

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: P319667

Luminaire Tested: **GAN-SA3A-740-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319667
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14229 lumens
Efficiency: N/A
Efficacy: 148.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

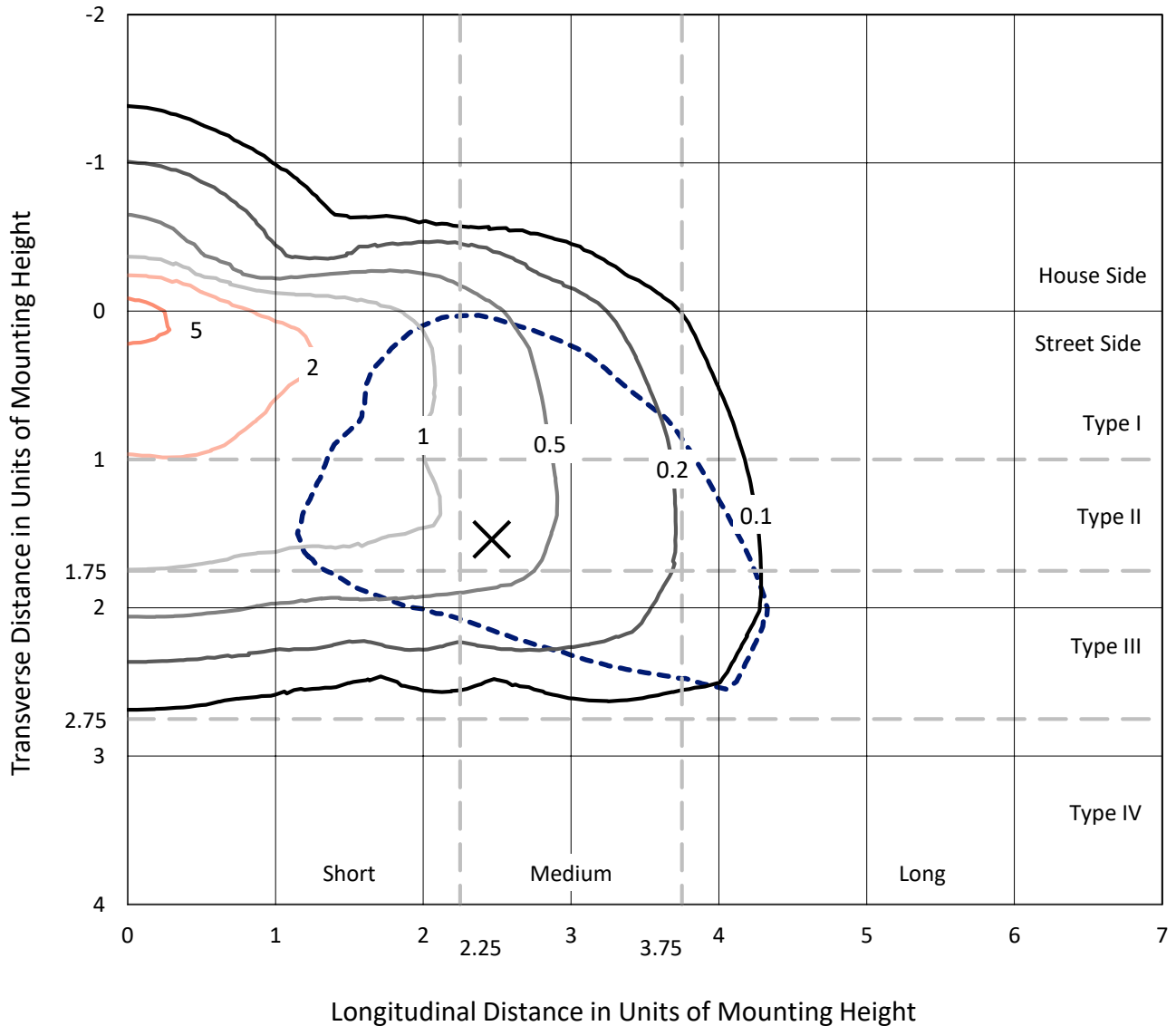
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

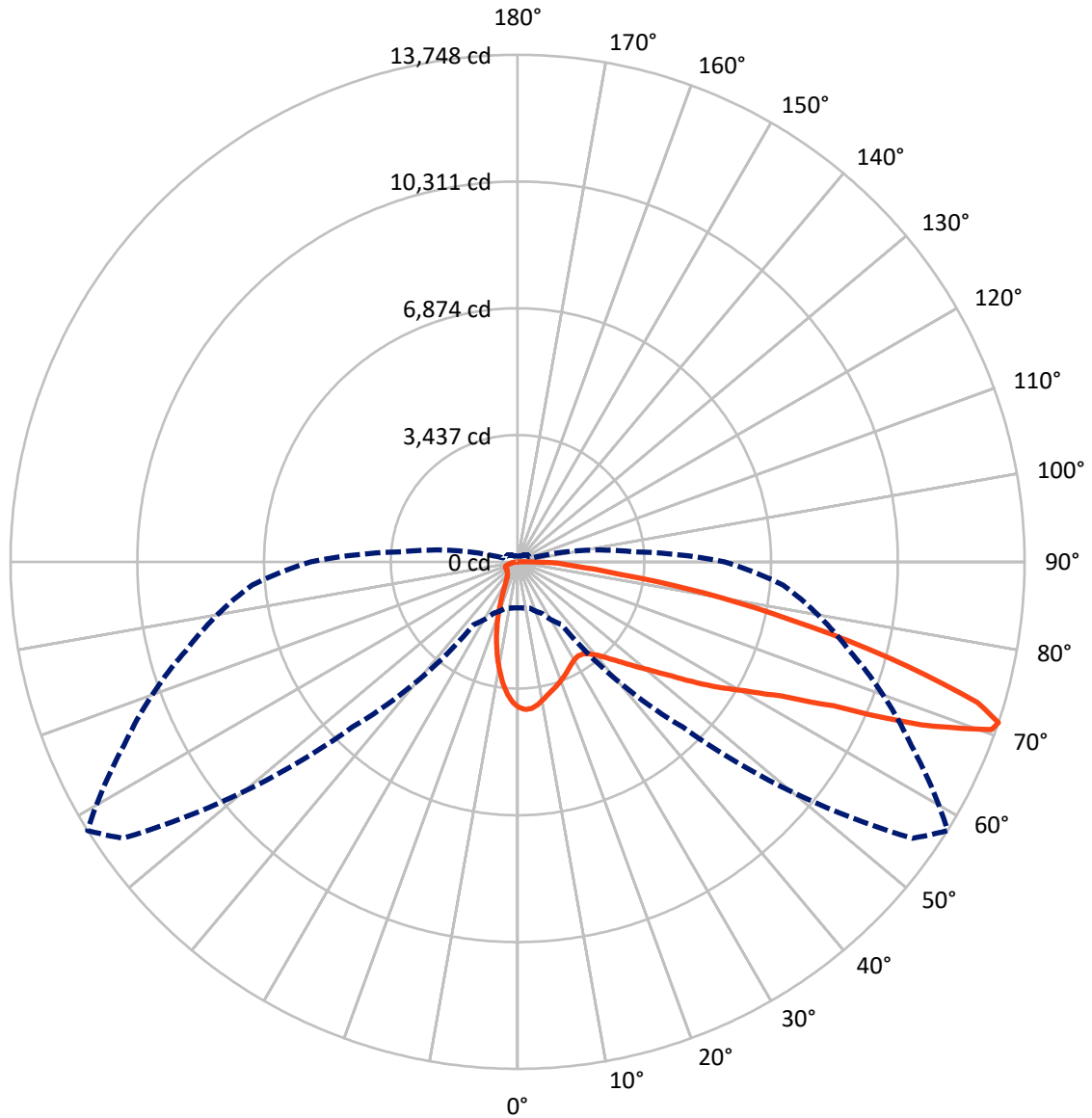
× Max cd
 - - - 1/2 Max cd



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 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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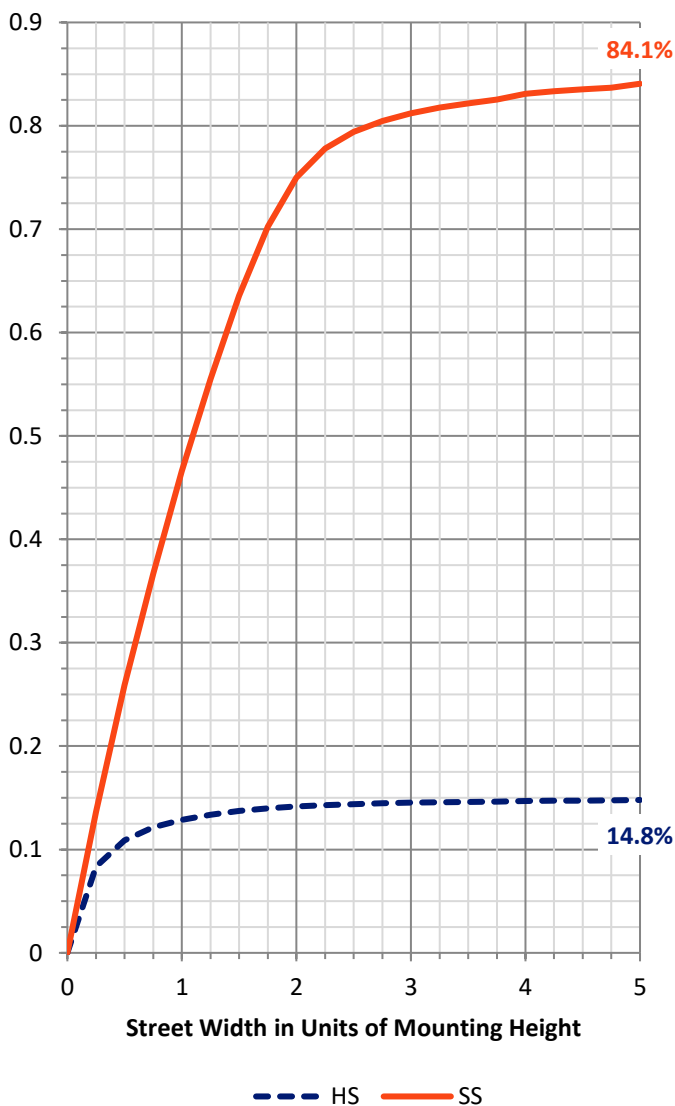
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2127.3	0.0	2127.3
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	12101.7	0.0	12101.7
	% Fixture	85.0	0.0	85.0
Total	Lumens	14229.0	0.0	14229.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.1	2.4
10°-20°	756.3	5.3
20°-30°	961.1	6.8
30°-40°	1224.3	8.6
40°-50°	1736.1	12.2
50°-60°	2686.7	18.9
60°-70°	3657.6	25.7
70°-80°	2440.1	17.1
80°-90°	426.6	3.0
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°	14229.0	100.0
0°-180°	14229.0	100.0

Coefficient of Utilization

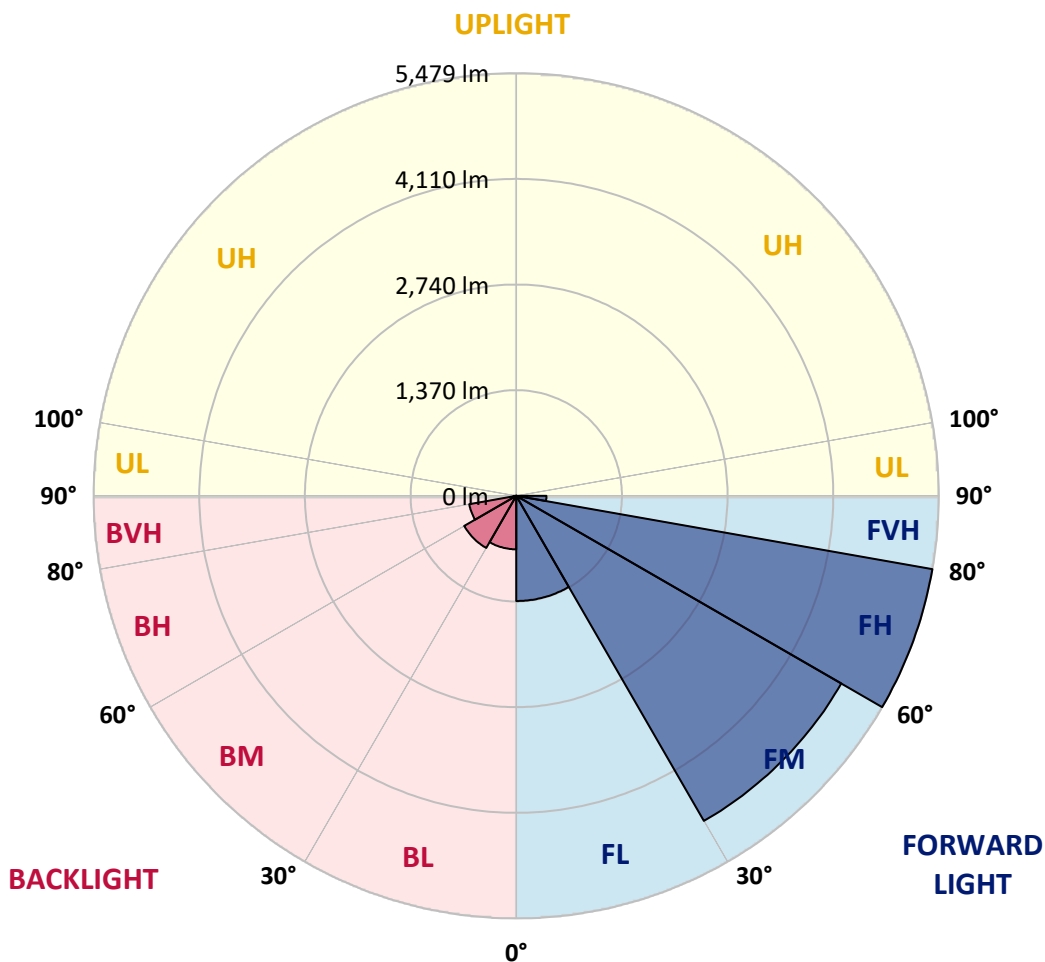


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1364.1	9.6			
FM (30°-60°)	4867.0	34.2			
FH (60°-80°)	5479.4	38.5			G3/7500
FVH (80°-90°)	391.2	2.7			G3/500
BL (0°-30°)	693.4	4.9	B2/1000		
BM (30°-60°)	780.2	5.5	B1/1000		
BH (60°-80°)	618.3	4.3	B2/1000		G2/1000
BVH (80°-90°)	35.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3942.4	3942.4	3942.4	3942.4	3942.4	3942.4	3942.4	3942.4	3942.4	3942.4	3942.4
2.5°	4047.0	4041.5	4043.5	4039.5	4030.1	4020.7	4006.8	4009.3	3990.0	3961.2	3925.5
5°	3970.6	3968.7	3983.5	3991.9	3998.9	3993.4	3989.5	3994.4	3966.2	3926.5	3864.6
7.5°	3810.5	3788.7	3807.6	3835.8	3862.6	3882.9	3909.7	3913.1	3895.3	3853.7	3772.4
10°	3583.0	3562.2	3590.0	3634.1	3687.6	3736.2	3790.2	3800.1	3803.6	3765.9	3667.3
12.5°	3347.1	3331.3	3359.0	3421.0	3509.7	3584.5	3670.8	3685.6	3716.4	3691.1	3570.2
15°	3136.0	3130.0	3163.7	3224.7	3326.8	3441.3	3565.7	3593.0	3645.0	3636.6	3494.3
17.5°	2953.6	2952.1	2977.9	3041.8	3154.8	3299.5	3461.1	3507.2	3584.5	3594.4	3431.9
20°	2817.8	2814.8	2832.6	2879.7	2996.2	3160.3	3348.1	3411.5	3523.1	3557.8	3367.4
22.5°	2744.9	2744.4	2744.9	2767.2	2862.4	3015.0	3238.1	3315.4	3463.1	3528.5	3296.1
25°	2732.5	2731.0	2720.1	2717.6	2771.7	2893.6	3129.0	3214.3	3406.1	3508.2	3228.2
27.5°	2764.7	2766.7	2752.3	2729.0	2739.9	2813.8	3034.4	3125.6	3360.5	3504.2	3181.1
30°	2831.6	2830.6	2818.3	2794.0	2772.7	2784.1	2966.9	3058.1	3329.8	3521.6	3148.9
32.5°	2905.5	2910.9	2908.5	2895.1	2863.4	2817.8	2946.6	3035.8	3320.8	3563.2	3135.0
35°	2994.2	3000.2	3018.0	3028.4	2991.2	2917.9	2990.2	3067.6	3346.6	3641.5	3157.3
37.5°	3078.5	3093.8	3143.9	3188.0	3156.3	3074.5	3106.2	3161.2	3426.4	3764.9	3217.3
40°	3175.6	3189.0	3270.8	3364.5	3359.5	3274.7	3293.1	3329.8	3567.2	3941.9	3325.8
42.5°	3271.3	3298.0	3416.5	3549.3	3587.5	3512.7	3541.9	3561.2	3765.4	4176.3	3515.1
45°	3398.7	3427.4	3592.0	3752.1	3841.3	3799.1	3845.7	3853.2	4014.7	4495.5	3790.2
47.5°	3591.5	3624.2	3816.0	3984.0	4120.3	4124.8	4201.6	4198.6	4326.0	4860.8	4136.7
50°	3891.8	3938.9	4096.0	4253.2	4418.7	4510.9	4613.5	4599.1	4699.2	5249.9	4535.7
52.5°	4285.4	4307.2	4423.7	4539.6	4745.3	4952.0	5099.2	5086.3	5122.5	5649.9	4988.7
55°	4693.3	4709.6	4757.7	4821.2	5097.7	5434.8	5746.0	5725.7	5634.0	6065.2	5436.3
57.5°	5060.1	5093.3	5126.5	5152.8	5452.6	5939.4	6407.7	6409.2	6189.2	6513.3	5898.7
60°	5117.1	5146.3	5365.9	5573.1	6059.8	6612.4	7116.0	7101.1	6763.6	6999.5	6414.2
62.5°	4523.3	4589.2	4956.0	5507.1	6644.7	7843.6	8019.6	8001.2	7450.6	7598.8	7014.4
65°	3241.5	3316.4	3759.0	4587.2	6361.1	9200.2	9650.3	9403.4	8387.4	8335.8	7717.2
67.5°	1870.1	1887.9	2079.7	2744.9	4843.5	9271.1	12137.9	11792.5	9842.1	9172.0	8061.2
70°	1382.9	1382.4	1428.0	1689.2	2621.0	7566.6	13321.0	13630.8	11373.6	9447.1	7575.0
71°	1250.5	1252.0	1303.1	1537.5	2075.8	6333.4	13069.7	13747.8	11777.1	9311.2	7223.1
72.5°	1069.6	1074.6	1145.4	1378.9	1746.2	4367.7	11987.2	13046.0	11968.4	8976.2	6672.4
75°	811.4	822.8	920.9	1162.3	1596.0	2215.1	8797.8	10417.5	10632.1	7920.5	4958.0
77.5°	578.9	591.8	702.8	977.4	1517.2	1669.3	5891.8	7598.8	7824.3	5075.9	2236.4
80°	365.8	381.2	464.9	777.7	1425.5	1585.1	3702.5	5107.7	4266.5	1624.2	569.0
82.5°	214.6	226.5	288.5	508.0	1164.3	1526.6	2178.4	2831.1	1660.4	490.7	258.7
85°	124.4	129.9	179.9	323.7	845.6	1440.8	1600.4	1582.6	720.7	239.9	122.4
87.5°	58.0	64.4	106.6	169.0	469.4	1044.3	1264.9	1092.9	448.1	112.5	57.5
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°	3942.4	3942.4	3942.4	3942.4	3942.4	3942.4	3942.4	3942.4	3942.4	3942.4	3942.4
2.5°	3908.2	3899.8	3864.6	3833.3	3800.6	3758.0	3710.9	3705.0	3676.2	3681.7	3671.8
5°	3830.9	3809.6	3724.8	3648.0	3557.3	3476.0	3387.8	3347.1	3288.6	3284.7	3269.8
7.5°	3720.3	3680.7	3549.3	3403.6	3257.9	3119.1	2981.8	2891.6	2799.4	2760.3	2756.8
10°	3595.9	3528.5	3335.2	3119.6	2909.5	2706.7	2510.5	2365.2	2234.4	2172.4	2169.9
12.5°	3478.0	3378.3	3113.2	2819.7	2532.3	2269.6	2000.4	1809.6	1645.6	1590.5	1567.2
15°	3377.8	3237.6	2897.1	2521.9	2172.9	1808.1	1501.8	1301.1	1149.4	1096.9	1087.0
17.5°	3280.7	3100.3	2675.5	2221.0	1799.2	1398.2	1091.4	942.2	861.4	840.1	839.6
20°	3184.0	2959.0	2444.0	1913.2	1437.9	1045.8	839.1	772.2	745.0	742.5	738.5
22.5°	3074.5	2809.3	2200.7	1604.4	1122.1	822.3	713.2	686.5	683.0	691.9	691.9
25°	2971.9	2660.6	1953.8	1302.1	872.8	686.0	636.9	631.5	640.9	656.7	658.2
27.5°	2876.2	2517.4	1713.0	1033.4	699.4	604.2	583.9	590.3	607.2	625.5	626.0
30°	2797.4	2382.1	1479.0	814.3	590.8	543.2	539.8	552.6	571.0	585.4	588.8
32.5°	2736.5	2266.6	1253.0	654.8	519.9	497.6	500.6	511.5	522.9	530.8	536.3
35°	2708.2	2167.5	1044.3	552.2	474.8	462.4	466.4	472.4	477.3	483.3	487.7
37.5°	2713.2	2090.6	858.0	488.2	444.6	438.2	438.2	438.2	438.2	441.1	441.6
40°	2759.3	2046.5	706.3	447.6	424.3	417.3	411.9	406.9	403.0	404.9	404.0
42.5°	2877.2	2042.6	595.3	421.8	407.9	396.5	385.6	378.7	373.7	375.7	376.7
45°	3077.5	2092.1	520.4	403.5	392.6	375.2	361.3	353.9	350.4	356.9	357.9
47.5°	3336.7	2200.2	474.8	390.1	378.2	355.4	340.5	333.6	334.6	344.0	346.5
50°	3670.8	2375.6	453.0	381.6	368.3	338.5	323.2	317.2	320.2	333.6	336.5
52.5°	4037.5	2628.4	455.5	379.2	361.8	326.1	309.8	302.8	307.8	320.2	322.7
55°	4460.8	2932.3	496.6	382.6	352.4	318.2	298.9	287.0	290.9	302.3	304.3
57.5°	4931.2	3280.2	579.4	381.6	340.5	310.8	287.5	269.6	272.6	279.5	281.5
60°	5420.9	3700.5	707.8	384.6	335.1	301.8	272.1	249.8	248.8	254.8	255.8
62.5°	6008.7	4186.7	854.5	386.6	338.5	290.4	251.8	230.0	227.0	228.5	229.5
65°	6614.4	4538.6	799.5	378.7	349.4	281.0	233.9	210.7	205.2	204.2	204.7
67.5°	6633.3	4161.5	560.6	362.8	353.9	276.1	220.6	194.3	185.4	181.9	181.4
70°	5948.8	3380.8	436.7	346.0	336.0	268.1	208.2	180.9	167.5	162.1	161.6
71°	5614.7	3112.2	413.9	337.5	322.7	260.2	202.7	175.0	161.1	155.1	154.1
72.5°	5090.8	2790.0	386.1	324.2	296.9	239.9	192.3	166.5	152.2	145.2	143.7
75°	3653.4	1824.5	331.6	289.0	245.8	191.3	168.5	149.7	137.3	128.9	127.9
77.5°	1407.6	726.1	250.8	240.4	188.3	149.7	138.8	129.4	120.4	112.0	111.5
80°	435.2	324.6	182.9	180.9	136.3	111.5	108.1	105.6	102.1	93.2	91.2
82.5°	232.5	186.4	125.9	117.0	89.2	74.3	78.3	79.3	79.8	70.4	69.4
85°	111.0	98.6	70.9	66.4	52.0	41.6	48.1	52.0	52.5	43.1	40.1
87.5°	53.0	51.5	33.2	25.3	19.3	13.9	16.9	20.8	22.8	16.4	14.4
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)