

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: P322511

Luminaire Tested: **GAN-SA7A-730-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21318 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

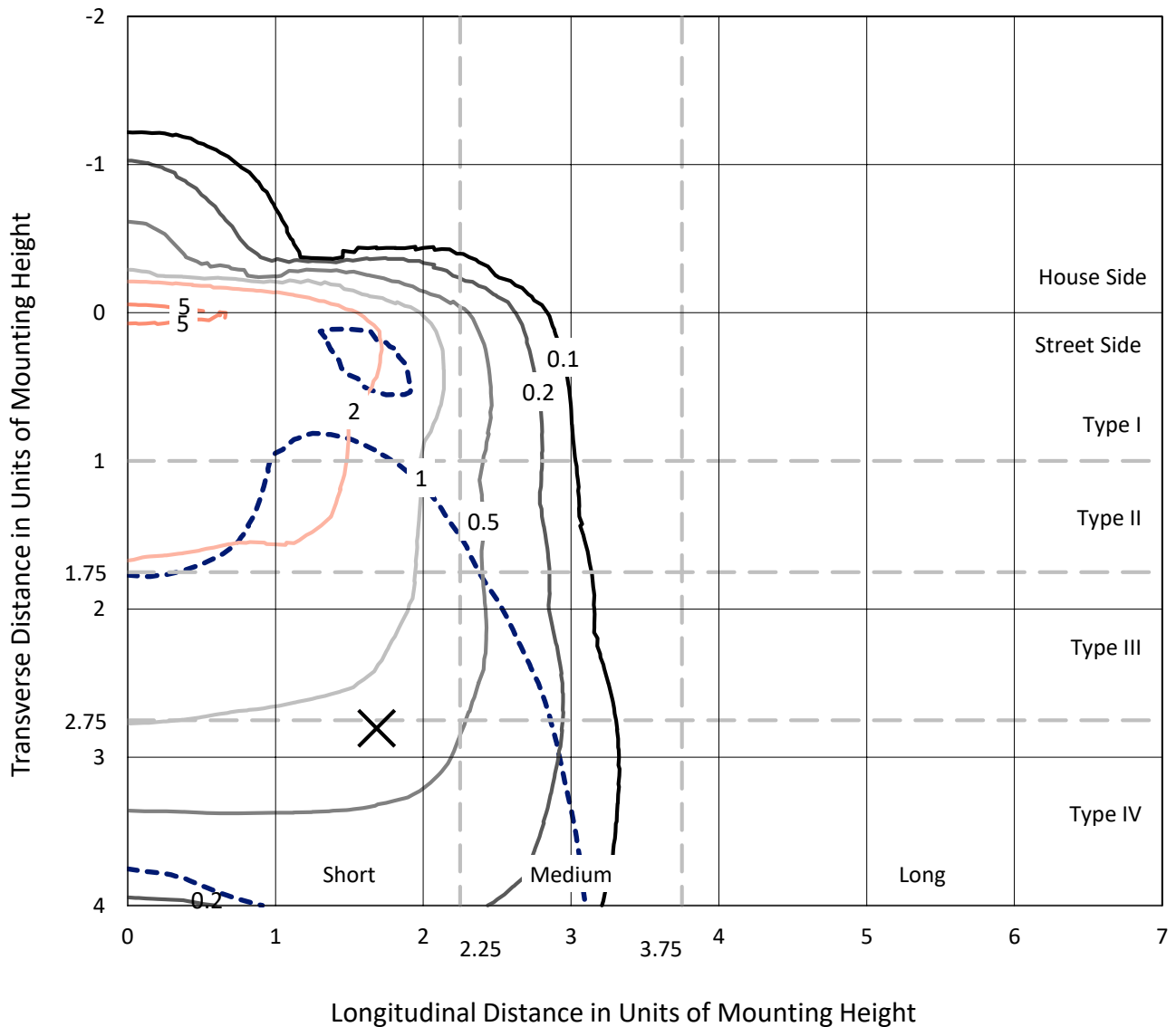
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

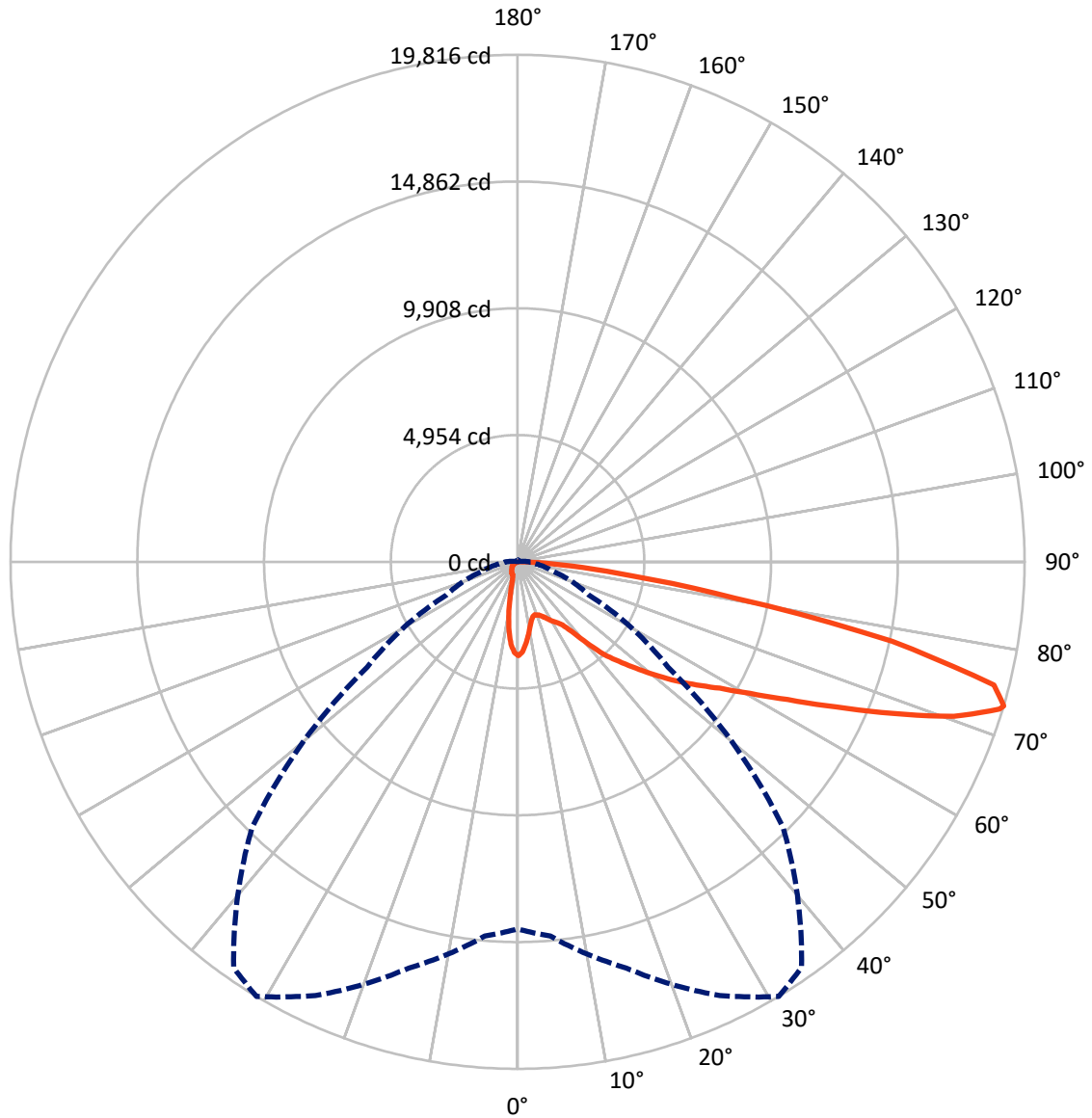
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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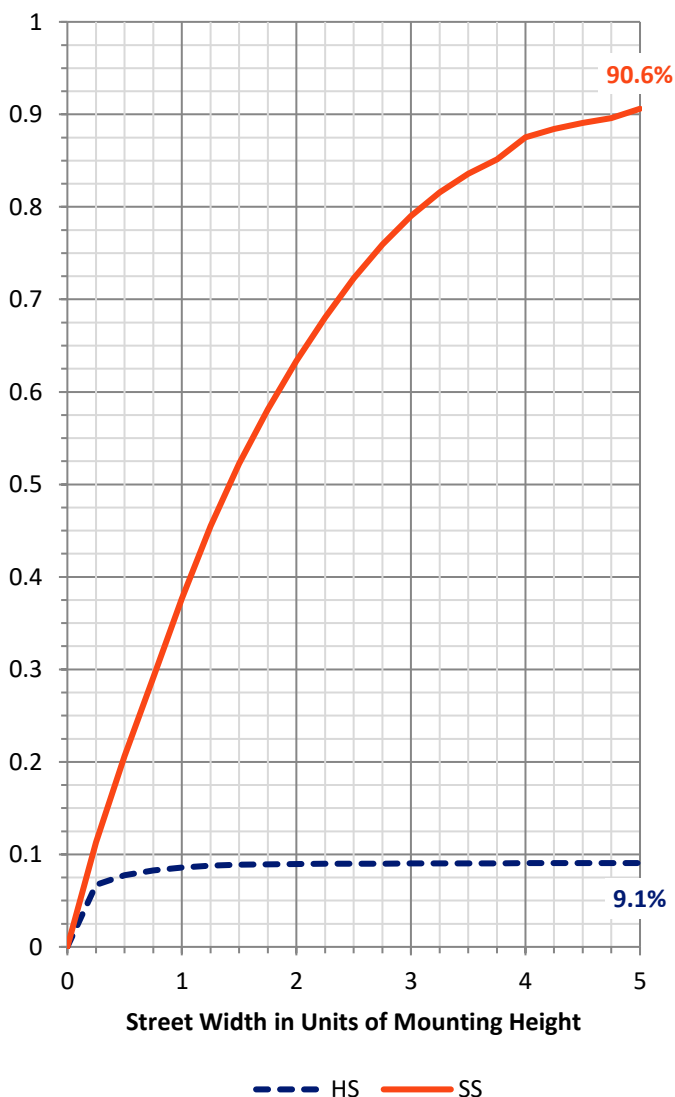
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1943.2	0.0	1943.2
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	19374.8	0.0	19374.8
	% Fixture	90.9	0.0	90.9
Total	Lumens	21318.0	0.0	21318.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.1	1.4
10°-20°	660.3	3.1
20°-30°	989.3	4.6
30°-40°	1574.0	7.4
40°-50°	2810.8	13.2
50°-60°	4361.6	20.5
60°-70°	5798.1	27.2
70°-80°	4361.4	20.5
80°-90°	458.3	2.1
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°	21318.0	100.0
0°-180°	21318.0	100.0

Coefficient of Utilization

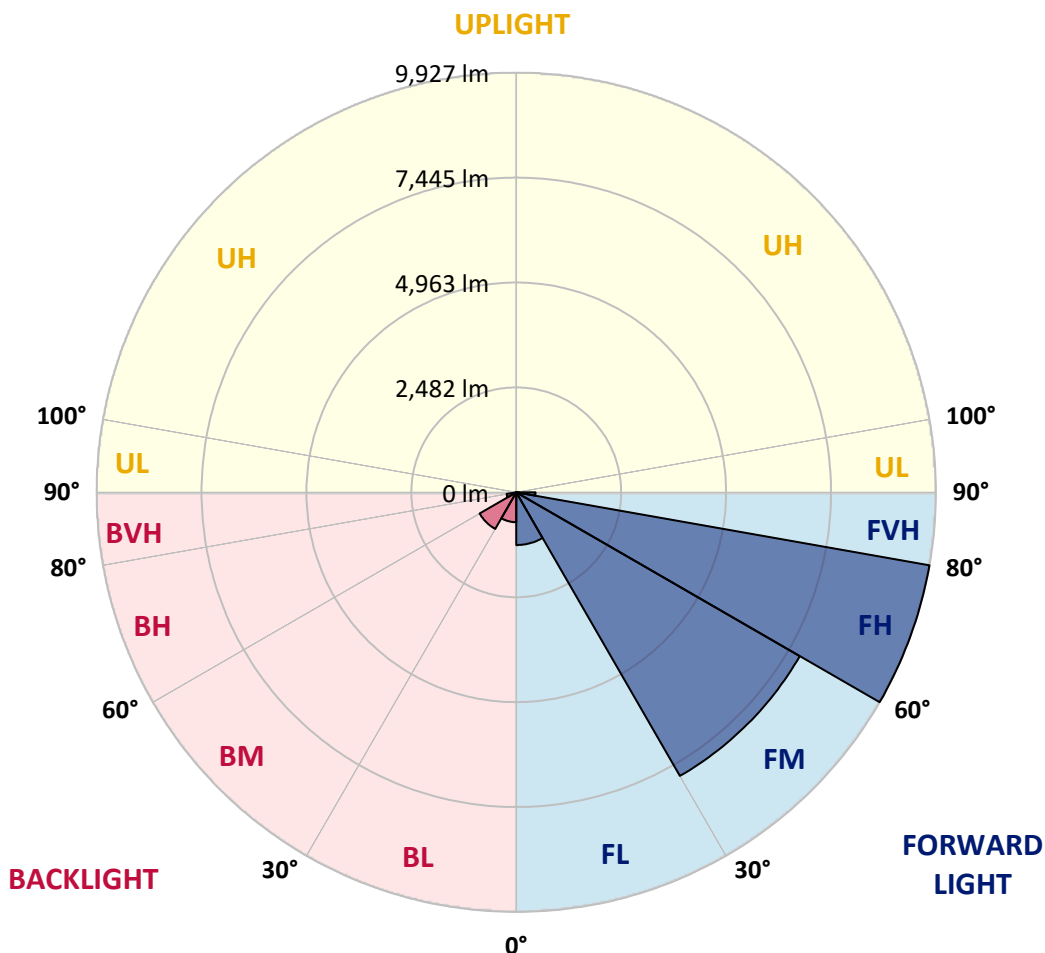


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1247.1	5.9			
FM (30°-60°)	7746.2	36.3			
FH (60°-80°)	9927.0	46.6			G4/12000
FVH (80°-90°)	454.4	2.1			G3/500
BL (0°-30°)	706.6	3.3	B2/1000		
BM (30°-60°)	1000.2	4.7	B2/2500		
BH (60°-80°)	232.5	1.1	B1/500		G1/500
BVH (80°-90°)	3.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	3667.8	3667.8	3667.8	3667.8	3667.8	3667.8	3667.8	3667.8	3667.8	3667.8	3667.8
2.5°	3475.9	3490.5	3506.1	3509.2	3535.3	3536.4	3573.9	3602.1	3630.3	3657.4	3666.8
5°	3119.1	3143.1	3171.3	3199.4	3254.7	3276.6	3368.4	3462.3	3552.0	3637.6	3679.3
7.5°	2738.3	2765.5	2805.1	2875.0	2936.5	2979.3	3124.3	3291.2	3458.1	3615.6	3706.4
10°	2391.0	2416.0	2457.7	2531.8	2626.7	2685.1	2880.2	3111.8	3356.9	3595.8	3747.1
12.5°	2169.8	2183.4	2206.3	2285.6	2371.1	2436.9	2666.4	2953.2	3273.5	3594.8	3812.8
15°	2129.1	2133.3	2114.5	2150.0	2216.7	2280.4	2513.0	2824.9	3209.9	3611.5	3898.3
17.5°	2193.8	2191.7	2129.1	2124.9	2178.2	2230.3	2437.9	2736.2	3165.0	3650.1	4008.9
20°	2291.9	2284.6	2176.1	2156.2	2212.6	2261.6	2432.7	2702.9	3148.3	3714.7	4143.5
22.5°	2422.3	2409.7	2239.7	2218.8	2279.3	2330.5	2497.4	2735.2	3162.9	3801.3	4300.0
25°	2583.9	2565.2	2349.2	2326.3	2387.8	2438.9	2613.2	2828.0	3206.7	3906.7	4498.2
27.5°	2766.5	2739.4	2524.5	2465.0	2534.9	2588.1	2767.5	2969.9	3275.6	4018.3	4741.2
30°	2938.6	2903.2	2709.1	2611.1	2696.6	2756.1	2934.5	3138.9	3386.1	4190.4	5074.0
32.5°	3111.8	3072.2	2873.9	2757.1	2834.3	2899.0	3106.6	3371.5	3593.7	4453.3	5516.3
35°	3510.3	3468.6	3225.5	3032.5	3031.5	3068.0	3347.6	3689.7	3868.1	4819.5	6044.2
37.5°	4181.0	4157.1	3925.5	3559.3	3461.3	3420.6	3676.2	4069.4	4262.4	5323.3	6639.8
40°	4915.4	4894.6	4634.8	4303.1	4153.9	4053.8	4147.7	4598.3	4819.5	5938.8	7248.0
42.5°	5744.8	5645.7	5182.5	5083.4	4949.9	4873.7	4789.2	5250.3	5503.8	6608.5	7850.9
45°	6497.9	6331.0	5730.2	5579.9	5549.7	5568.5	5615.4	6126.6	6273.7	7404.5	8451.8
47.5°	6946.5	6815.1	6354.0	6210.0	6201.7	6325.8	6680.5	7116.5	7040.4	8098.2	8980.7
50°	7373.2	7254.2	6871.4	6906.9	6945.5	7114.5	7889.5	8134.7	7740.4	8727.2	9465.8
52.5°	7718.5	7536.9	7336.7	7535.9	7725.8	7998.0	9137.2	9048.5	8236.9	9227.9	9881.0
55°	7917.7	7835.3	7932.3	8132.6	8489.4	8931.7	10314.9	9809.0	8599.9	9684.8	10157.4
57.5°	8647.9	8486.2	8679.2	8852.4	9317.6	9936.2	11323.7	10375.4	8861.8	9967.5	10221.0
60°	9531.5	9401.1	9514.8	9802.7	10430.7	11157.8	12266.7	10837.6	8998.4	10149.1	10056.2
62.5°	10937.7	10765.6	10694.6	11017.0	11849.4	12643.3	12982.3	11157.8	8968.2	10068.7	9490.8
65°	12821.7	12643.3	12326.2	12618.3	13677.1	14237.3	13782.4	11225.6	8759.5	9418.8	8061.7
67.5°	14751.5	14622.2	14351.0	14843.3	15798.9	15979.4	14628.5	11060.8	8087.7	7637.1	5695.7
70°	16026.3	15971.0	16147.3	17236.4	18088.7	18036.5	15404.6	10175.1	6303.9	4696.4	2817.6
72.5°	15107.3	15372.2	16674.1	18648.9	19689.9	19264.3	15006.1	7813.4	3603.1	1806.8	814.7
73°	14345.8	14684.8	16437.3	18702.1	19816.2	19349.9	14671.2	7171.8	3071.1	1426.0	617.6
75°	9980.1	10396.3	13608.2	17417.9	19225.7	18436.0	12229.1	4389.7	1422.9	632.2	249.3
77.5°	4845.6	5153.3	7493.1	12584.9	14951.8	14404.2	7613.1	1635.7	642.6	395.4	114.7
80°	1808.9	2011.2	3252.6	6405.1	8640.6	8867.0	3348.6	618.6	427.7	318.2	58.4
82.5°	473.6	527.8	1199.7	2856.2	4428.3	4634.8	1055.7	311.9	313.0	261.8	35.5
85°	151.3	173.2	374.5	1282.1	2086.4	1831.8	275.4	151.3	227.4	195.1	19.8
87.5°	18.8	24.0	118.9	301.5	460.0	255.6	42.8	44.9	97.0	108.5	11.5
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°	3667.8	3667.8	3667.8	3667.8	3667.8	3667.8	3667.8	3667.8	3667.8	3667.8	3667.8
2.5°	3676.2	3670.9	3672.0	3644.9	3627.1	3591.7	3555.1	3538.5	3520.7	3513.4	3520.7
5°	3694.9	3685.5	3658.4	3575.0	3486.3	3371.5	3264.1	3182.7	3080.5	3052.3	3081.5
7.5°	3724.1	3705.4	3626.1	3456.0	3258.9	3039.8	2793.6	2614.2	2467.1	2372.2	2406.6
10°	3766.9	3731.4	3571.8	3282.9	2930.3	2542.2	2192.8	1920.5	1727.5	1648.2	1645.1
12.5°	3838.9	3772.1	3505.1	3057.5	2528.7	2011.2	1553.3	1258.1	1101.6	1000.4	998.3
15°	3918.2	3820.1	3420.6	2787.4	2061.3	1440.6	1000.4	776.1	674.9	642.6	638.4
17.5°	4015.2	3875.4	3311.0	2454.6	1572.1	954.5	653.0	588.4	584.2	581.0	581.0
20°	4137.2	3941.1	3170.2	2073.8	1115.2	637.4	555.0	559.1	561.2	557.1	558.1
22.5°	4279.1	4007.9	3002.3	1664.9	754.2	533.1	531.0	536.2	538.3	536.2	537.2
25°	4443.9	4085.1	2797.8	1236.2	544.5	505.9	511.2	518.5	523.7	523.7	523.7
27.5°	4648.4	4179.0	2551.6	862.7	470.5	477.8	492.4	505.9	513.2	515.3	515.3
30°	4914.4	4295.8	2256.4	591.5	427.7	440.2	467.3	493.4	507.0	509.1	510.1
32.5°	5250.3	4427.2	1914.2	437.1	391.2	400.6	429.8	473.6	499.7	503.9	503.9
35°	5635.2	4579.5	1546.0	380.8	365.1	368.2	391.2	441.3	487.2	498.6	499.7
37.5°	6056.7	4729.8	1175.7	355.7	343.2	343.2	359.9	402.7	456.9	492.4	496.6
40°	6450.0	4820.5	824.1	335.9	323.4	323.4	338.0	369.3	420.4	473.6	485.1
42.5°	6813.0	4851.8	573.7	317.1	304.6	307.7	320.3	345.3	383.9	437.1	447.5
45°	7186.4	4846.6	418.3	295.2	285.8	295.2	304.6	323.4	351.6	381.8	383.9
47.5°	7468.1	4802.8	331.7	274.4	268.1	280.6	289.0	301.5	317.1	315.0	315.0
50°	7732.0	4696.4	267.1	246.2	250.4	265.0	269.1	273.3	274.4	254.5	252.4
52.5°	7932.3	4530.5	213.9	215.9	232.6	247.2	243.1	236.8	226.4	202.4	198.2
55°	7999.1	4211.3	168.0	178.4	206.5	225.3	209.7	196.1	176.3	156.5	152.3
57.5°	7878.1	3799.2	136.7	138.7	174.2	189.9	172.1	156.5	134.6	117.9	114.7
60°	7621.4	3341.3	112.7	104.3	134.6	148.1	136.7	121.0	101.2	88.7	87.6
62.5°	7112.4	2853.1	92.8	81.4	102.2	113.7	106.4	94.9	78.2	69.9	68.8
65°	6042.1	2282.5	75.1	65.7	79.3	88.7	82.4	74.1	61.5	55.3	54.2
67.5°	4217.6	1542.9	61.5	54.2	62.6	69.9	64.7	60.5	49.0	48.0	49.0
70°	2034.2	743.8	51.1	43.8	49.0	54.2	52.2	49.0	46.9	54.2	62.6
72.5°	583.1	249.3	40.7	36.5	39.6	42.8	44.9	43.8	51.1	65.7	76.2
73°	448.6	201.3	38.6	34.4	37.6	41.7	43.8	42.8	52.2	66.8	76.2
75°	191.9	97.0	29.2	28.2	31.3	36.5	38.6	38.6	52.2	67.8	73.0
77.5°	86.6	52.2	18.8	21.9	27.1	29.2	32.3	32.3	41.7	52.2	52.2
80°	49.0	28.2	14.6	16.7	19.8	19.8	19.8	17.7	18.8	20.9	22.9
82.5°	31.3	18.8	11.5	13.6	12.5	10.4	8.3	8.3	7.3	8.3	10.4
85°	17.7	10.4	10.4	8.3	5.2	4.2	5.2	4.2	1.0	0.0	1.0
87.5°	10.4	6.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)