

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: P322231

Luminaire Tested: **GAN-SA7A-740-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24021 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - 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

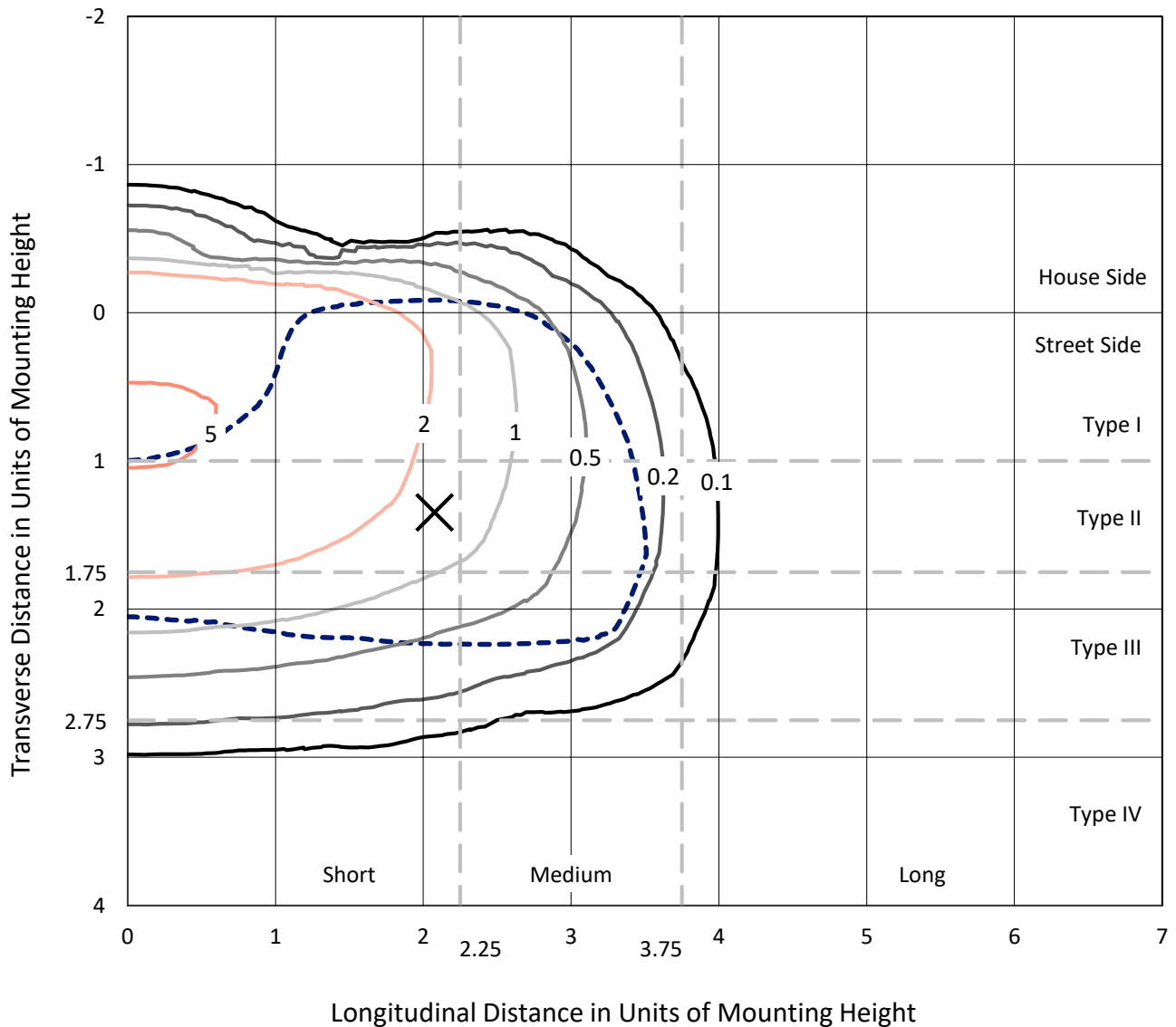




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Iso-Footcandle Lines of Horizontal Illumination

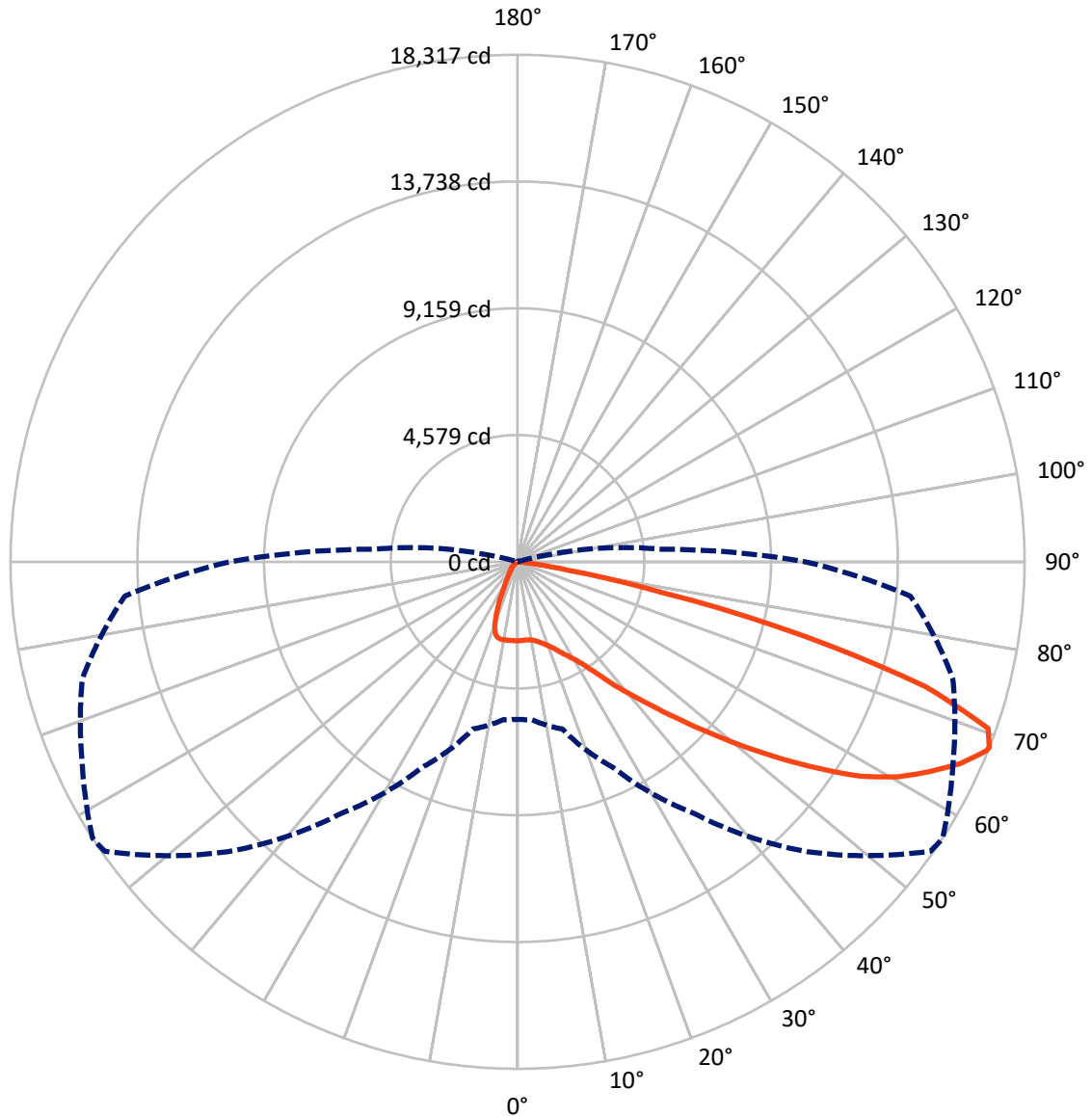
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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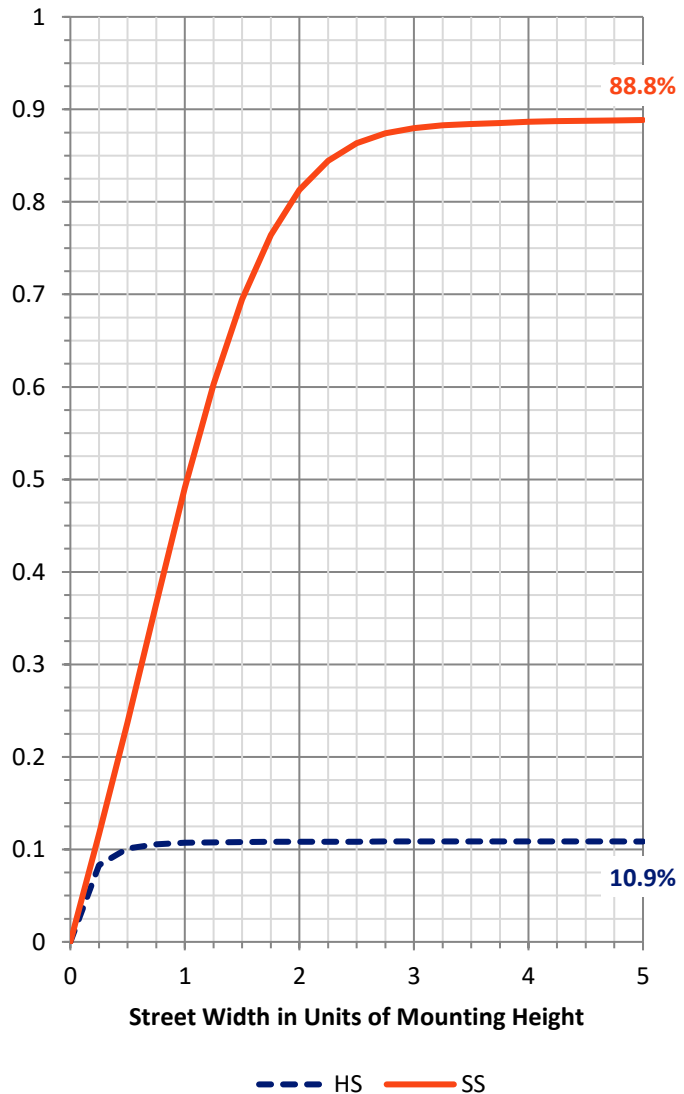
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2634.0	0.0	2634.0
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	21387.0	0.0	21387.0
	% Fixture	89.0	0.0	89.0
Total	Lumens	24021.0	0.0	24021.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.1	1.1
10°-20°	740.2	3.1
20°-30°	1276.9	5.3
30°-40°	2203.9	9.2
40°-50°	3769.9	15.7
50°-60°	6031.5	25.1
60°-70°	6968.7	29.0
70°-80°	2662.8	11.1
80°-90°	99.8	0.4
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°	24021.0	100.0
0°-180°	24021.0	100.0

Coefficient of Utilization

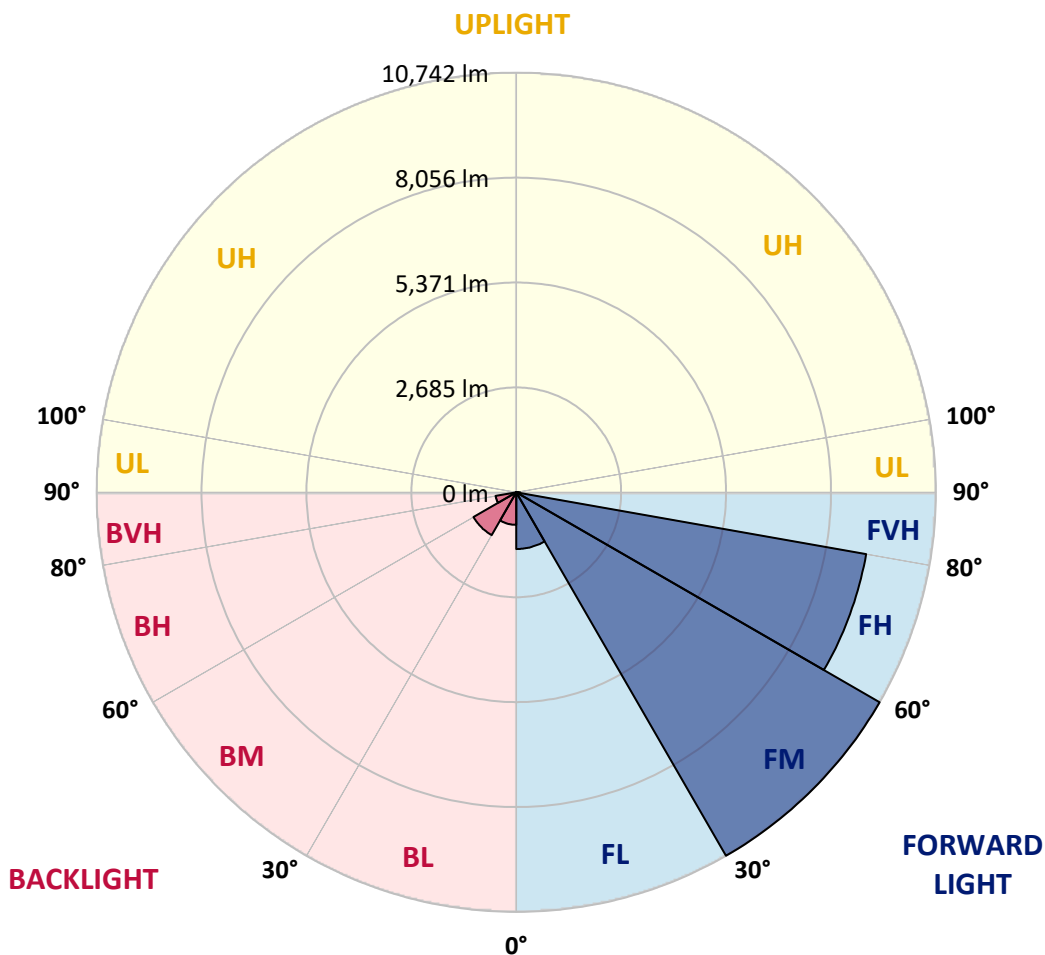


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1451.8	6.0			
FM (30°-60°)	10742.0	44.7			
FH (60°-80°)	9095.1	37.9			G4/12000
FVH (80°-90°)	98.0	0.4			G1/100
BL (0°-30°)	832.4	3.5	B2/1000		
BM (30°-60°)	1263.3	5.3	B2/2500		
BH (60°-80°)	536.4	2.2	B2/1000		G2/1000
BVH (80°-90°)	1.8	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3
2.5°	2787.3	2799.8	2808.9	2814.6	2821.4	2836.2	2840.7	2847.5	2850.9	2850.9	2858.9
5°	2677.1	2690.8	2710.1	2726.0	2757.8	2798.7	2828.2	2839.6	2860.0	2878.2	2888.4
7.5°	2574.9	2590.8	2613.5	2651.0	2705.5	2771.4	2832.7	2848.6	2888.4	2927.0	2946.3
10°	2509.0	2521.5	2551.1	2604.4	2676.0	2768.0	2854.3	2873.6	2941.8	3006.5	3042.9
12.5°	2486.3	2497.7	2528.3	2588.5	2677.1	2785.0	2904.3	2932.7	3032.7	3126.9	3178.0
15°	2519.3	2521.5	2554.5	2611.3	2698.7	2827.1	2987.2	3021.3	3147.4	3270.0	3333.6
17.5°	2646.5	2636.2	2653.3	2678.3	2747.6	2882.7	3074.7	3125.8	3293.9	3438.1	3498.3
20°	2964.5	2964.5	2925.9	2857.7	2858.9	2969.0	3192.8	3250.7	3456.3	3623.3	3677.8
22.5°	3508.6	3498.3	3421.1	3254.1	3100.8	3117.8	3337.1	3412.0	3651.7	3830.0	3848.2
25°	4162.8	4150.3	4031.0	3795.9	3530.1	3358.6	3532.4	3618.7	3884.5	4042.4	4004.9
27.5°	4855.7	4845.4	4727.3	4435.4	4057.2	3742.5	3765.3	3847.0	4121.9	4277.5	4158.3
30°	5526.9	5530.3	5413.3	5113.5	4685.3	4232.1	4060.6	4108.3	4352.5	4510.4	4340.0
32.5°	6165.3	6169.8	6068.7	5733.6	5333.8	4801.1	4469.5	4457.0	4620.5	4776.1	4580.8
35°	6734.3	6745.7	6676.4	6416.3	5992.6	5434.9	4999.9	4970.4	5001.0	5177.1	4949.9
37.5°	7282.9	7289.7	7237.5	7018.3	6663.9	6131.2	5670.0	5628.0	5562.1	5697.3	5437.2
40°	7883.8	7866.7	7806.5	7607.8	7303.4	6900.1	6390.2	6317.5	6202.7	6323.1	6077.8
42.5°	8442.6	8423.3	8433.5	8208.6	7951.9	7690.7	7229.5	7104.6	7037.6	7176.1	6863.8
45°	9141.1	9130.9	9165.0	8969.6	8761.8	8572.1	8191.6	8055.3	8025.7	8188.2	7814.5
47.5°	9830.6	9855.6	9961.2	9878.3	9794.2	9627.3	9210.4	9149.1	9167.2	9363.7	8817.4
50°	10405.3	10434.8	10724.5	10819.9	10941.4	10843.7	10425.7	10388.3	10459.8	10637.0	9896.4
52.5°	10821.0	10881.2	11241.3	11680.8	12123.8	12189.7	11772.8	11738.8	11835.3	11862.6	10730.1
55°	11109.5	11162.9	11570.6	12374.8	13276.7	13560.6	13301.6	13169.9	13151.7	12882.5	11607.0
57.5°	11160.6	11154.9	11741.0	12823.5	14180.8	14913.4	14749.8	14620.3	14247.8	13825.3	12612.2
60°	10872.1	10905.1	11585.4	12979.1	14748.7	15936.8	15949.3	15781.2	15200.7	14741.9	13586.7
62.5°	9983.9	10117.9	10805.1	12571.3	14741.9	16349.1	16828.4	16700.0	16006.0	15492.7	14574.9
65°	8543.7	8591.4	9246.8	11174.2	13745.8	16176.4	17620.1	17572.3	16731.8	16221.9	15082.6
67.5°	6239.1	6135.7	6824.0	8799.2	11637.7	15170.1	18188.0	18248.2	17291.8	16371.8	14542.0
68°	5693.9	5724.6	6260.7	8212.0	11085.7	14814.6	18225.4	18317.4	17347.5	16274.1	14246.7
70°	3393.8	3452.9	3931.1	5654.1	8433.5	12803.0	17821.1	18031.2	17015.8	15266.6	12322.6
72.5°	866.6	937.1	1389.1	2530.6	4817.0	9020.7	15044.0	15399.5	14773.7	12385.0	8318.8
75°	356.6	374.8	496.4	833.7	1794.6	4064.0	9915.8	10676.8	10241.7	7414.7	3759.6
77.5°	246.5	259.0	319.2	462.3	776.9	1377.8	4861.3	5411.1	4875.0	2530.6	820.1
80°	177.2	187.4	228.3	307.8	446.4	491.8	1584.5	1832.1	1455.0	555.4	203.3
82.5°	105.6	113.6	170.4	219.2	271.5	235.1	394.1	447.5	421.4	276.0	90.9
85°	52.2	61.3	114.7	156.7	146.5	98.8	120.4	134.0	165.8	168.1	48.8
87.5°	3.4	6.8	67.0	94.3	40.9	22.7	35.2	43.2	59.1	82.9	20.4
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°	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3
2.5°	2862.3	2863.4	2855.5	2852.1	2854.3	2840.7	2835.0	2837.3	2837.3	2840.7	2835.0
5°	2890.7	2890.7	2877.0	2858.9	2848.6	2822.5	2805.5	2800.9	2797.5	2795.3	2790.7
7.5°	2952.0	2945.2	2921.3	2881.6	2847.5	2790.7	2747.6	2724.8	2713.5	2708.9	2705.5
10°	3050.8	3038.3	2998.6	2924.7	2846.4	2745.3	2651.0	2584.0	2528.3	2505.6	2492.0
12.5°	3183.7	3165.5	3098.5	2975.9	2838.4	2652.2	2447.7	2251.2	2068.3	1993.4	1955.9
15°	3337.1	3310.9	3205.3	3019.0	2791.9	2442.0	1997.9	1653.8	1400.5	1305.1	1264.2
17.5°	3492.7	3458.6	3298.4	3046.3	2652.2	2007.0	1401.6	1058.6	889.4	843.9	828.0
20°	3649.4	3599.4	3379.1	3025.8	2336.4	1447.0	924.6	773.5	724.7	711.0	706.5
22.5°	3798.2	3721.0	3451.8	2946.3	1850.3	971.1	731.5	683.8	667.9	659.9	657.6
25°	3927.7	3819.8	3515.4	2701.0	1309.6	733.7	658.8	642.9	622.4	607.7	608.8
27.5°	4049.2	3918.6	3554.0	2296.6	873.4	627.0	609.9	588.4	550.9	529.3	529.3
30°	4195.7	4050.4	3582.4	1767.3	642.9	554.3	540.7	507.7	456.6	428.2	428.2
32.5°	4416.1	4250.3	3564.2	1240.3	532.7	487.3	455.5	410.0	354.4	327.1	326.0
35°	4753.4	4559.2	3434.7	813.3	470.2	423.7	372.6	316.9	268.1	245.3	244.2
37.5°	5207.8	4972.6	3144.0	581.5	421.4	364.6	303.3	241.9	205.6	190.8	189.7
40°	5797.3	5453.1	2728.3	471.4	376.0	307.8	234.0	187.4	162.4	151.1	152.2
42.5°	6504.9	5967.6	2229.6	406.6	331.7	253.3	182.9	147.7	131.8	123.8	121.5
45°	7290.9	6475.3	1707.1	362.3	287.4	204.4	143.1	117.0	104.5	100.0	100.0
47.5°	8155.2	6969.4	1249.4	323.7	239.7	157.9	114.7	95.4	85.2	81.8	80.6
50°	8940.1	7312.4	900.7	282.8	196.5	124.9	93.1	79.5	72.7	68.1	68.1
52.5°	9594.3	7420.3	663.3	238.5	159.0	100.0	77.2	68.1	61.3	57.9	57.9
55°	10170.2	7376.0	492.9	196.5	128.3	81.8	65.9	57.9	52.2	48.8	48.8
57.5°	10722.2	7232.9	368.0	160.2	103.4	65.9	55.7	48.8	43.2	40.9	40.9
60°	11173.1	6994.4	273.7	129.5	82.9	53.4	46.6	39.8	35.2	31.8	31.8
62.5°	11538.8	6730.9	201.0	106.8	65.9	42.0	36.3	32.9	26.1	22.7	22.7
65°	11541.1	6293.6	151.1	88.6	51.1	32.9	27.3	26.1	17.0	13.6	12.5
67.5°	10706.3	5425.8	115.9	76.1	39.8	25.0	20.4	21.6	9.1	5.7	4.5
68°	10403.0	5205.5	109.0	75.0	37.5	23.9	19.3	21.6	8.0	4.5	3.4
70°	8770.8	4141.2	87.5	72.7	32.9	18.2	15.9	21.6	6.8	3.4	2.3
72.5°	5609.8	2403.4	64.7	57.9	25.0	13.6	10.2	19.3	6.8	2.3	1.1
75°	2387.5	745.1	44.3	40.9	14.8	10.2	6.8	12.5	4.5	1.1	0.0
77.5°	503.2	168.1	26.1	25.0	10.2	6.8	4.5	3.4	1.1	0.0	0.0
80°	129.5	48.8	13.6	12.5	5.7	3.4	2.3	0.0	0.0	0.0	0.0
82.5°	40.9	19.3	8.0	5.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.4	11.4	4.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.4	3.4	1.1	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)