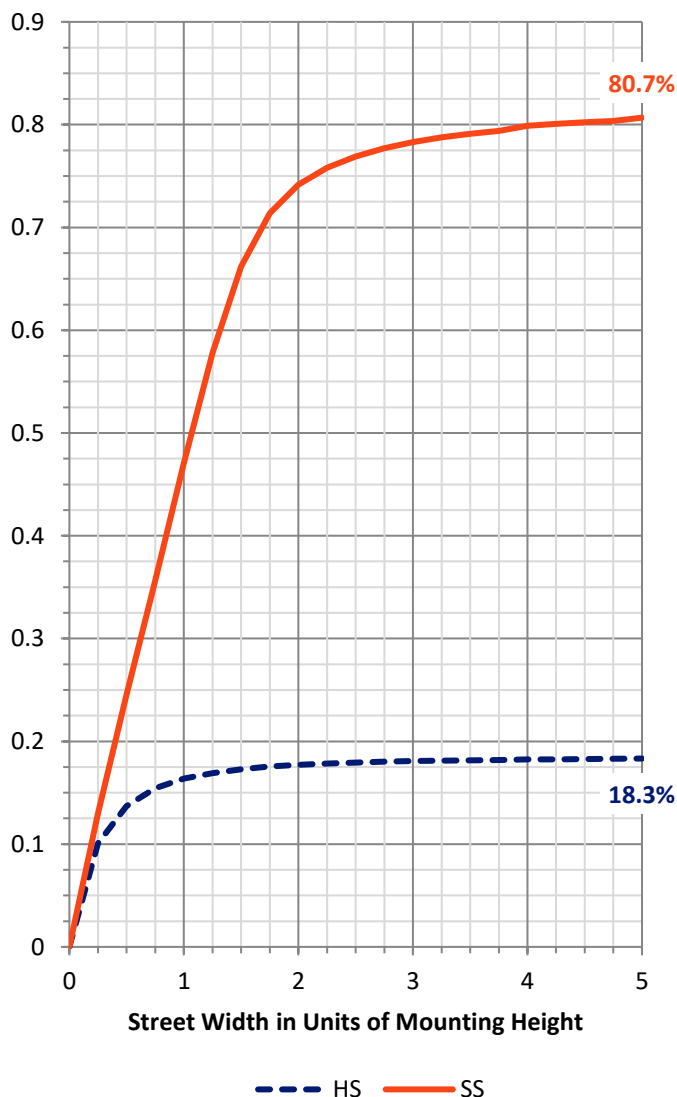
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3108.1	0.0	3108.1
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	13662.9	0.0	13662.9
	% Fixture	81.5	0.0	81.5
Total	Lumens	16771.0	0.0	16771.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.2	2.0
10°-20°	811.1	4.8
20°-30°	1089.5	6.5
30°-40°	1433.2	8.5
40°-50°	2085.0	12.4
50°-60°	3257.0	19.4
60°-70°	4079.9	24.3
70°-80°	3112.0	18.6
80°-90°	565.1	3.4
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°	16771.0	100.0
0°-180°	16771.0	100.0

Coefficient of Utilization

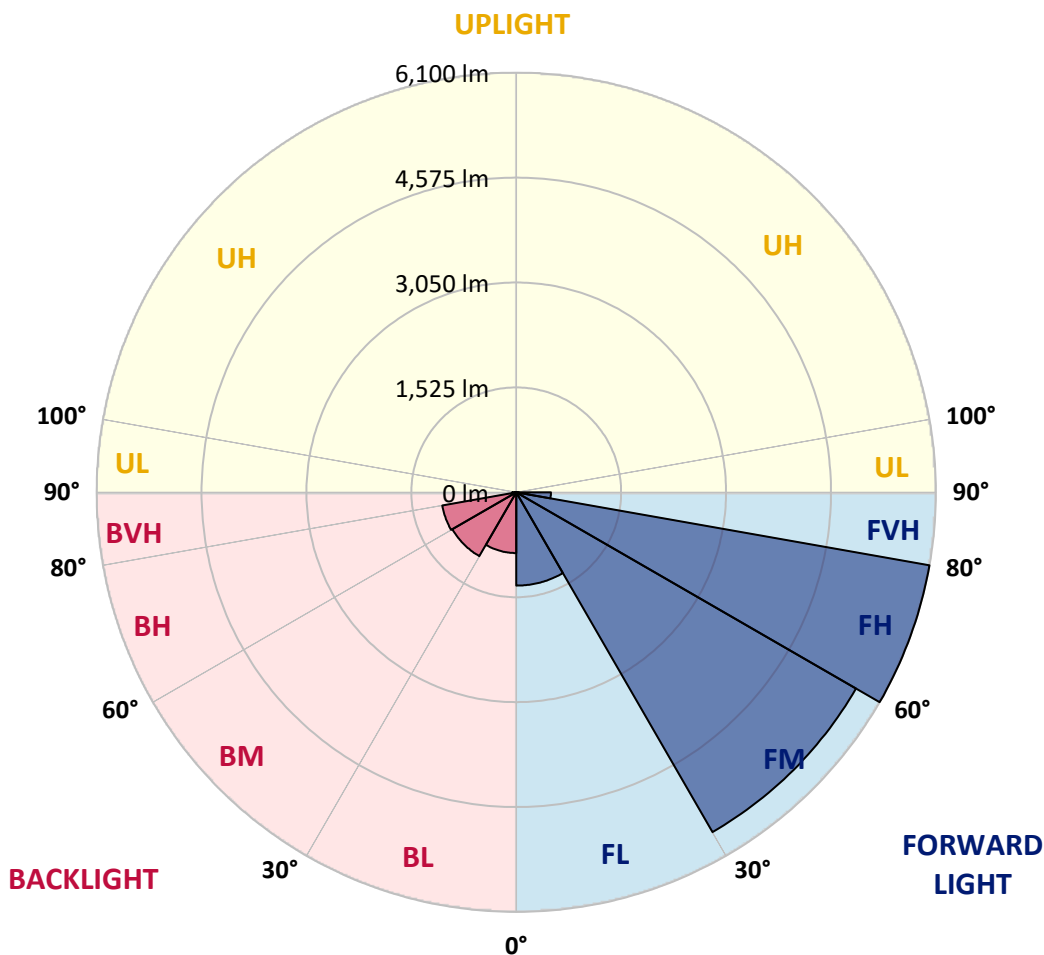


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1356.2	8.1			
FM (30°-60°)	5703.0	34.0			
FH (60°-80°)	6099.8	36.4			G3/7500
FVH (80°-90°)	503.9	3.0			G4/750
BL (0°-30°)	882.6	5.3	B2/1000		
BM (30°-60°)	1072.2	6.4	B2/2500		
BH (60°-80°)	1092.1	6.5	B3/2500		G3/2500
BVH (80°-90°)	61.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3841.9	3841.9	3841.9	3841.9	3841.9	3841.9	3841.9	3841.9	3841.9	3841.9	3841.9
2.5°	3770.7	3764.9	3782.3	3800.2	3807.2	3818.7	3836.1	3846.0	3845.4	3847.1	3841.3
5°	3520.5	3513.0	3547.8	3576.1	3630.6	3691.9	3766.6	3819.9	3821.1	3851.2	3859.3
7.5°	3283.7	3278.5	3318.5	3364.2	3427.3	3521.1	3642.1	3756.8	3763.7	3845.4	3873.8
10°	3093.8	3092.6	3131.4	3181.2	3254.8	3359.6	3498.5	3666.5	3676.9	3817.6	3876.1
12.5°	2945.6	2947.9	2981.5	3038.2	3115.8	3225.2	3375.8	3565.1	3581.9	3773.6	3862.8
15°	2836.1	2845.4	2872.6	2929.9	3006.4	3117.5	3272.1	3471.3	3496.8	3724.4	3855.2
17.5°	2773.6	2784.0	2803.1	2850.6	2922.4	3029.5	3176.0	3394.3	3417.5	3686.7	3855.8
20°	2755.1	2763.7	2774.7	2803.7	2864.5	2961.8	3100.2	3324.8	3349.7	3656.6	3861.6
22.5°	2791.5	2797.9	2799.1	2796.7	2833.8	2913.1	3045.2	3273.9	3300.5	3636.9	3865.7
25°	2869.7	2878.4	2872.0	2850.6	2838.4	2887.1	3016.8	3240.3	3266.9	3622.5	3857.5
27.5°	2987.3	2988.4	2983.2	2955.4	2898.1	2890.0	3008.1	3220.6	3246.1	3605.7	3840.8
30°	3147.1	3154.6	3145.3	3107.7	3013.9	2936.3	3018.5	3201.5	3224.7	3584.2	3813.5
32.5°	3334.1	3352.6	3352.0	3312.7	3178.3	3039.9	3061.4	3189.9	3207.9	3561.7	3780.5
35°	3528.1	3553.6	3601.0	3584.2	3418.1	3203.8	3143.6	3208.4	3220.6	3558.8	3757.4
37.5°	3729.6	3755.1	3852.9	3898.1	3703.5	3438.3	3273.3	3273.9	3279.7	3594.1	3755.6
40°	3940.3	3967.6	4114.6	4232.2	4073.5	3735.4	3482.3	3410.5	3404.2	3680.9	3789.8
42.5°	4235.7	4260.0	4436.6	4586.6	4484.1	4115.8	3771.3	3621.3	3608.0	3851.2	3899.2
45°	4609.1	4630.0	4817.6	4978.0	4925.3	4550.1	4134.3	3911.4	3909.1	4134.9	4121.0
47.5°	5053.3	5069.5	5238.0	5393.2	5412.3	5049.8	4590.6	4359.0	4321.4	4524.0	4464.4
50°	5515.9	5533.9	5648.5	5815.3	5957.1	5718.6	5177.8	4907.3	4857.0	5037.6	4950.8
52.5°	5822.2	5846.0	5945.6	6156.9	6569.8	6451.6	5872.0	5572.1	5495.6	5660.1	5593.5
55°	5685.6	5738.8	5891.1	6229.9	7059.6	7571.5	6728.4	6347.4	6261.1	6397.8	6358.4
57.5°	5064.3	5137.2	5345.1	5868.0	7128.5	8558.2	8023.1	7260.5	7199.7	7160.4	7178.3
60°	3928.8	3998.8	4256.5	4938.0	6648.5	9278.5	9971.6	8386.2	8298.2	7925.9	7942.1
62.5°	2780.5	2745.2	2921.8	3420.4	5402.4	9363.0	12188.7	9891.7	9602.2	8734.2	8663.0
65°	2120.4	2112.3	2191.7	2350.3	3272.1	8351.5	13509.5	12422.1	11969.9	9685.0	9517.1
67.5°	1742.3	1727.8	1806.0	2037.1	2107.1	5387.9	13538.5	15357.8	14913.7	10868.5	10504.9
70°	1432.5	1416.3	1489.3	1787.5	1947.3	2732.5	11394.3	17077.0	17053.2	12367.1	11250.7
71°	1284.3	1272.7	1360.2	1691.4	1913.1	2277.4	9837.8	17081.6	17152.8	12874.3	11206.7
72.5°	1045.7	1049.8	1142.4	1505.5	1887.7	2011.0	7230.4	16285.4	16436.0	13357.8	10806.6
75°	694.8	698.3	819.9	1158.1	1830.3	1967.6	3973.9	13665.3	13942.1	13068.3	9861.0
77.5°	466.7	465.5	548.3	794.4	1594.7	1967.6	2330.0	10220.6	10524.6	10398.3	7602.2
80°	321.4	319.0	377.5	548.3	1207.3	1991.3	1801.4	7162.7	7254.8	5615.5	3089.7
82.5°	196.9	198.6	246.7	387.4	821.7	1792.1	1700.6	3905.6	3805.4	1575.0	771.9
85°	112.9	112.3	157.5	262.3	527.5	1512.4	1658.4	1680.9	1542.0	474.2	279.1
87.5°	40.5	43.4	84.5	145.3	302.3	1053.3	1407.1	874.3	788.1	214.2	126.2
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°	3841.9	3841.9	3841.9	3841.9	3841.9	3841.9	3841.9	3841.9	3841.9	3841.9	3841.9
2.5°	3837.3	3840.8	3836.7	3813.5	3793.9	3762.0	3744.1	3719.2	3711.6	3708.2	3717.4
5°	3851.8	3852.9	3818.7	3758.0	3689.6	3609.1	3551.2	3480.0	3446.4	3432.0	3441.2
7.5°	3865.1	3859.9	3785.2	3668.8	3542.5	3402.4	3277.9	3163.9	3097.3	3070.1	3072.4
10°	3866.8	3844.8	3724.9	3544.9	3349.2	3143.6	2952.5	2776.5	2665.3	2592.9	2614.9
12.5°	3848.9	3811.8	3636.4	3384.5	3112.9	2832.6	2574.4	2310.4	2151.7	2078.2	2080.5
15°	3835.0	3767.8	3527.5	3195.7	2830.9	2459.7	2107.1	1796.8	1627.7	1552.4	1517.1
17.5°	3823.4	3720.3	3401.3	2983.2	2498.0	2027.2	1603.4	1326.6	1233.9	1211.9	1202.7
20°	3807.2	3669.9	3260.6	2737.1	2118.7	1543.1	1170.8	1034.2	1034.7	1060.2	1063.7
22.5°	3784.6	3612.6	3110.6	2460.9	1711.6	1123.9	917.8	878.4	918.4	967.0	975.7
25°	3751.0	3544.9	2943.8	2155.8	1305.1	863.9	784.0	782.3	830.9	881.9	889.4
27.5°	3703.5	3456.3	2758.5	1828.0	961.8	734.2	702.4	714.5	750.4	787.5	790.4
30°	3639.8	3353.2	2554.1	1482.3	753.9	653.7	650.3	661.3	683.3	709.3	711.6
32.5°	3569.8	3248.4	2335.8	1147.7	645.6	610.3	613.8	619.0	629.4	639.8	642.2
35°	3506.1	3141.3	2112.3	872.0	594.1	581.9	579.6	578.5	579.6	576.1	576.7
37.5°	3465.0	3052.7	1879.6	694.3	564.6	557.0	550.1	541.4	531.6	525.8	526.9
40°	3449.9	2986.7	1643.9	599.9	540.2	535.0	521.7	503.2	491.6	488.1	488.1
42.5°	3490.4	2952.5	1416.3	552.4	520.0	511.3	489.3	467.9	459.2	458.6	458.0
45°	3614.3	2966.4	1199.8	526.3	501.4	484.7	455.7	437.8	432.0	433.1	432.5
47.5°	3836.7	3053.8	1014.5	509.0	482.9	460.9	428.5	414.0	407.1	407.1	407.6
50°	4214.8	3258.2	866.8	494.5	467.3	438.9	408.8	390.9	381.6	381.0	381.0
52.5°	4765.5	3624.2	774.8	482.3	449.9	419.2	389.1	366.5	355.5	353.2	352.1
55°	5455.7	4148.8	749.3	474.2	426.8	397.8	365.4	342.8	330.6	325.4	324.8
57.5°	6227.5	4786.9	799.7	464.4	403.0	372.3	339.3	317.9	305.2	298.8	298.2
60°	7008.7	5483.5	1005.2	450.5	383.3	344.5	312.7	293.0	280.3	273.3	272.1
62.5°	7790.9	6217.7	1425.0	449.3	369.4	317.9	285.5	268.7	256.5	249.0	247.2
65°	8673.4	7021.4	1902.1	480.0	364.8	293.6	257.7	244.4	233.9	227.0	226.4
67.5°	9686.7	7928.8	1856.4	543.1	380.4	271.6	231.6	221.2	213.7	207.9	207.3
70°	10162.1	7786.9	1154.0	587.7	402.4	250.1	206.7	199.2	193.4	189.3	187.6
71°	9962.9	7393.7	967.6	582.5	400.1	240.9	196.9	191.1	185.3	181.8	180.1
72.5°	9419.8	6742.9	807.2	542.0	374.1	224.1	184.1	178.3	173.1	169.1	167.9
75°	8452.8	6022.0	646.2	433.1	298.2	189.3	161.6	155.2	151.1	148.8	146.5
77.5°	6213.6	4297.6	499.7	342.2	219.5	154.6	137.8	133.2	129.1	125.7	123.9
80°	2380.4	1664.7	336.4	255.4	161.0	122.2	111.2	108.9	104.8	102.5	102.5
82.5°	641.0	497.4	179.5	154.6	107.7	89.2	85.1	84.0	80.5	75.9	76.4
85°	259.4	219.5	100.8	85.1	66.0	52.7	57.3	57.9	53.9	48.1	48.6
87.5°	114.1	93.2	56.2	37.6	29.0	20.3	26.1	26.1	23.7	19.7	18.0
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)