

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: P321558

Luminaire Tested: **GAN-SA4B-730-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321558
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16146 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

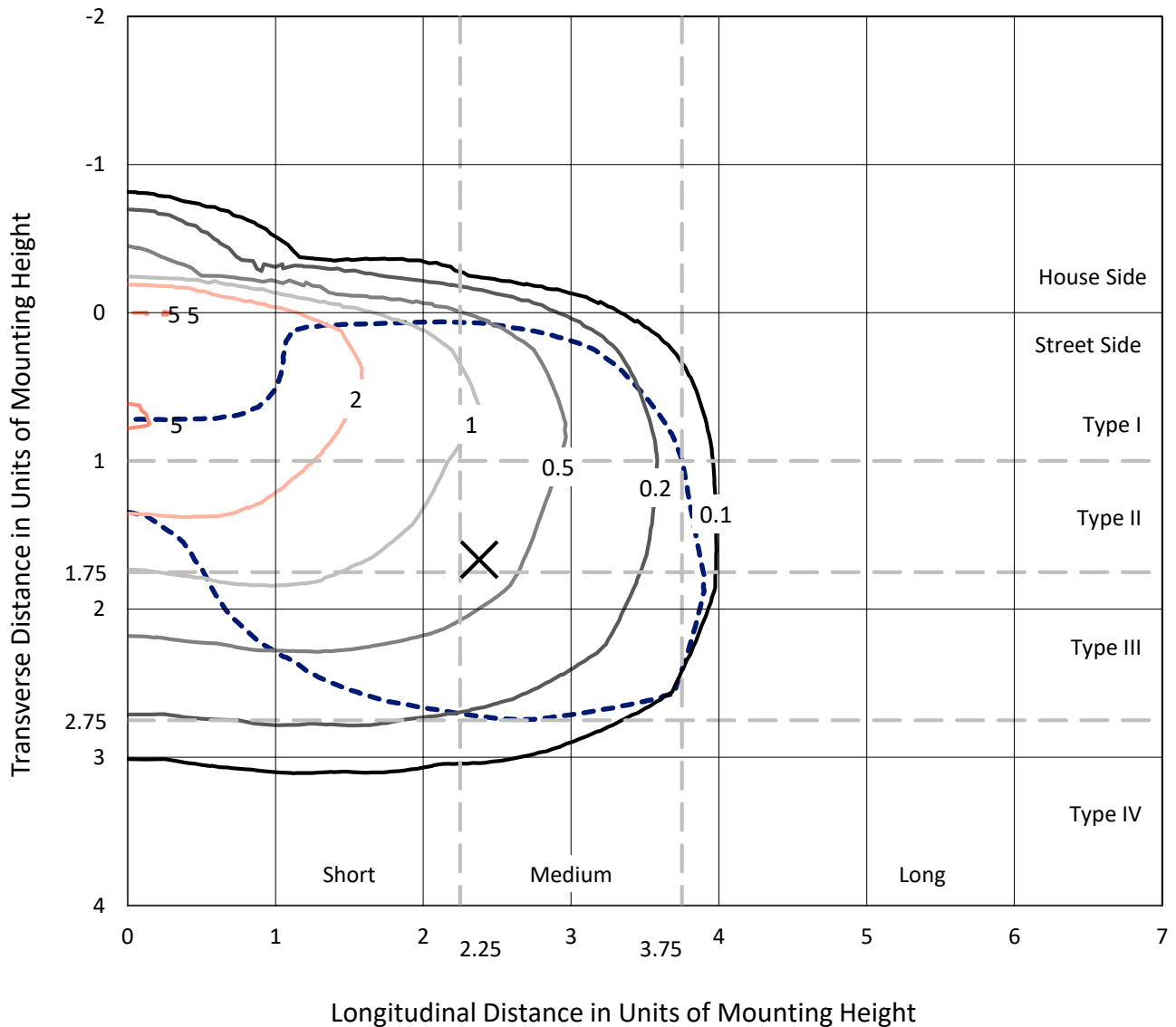
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

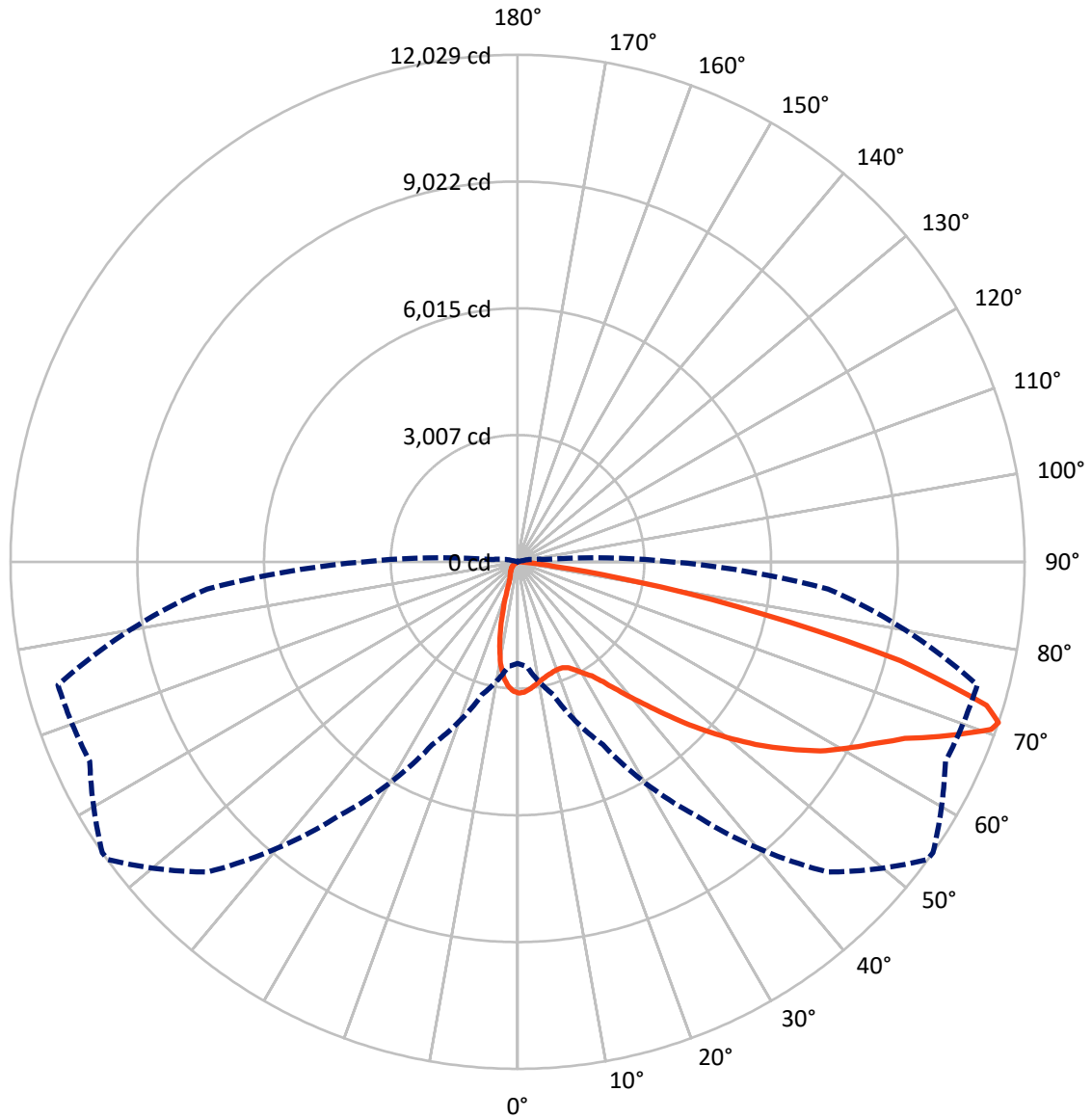
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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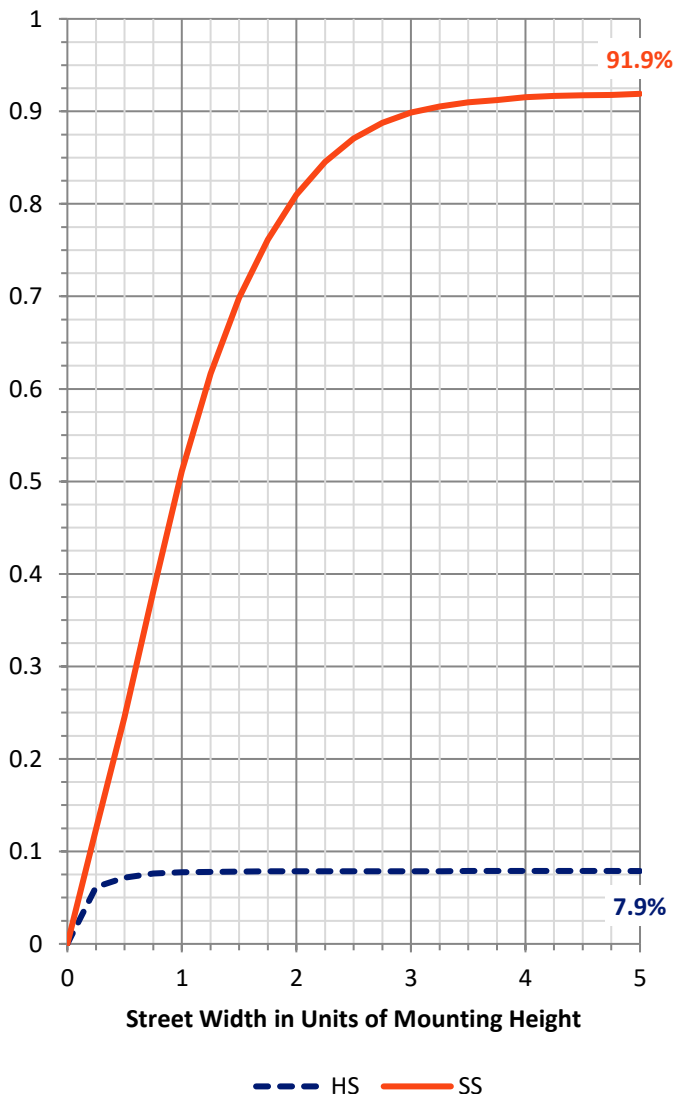
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1278.3	0.0	1278.3
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	14867.7	0.0	14867.7
	% Fixture	92.1	0.0	92.1
Total	Lumens	16146.0	0.0	16146.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.5	1.6
10°-20°	599.4	3.7
20°-30°	963.2	6.0
30°-40°	1636.5	10.1
40°-50°	2540.1	15.7
50°-60°	3415.1	21.2
60°-70°	4177.8	25.9
70°-80°	2442.7	15.1
80°-90°	105.6	0.7
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°	16146.0	100.0
0°-180°	16146.0	100.0

Coefficient of Utilization

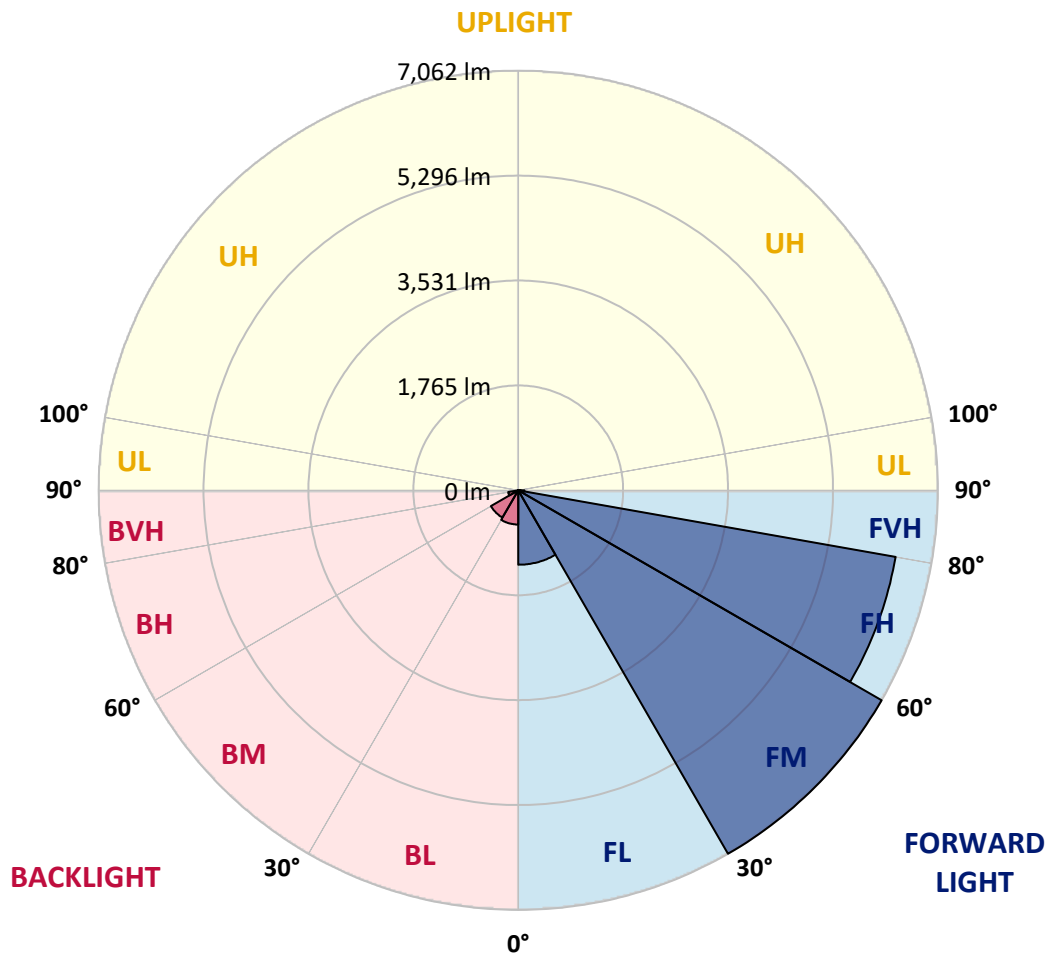


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1252.7	7.8			
FM (30°-60°)	7061.8	43.7			
FH (60°-80°)	6449.3	39.9			G3/7500
FVH (80°-90°)	103.9	0.6			G2/225
BL (0°-30°)	575.4	3.6	B2/1000		
BM (30°-60°)	530.0	3.3	B1/1000		
BH (60°-80°)	171.3	1.1	B1/500		G1/500
BVH (80°-90°)	1.7	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-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3113.8	3113.8	3113.8	3113.8	3113.8	3113.8	3113.8	3113.8	3113.8	3113.8	3113.8
2.5°	3022.5	3026.1	3039.1	3044.9	3058.7	3081.9	3093.5	3094.2	3113.1	3120.3	3126.1
5°	2808.6	2830.3	2852.1	2875.3	2917.3	2973.2	3028.3	3033.3	3094.2	3139.2	3163.1
7.5°	2624.4	2644.0	2670.1	2707.1	2766.5	2854.3	2946.3	2957.2	3072.5	3174.7	3228.4
10°	2435.2	2451.2	2488.9	2543.3	2625.2	2742.6	2866.6	2884.7	3052.9	3222.6	3316.8
12.5°	2233.0	2242.4	2288.1	2366.4	2486.7	2636.0	2799.2	2823.1	3040.6	3277.7	3421.2
15°	2079.3	2083.6	2127.1	2208.3	2346.1	2540.4	2747.0	2776.0	3043.5	3343.6	3535.0
17.5°	2040.1	2042.3	2065.5	2121.3	2243.1	2454.8	2705.6	2741.2	3052.2	3408.2	3649.6
20°	2198.9	2183.7	2159.7	2151.0	2203.2	2403.3	2681.0	2720.9	3063.8	3465.4	3752.5
22.5°	2634.6	2589.6	2490.3	2357.7	2277.2	2407.0	2687.5	2727.4	3100.8	3535.8	3871.4
25°	3281.3	3218.9	3050.0	2789.0	2538.2	2511.4	2741.9	2782.5	3172.5	3619.9	3985.2
27.5°	4017.1	3955.5	3748.9	3376.3	2948.5	2718.0	2866.6	2904.3	3279.1	3694.5	4072.2
30°	4721.8	4704.4	4460.8	4037.4	3464.7	3052.9	3027.5	3059.4	3358.1	3739.5	4141.1
32.5°	5319.2	5291.7	5095.9	4684.1	4055.6	3455.3	3216.8	3226.2	3417.6	3797.5	4231.0
35°	5873.1	5839.0	5667.2	5277.9	4661.7	3946.8	3508.2	3494.4	3547.4	3914.2	4361.5
37.5°	6356.7	6387.8	6197.2	5826.7	5205.4	4457.9	3901.1	3859.8	3750.4	4104.1	4550.7
40°	6761.2	6761.2	6661.9	6353.1	5792.6	4986.5	4345.6	4291.2	4055.6	4397.0	4790.7
42.5°	6906.9	6938.1	6975.1	6800.4	6318.3	5536.0	4840.7	4784.2	4485.5	4812.5	5093.8
45°	6915.6	6964.9	7154.2	7153.4	6793.1	6081.9	5399.0	5372.1	5036.5	5346.0	5469.3
47.5°	6793.1	6854.7	7166.5	7343.4	7169.4	6590.1	6009.4	5976.1	5683.9	6000.0	5862.2
50°	6603.9	6672.0	7034.5	7418.1	7425.3	7032.4	6652.5	6602.4	6396.5	6747.4	6268.2
52.5°	6265.3	6397.3	6916.4	7435.5	7593.5	7414.4	7264.4	7242.6	7194.0	7467.4	6591.6
55°	5541.1	5687.5	6619.8	7441.3	7749.4	7753.0	7837.8	7843.6	7941.5	8140.1	6832.3
57.5°	5198.9	5281.5	6102.2	7468.8	7980.6	8137.2	8422.2	8467.1	8618.6	8778.9	7107.0
60°	4983.6	5081.4	5847.0	7431.1	8343.9	8641.1	8963.7	8978.9	9141.3	9437.9	7479.0
62.5°	4811.7	4908.2	5686.1	7286.1	8752.0	9247.2	9493.0	9494.4	9616.2	10223.0	7901.6
65°	4387.6	4468.8	5360.5	7123.0	9021.7	9846.8	10107.8	10098.3	10197.7	11051.0	8392.4
67.5°	3774.3	3836.6	4695.7	6504.6	8920.2	10391.9	11035.7	11004.6	10884.2	11766.5	8585.3
70°	2918.1	2940.5	3701.1	5420.7	7969.0	10601.5	11932.5	11916.6	11305.4	11638.2	7878.4
71°	2412.0	2486.0	3261.7	4784.2	7331.8	10407.9	12019.5	12029.0	11199.6	11288.8	7392.0
72.5°	1400.7	1463.7	2364.2	3674.2	6224.7	9600.3	11568.6	11636.7	10705.1	10268.0	6313.9
75°	300.1	321.2	876.5	1778.4	3424.1	6728.6	9131.2	9374.1	8725.2	6985.2	3805.5
77.5°	208.8	225.5	375.5	806.9	1131.7	3324.8	5672.3	5946.3	5212.6	2625.2	1218.0
80°	165.3	184.1	292.9	398.7	305.9	1072.3	2657.1	2824.5	1738.5	585.8	205.2
82.5°	92.1	109.5	228.4	215.3	117.4	203.7	743.8	841.0	348.0	118.2	48.6
85°	26.8	32.6	147.2	156.6	50.0	39.1	126.9	157.3	66.0	31.2	21.7
87.5°	0.0	0.0	71.0	60.2	14.5	5.8	11.6	13.0	13.0	13.0	14.5
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°	3113.8	3113.8	3113.8	3113.8	3113.8	3113.8	3113.8	3113.8	3113.8	3113.8	3113.8
2.5°	3126.1	3131.2	3113.1	3089.2	3063.8	3032.6	3000.0	2974.6	2973.9	2961.6	2949.2
5°	3164.6	3161.7	3111.6	3035.5	2945.6	2852.1	2762.9	2662.1	2628.8	2587.5	2573.7
7.5°	3235.6	3215.3	3109.5	2942.7	2745.5	2549.8	2347.5	2143.8	2056.8	1978.5	1964.7
10°	3324.8	3286.4	3095.7	2803.5	2441.8	2080.7	1775.5	1498.5	1376.7	1283.2	1278.9
12.5°	3417.6	3358.9	3057.3	2593.3	2043.7	1536.2	1184.6	912.0	810.5	745.3	751.1
15°	3514.7	3427.0	2974.6	2309.8	1590.6	1042.5	727.9	567.7	527.1	510.4	514.7
17.5°	3614.1	3474.1	2859.3	1968.3	1143.3	672.8	503.9	458.9	458.9	462.5	464.0
20°	3700.3	3499.5	2689.7	1585.5	775.0	490.1	440.8	434.3	437.9	443.7	444.4
22.5°	3785.9	3501.0	2468.6	1197.7	542.3	429.2	419.8	416.9	419.0	425.6	426.3
25°	3855.5	3483.6	2191.6	851.9	432.8	404.5	400.2	398.7	400.2	408.2	408.2
27.5°	3883.7	3420.5	1853.8	598.8	387.9	377.0	375.5	377.0	379.2	385.0	385.7
30°	3886.6	3310.3	1485.5	433.5	351.6	340.0	342.9	348.0	345.8	344.4	345.8
32.5°	3893.9	3182.7	1126.6	356.7	321.2	303.0	299.4	299.4	290.7	285.6	282.7
35°	3917.8	3032.6	817.1	320.4	290.0	269.0	255.2	239.2	222.6	213.9	211.7
37.5°	3955.5	2875.3	585.1	296.5	262.4	238.5	212.4	184.1	160.2	153.7	153.7
40°	4024.4	2712.9	432.8	277.7	240.7	211.0	171.8	134.8	113.1	109.5	109.5
42.5°	4133.1	2541.8	345.1	261.0	221.8	182.7	131.2	97.9	81.9	79.7	79.0
45°	4246.2	2353.3	301.6	245.0	201.5	150.1	97.1	72.5	63.1	60.9	60.9
47.5°	4359.3	2152.5	280.6	229.8	182.0	116.7	72.5	57.3	52.9	52.9	53.6
50°	4455.0	1943.0	265.3	213.1	156.6	88.4	57.3	48.6	47.1	50.0	50.7
52.5°	4479.0	1737.1	246.5	192.1	125.4	67.4	47.1	42.8	42.8	42.8	42.8
55°	4464.5	1577.6	221.8	166.0	92.8	53.6	40.6	37.7	37.0	37.0	37.0
57.5°	4513.8	1483.3	177.6	129.0	66.7	43.5	35.5	33.3	31.9	31.2	31.2
60°	4613.1	1421.7	126.9	92.8	50.0	36.2	30.4	28.3	26.1	24.6	24.6
62.5°	4745.0	1368.0	94.2	68.9	38.4	29.0	25.4	23.2	20.3	18.8	18.8
65°	4846.5	1272.4	71.8	51.5	29.0	23.2	19.6	18.8	14.5	13.0	12.3
67.5°	4691.4	1062.1	58.0	37.7	21.7	18.1	15.2	14.5	8.7	7.2	7.2
70°	4023.7	739.5	46.4	27.5	15.9	14.5	12.3	9.4	6.5	5.8	5.8
71°	3648.9	617.7	42.0	23.2	13.8	13.8	11.6	8.0	5.8	5.1	5.1
72.5°	3031.2	438.6	35.5	18.1	12.3	14.5	12.3	7.2	5.8	5.1	4.3
75°	1759.5	183.4	24.6	12.3	9.4	17.4	15.9	6.5	4.3	3.6	3.6
77.5°	529.2	67.4	13.8	8.0	7.2	15.2	18.1	5.8	2.2	0.7	0.7
80°	96.4	29.0	8.7	5.1	5.1	9.4	13.8	2.9	0.0	0.0	0.0
82.5°	34.1	14.5	5.1	2.9	2.2	4.3	6.5	0.0	0.0	0.0	0.0
85°	19.6	10.1	2.9	1.4	0.0	0.7	1.4	0.0	0.0	0.0	0.0
87.5°	13.0	2.9	0.0	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)