

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: P383053

Luminaire Tested: **GAN-SA4A-735-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383053
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-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 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: 17155.4 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

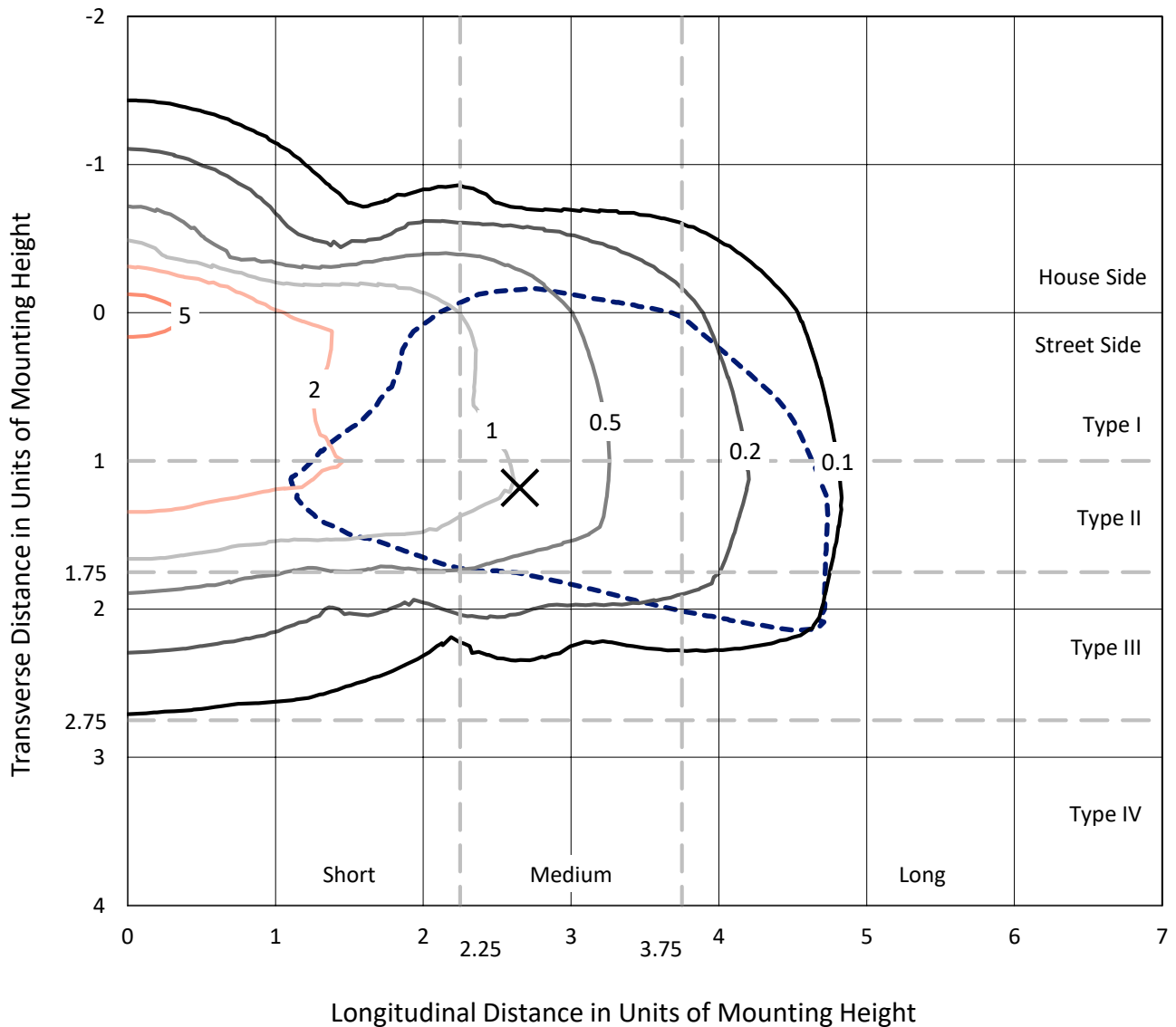
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

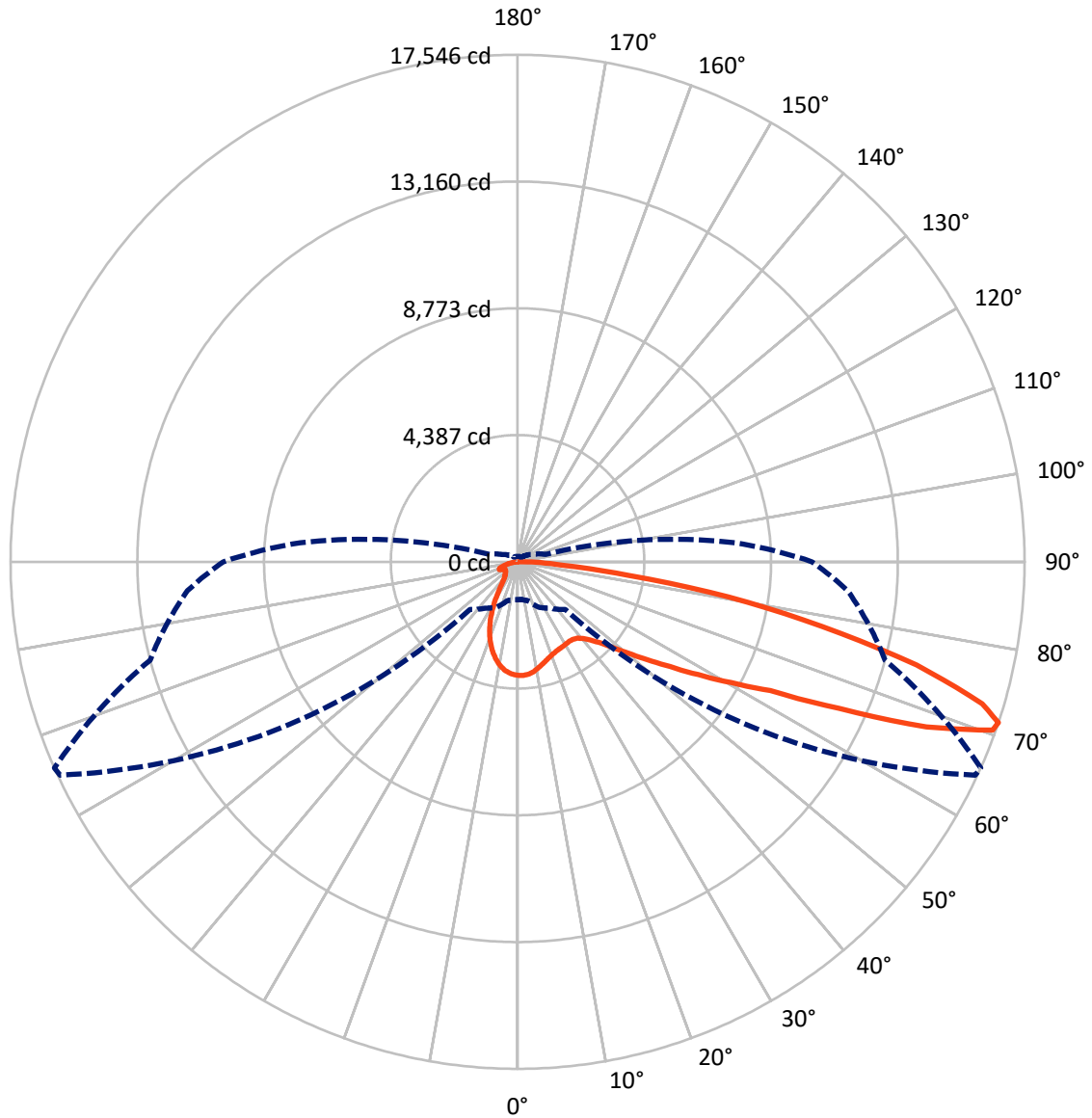
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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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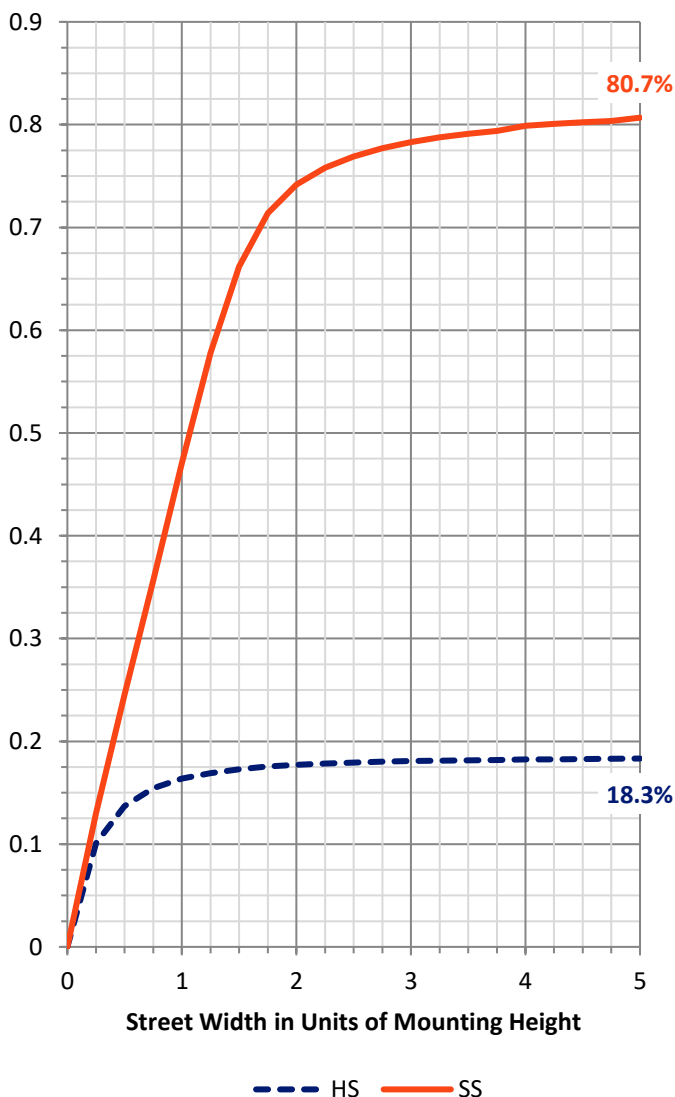
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3179.3	0.0	3179.3
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	13976.0	0.0	13976.0
	% Fixture	81.5	0.0	81.5
Total	Lumens	17155.4	0.0	17155.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.9	2.0
10°-20°	829.7	4.8
20°-30°	1114.5	6.5
30°-40°	1466.1	8.5
40°-50°	2132.8	12.4
50°-60°	3331.6	19.4
60°-70°	4173.4	24.3
70°-80°	3183.4	18.6
80°-90°	578.1	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°	17155.4	100.0
0°-180°	17155.4	100.0

Coefficient of Utilization

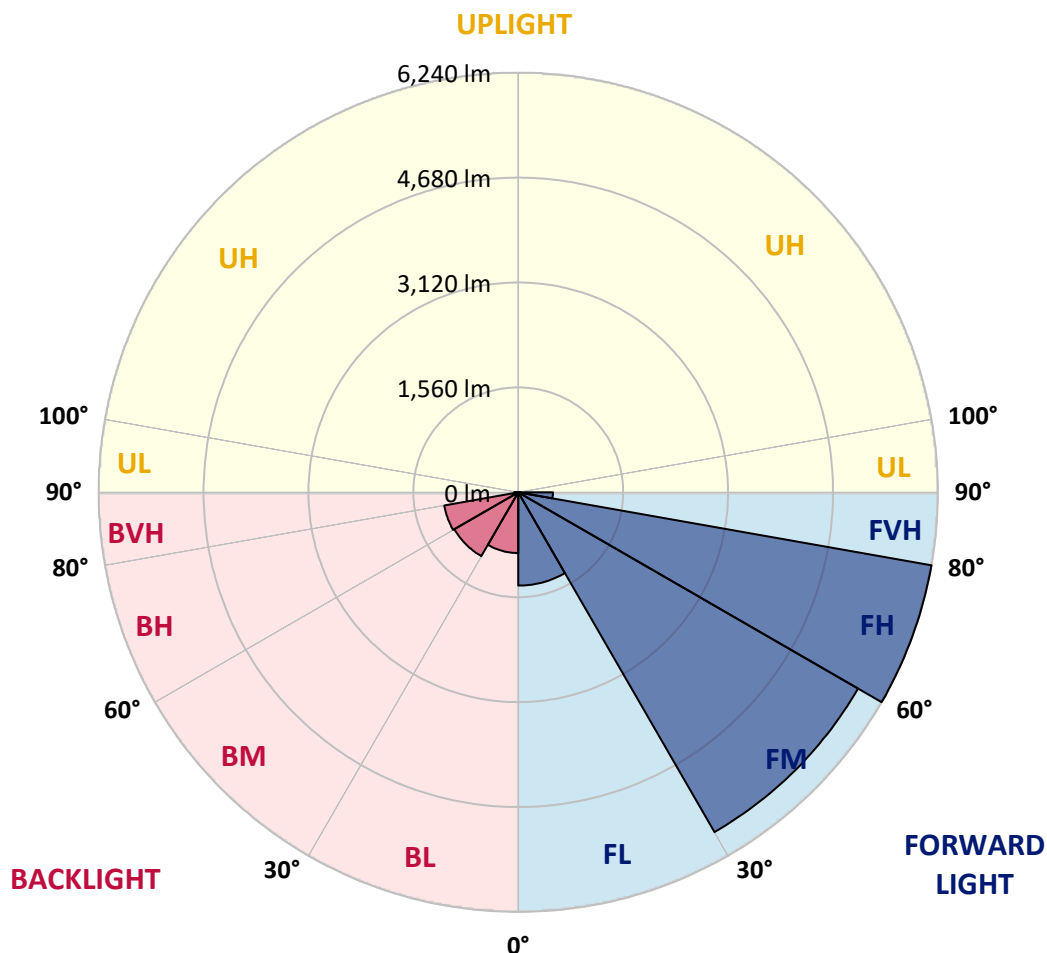


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1387.3	8.1			
FM (30°-60°)	5833.7	34.0			
FH (60°-80°)	6239.6	36.4			G3/7500
FVH (80°-90°)	515.5	3.0			G4/750
BL (0°-30°)	902.9	5.3	B2/1000		
BM (30°-60°)	1096.8	6.4	B2/2500		
BH (60°-80°)	1117.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	62.6	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°	3929.9	3929.9	3929.9	3929.9	3929.9	3929.9	3929.9	3929.9	3929.9	3929.9	3929.9
2.5°	3857.1	3851.2	3869.0	3887.3	3894.4	3906.3	3924.1	3934.1	3933.6	3935.3	3929.4
5°	3601.3	3593.5	3629.0	3658.1	3713.8	3776.6	3853.0	3907.5	3908.7	3939.4	3947.7
7.5°	3359.0	3353.7	3394.6	3441.3	3505.9	3601.8	3725.6	3842.9	3850.0	3933.6	3962.5
10°	3164.7	3163.5	3203.2	3254.2	3329.4	3436.6	3578.7	3750.5	3761.1	3905.0	3964.9
12.5°	3013.1	3015.4	3049.8	3107.8	3187.2	3299.2	3453.2	3646.8	3664.1	3860.1	3951.3
15°	2901.1	2910.6	2938.5	2997.1	3075.2	3189.0	3347.1	3550.9	3577.0	3809.8	3943.6
17.5°	2837.1	2847.8	2867.4	2915.9	2989.3	3099.0	3248.8	3472.2	3495.8	3771.2	3944.2
20°	2818.2	2827.1	2838.3	2868.0	2930.2	3029.7	3171.2	3401.1	3426.5	3740.4	3950.1
22.5°	2855.5	2862.0	2863.2	2860.9	2898.8	2979.9	3114.9	3348.9	3376.1	3720.3	3954.2
25°	2935.5	2944.3	2937.8	2915.9	2903.5	2953.3	3085.9	3314.5	3341.8	3705.5	3945.9
27.5°	3055.8	3056.9	3051.6	3023.2	2964.5	2956.2	3077.1	3294.4	3320.5	3688.3	3928.8
30°	3219.1	3226.9	3217.4	3178.9	3083.0	3003.6	3087.7	3274.9	3298.6	3666.4	3900.9
32.5°	3410.5	3429.5	3428.8	3388.6	3251.2	3109.6	3131.5	3263.0	3281.4	3643.3	3867.2
35°	3608.9	3635.0	3683.5	3666.4	3496.4	3277.3	3215.6	3281.9	3294.4	3640.3	3843.5
37.5°	3815.1	3841.1	3941.2	3987.4	3788.4	3517.2	3348.4	3348.9	3354.9	3676.4	3841.7
40°	4030.6	4058.5	4208.9	4329.2	4166.9	3821.0	3562.1	3488.7	3482.2	3765.3	3876.6
42.5°	4332.7	4357.6	4538.2	4691.6	4586.8	4210.1	3857.7	3704.3	3690.7	3939.4	3988.6
45°	4714.7	4736.1	4928.0	5092.1	5038.2	4654.4	4229.0	4001.0	3998.7	4229.7	4215.4
47.5°	5169.1	5185.6	5358.0	5516.7	5536.3	5165.5	4695.8	4458.9	4420.4	4627.7	4566.7
50°	5642.3	5660.7	5777.9	5948.6	6093.6	5849.7	5296.4	5019.8	4968.3	5153.0	5064.3
52.5°	5955.7	5980.0	6081.8	6298.0	6720.4	6599.5	6006.6	5699.8	5621.6	5789.8	5721.7
55°	5815.8	5870.3	6026.2	6372.6	7221.5	7745.0	6882.6	6492.9	6404.7	6544.4	6504.2
57.5°	5180.3	5255.0	5467.6	6002.4	7291.9	8754.3	8207.0	7426.9	7364.7	7324.5	7342.8
60°	4018.8	4090.5	4354.1	5051.2	6800.9	9491.2	10200.2	8578.4	8488.4	8107.5	8124.1
62.5°	2844.3	2808.2	2988.8	3498.8	5526.2	9577.6	12468.1	10118.4	9822.2	8934.4	8861.5
65°	2169.0	2160.7	2241.9	2404.1	3347.1	8542.9	13819.1	12706.8	12244.2	9906.9	9735.1
67.5°	1782.2	1767.4	1847.4	2083.8	2155.4	5511.4	13848.8	15709.8	15255.5	11117.6	10745.7
70°	1465.3	1448.7	1523.5	1828.4	1991.9	2795.1	11655.4	17468.4	17444.1	12650.5	11508.5
71°	1313.8	1301.9	1391.4	1730.2	1957.0	2329.5	10063.3	17473.1	17546.0	13169.4	11463.5
72.5°	1069.7	1073.9	1168.6	1540.0	1930.9	2057.0	7396.1	16658.7	16812.7	13663.9	11054.2
75°	710.8	714.3	838.7	1184.6	1872.3	2012.7	4065.0	13978.4	14261.6	13367.8	10087.0
77.5°	477.4	476.2	560.9	812.7	1631.2	2012.7	2383.5	10454.9	10765.8	10636.7	7776.4
80°	328.7	326.3	386.2	560.9	1235.0	2036.9	1842.7	7326.8	7421.0	5744.2	3160.6
82.5°	201.4	203.2	252.4	396.3	840.4	1833.2	1739.6	3995.1	3892.7	1611.1	789.6
85°	115.5	115.0	161.1	268.3	539.6	1547.1	1696.3	1719.5	1577.3	485.1	285.5
87.5°	41.5	44.4	86.4	148.7	309.2	1077.4	1439.3	894.4	806.2	219.2	129.1
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°	3929.9	3929.9	3929.9	3929.9	3929.9	3929.9	3929.9	3929.9	3929.9	3929.9	3929.9
2.5°	3925.3	3928.8	3924.6	3900.9	3880.8	3848.2	3829.9	3804.4	3796.7	3793.2	3802.6
5°	3940.1	3941.2	3906.3	3844.1	3774.2	3691.8	3632.7	3559.8	3525.4	3510.6	3520.1
7.5°	3953.7	3948.4	3871.9	3752.8	3623.7	3480.4	3353.0	3236.4	3168.3	3140.4	3142.8
10°	3955.4	3932.9	3810.3	3626.1	3426.0	3215.6	3020.2	2840.1	2726.4	2652.4	2674.8
12.5°	3937.1	3899.2	3719.7	3462.0	3184.2	2897.6	2633.4	2363.3	2201.1	2125.8	2128.1
15°	3922.8	3854.2	3608.3	3269.0	2895.8	2516.1	2155.4	1837.9	1665.0	1588.0	1551.9
17.5°	3911.0	3805.6	3479.2	3051.6	2555.2	2073.6	1640.1	1357.0	1262.2	1239.7	1230.2
20°	3894.4	3754.0	3335.3	2799.9	2167.2	1578.5	1197.7	1057.9	1058.4	1084.5	1088.0
22.5°	3871.3	3695.4	3181.9	2517.3	1750.8	1149.7	938.8	898.6	939.4	989.1	998.1
25°	3837.0	3626.1	3011.3	2205.2	1335.1	883.8	802.0	800.2	849.9	902.1	909.7
27.5°	3788.4	3535.5	2821.8	1869.9	983.8	751.0	718.5	730.9	767.6	805.5	808.5
30°	3723.2	3430.1	2612.7	1516.3	771.2	668.8	665.1	676.4	698.9	725.6	727.9
32.5°	3651.6	3322.8	2389.3	1173.9	660.5	624.3	627.9	633.2	643.8	654.5	656.8
35°	3586.5	3213.3	2160.7	892.0	607.7	595.3	592.9	591.7	592.9	589.4	589.9
37.5°	3544.4	3122.6	1922.6	710.2	577.5	569.8	562.7	553.8	543.7	537.8	539.0
40°	3529.0	3055.1	1681.5	613.6	552.6	547.3	533.7	514.7	502.8	499.3	499.3
42.5°	3570.4	3020.2	1448.7	565.1	531.9	523.0	500.5	478.6	469.7	469.1	468.5
45°	3697.2	3034.4	1227.2	538.4	512.9	495.8	466.1	447.8	441.8	443.0	442.5
47.5°	3924.6	3123.9	1037.7	520.6	494.0	471.5	438.3	423.5	416.4	416.4	417.0
50°	4311.4	3332.9	886.6	505.8	478.0	449.0	418.2	399.8	390.3	389.8	389.8
52.5°	4874.7	3707.3	792.5	493.3	460.2	428.8	398.1	374.9	363.7	361.3	360.1
55°	5580.7	4243.9	766.5	485.1	436.5	406.9	373.7	350.6	338.2	332.8	332.3
57.5°	6370.3	4896.6	818.0	475.0	412.2	380.8	347.1	325.2	312.2	305.6	305.1
60°	7169.3	5609.1	1028.2	460.8	392.1	352.4	319.8	299.7	286.6	279.6	278.3
62.5°	7969.5	6360.2	1457.7	459.6	377.9	325.2	292.0	274.8	262.4	254.7	252.9
65°	8872.2	7182.3	1945.7	491.0	373.2	300.3	263.5	249.9	239.3	232.1	231.6
67.5°	9908.7	8110.5	1899.0	555.6	389.1	277.8	236.9	226.3	218.5	212.7	212.0
70°	10395.0	7965.4	1180.5	601.2	411.7	255.9	211.5	203.7	197.9	193.7	191.9
71°	10191.2	7563.1	989.8	595.8	409.3	246.4	201.4	195.4	189.6	186.0	184.2
72.5°	9635.6	6897.5	825.7	554.4	382.6	229.3	188.4	182.4	177.1	173.0	171.8
75°	8646.5	6160.0	661.0	443.0	305.1	193.7	165.3	158.7	154.6	152.2	149.9
77.5°	6356.0	4396.1	511.1	350.1	224.5	158.2	140.9	136.2	132.1	128.6	126.8
80°	2435.0	1702.9	344.1	261.2	164.7	125.0	113.7	111.3	107.2	104.8	104.8
82.5°	655.7	508.8	183.6	158.2	110.2	91.2	87.1	85.9	82.3	77.6	78.2
85°	265.4	224.5	103.0	87.1	67.5	53.9	58.6	59.2	55.1	49.2	49.7
87.5°	116.7	95.4	57.5	38.5	29.6	20.8	26.6	26.6	24.3	20.1	18.4
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)