

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: P322209

Luminaire Tested: **GAN-SA5C-730-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322209
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-SA5C-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA 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: 23461 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

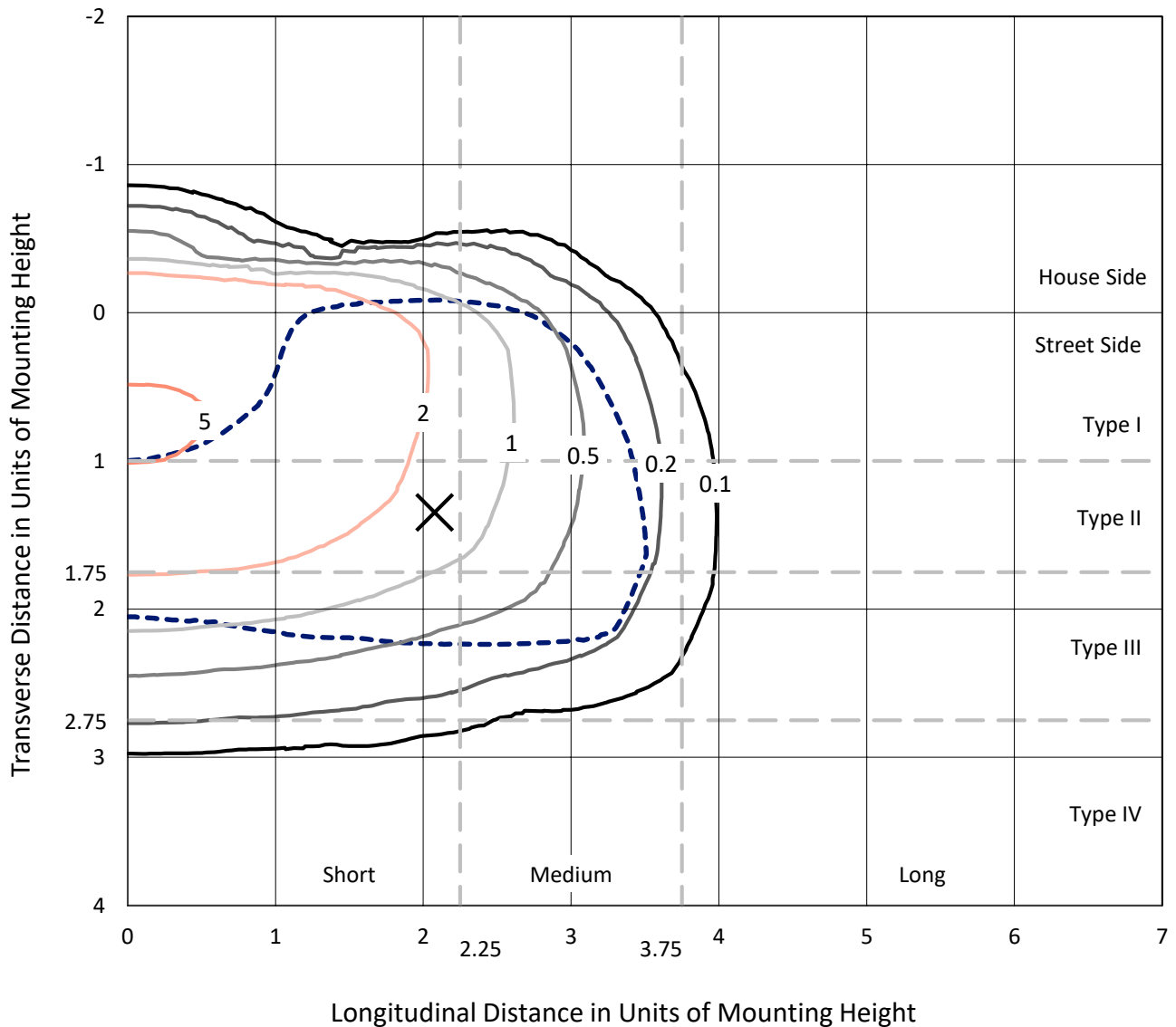
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322209
 CATALOG NUMBER: GAN-SA5C-730-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

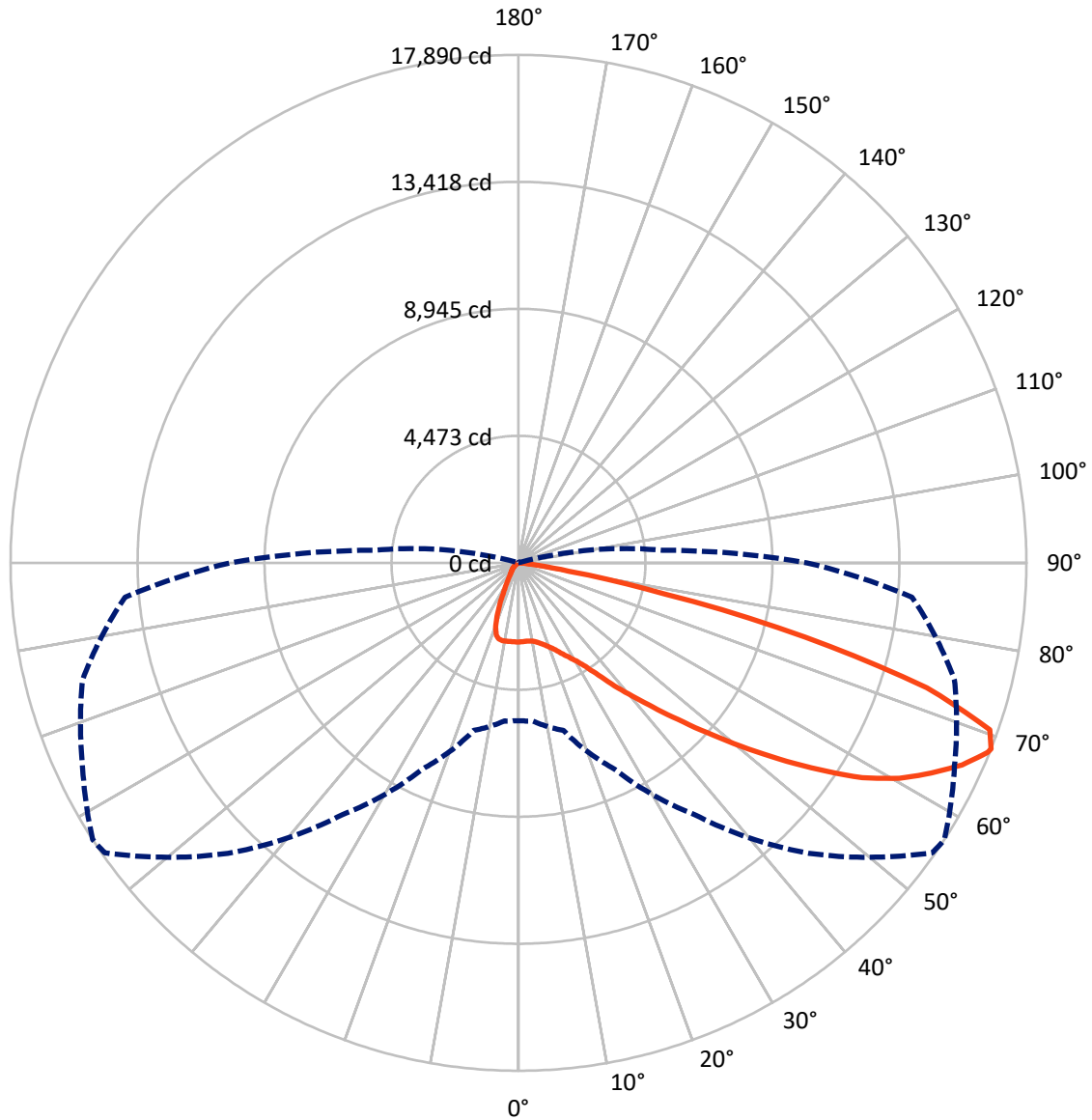
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - N/A

REPORT NUMBER: P322209
CATALOG NUMBER: GAN-SA5C-730-U-T3-HSS

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GAN-SA5C-730-U-T3-HSS

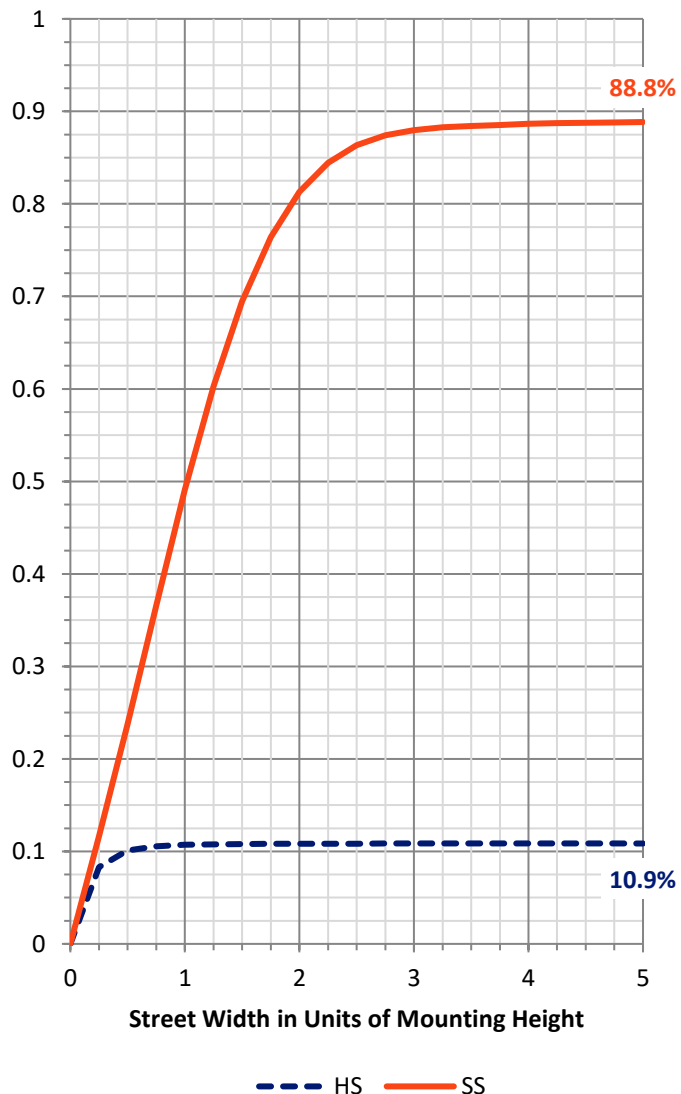
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2572.6	0.0	2572.6
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	20888.4	0.0	20888.4
	% Fixture	89.0	0.0	89.0
Total	Lumens	23461.0	0.0	23461.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.9	1.1
10°-20°	723.0	3.1
20°-30°	1247.2	5.3
30°-40°	2152.6	9.2
40°-50°	3682.0	15.7
50°-60°	5890.9	25.1
60°-70°	6806.3	29.0
70°-80°	2600.8	11.1
80°-90°	97.5	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°	23461.0	100.0
0°-180°	23461.0	100.0

Coefficient of Utilization

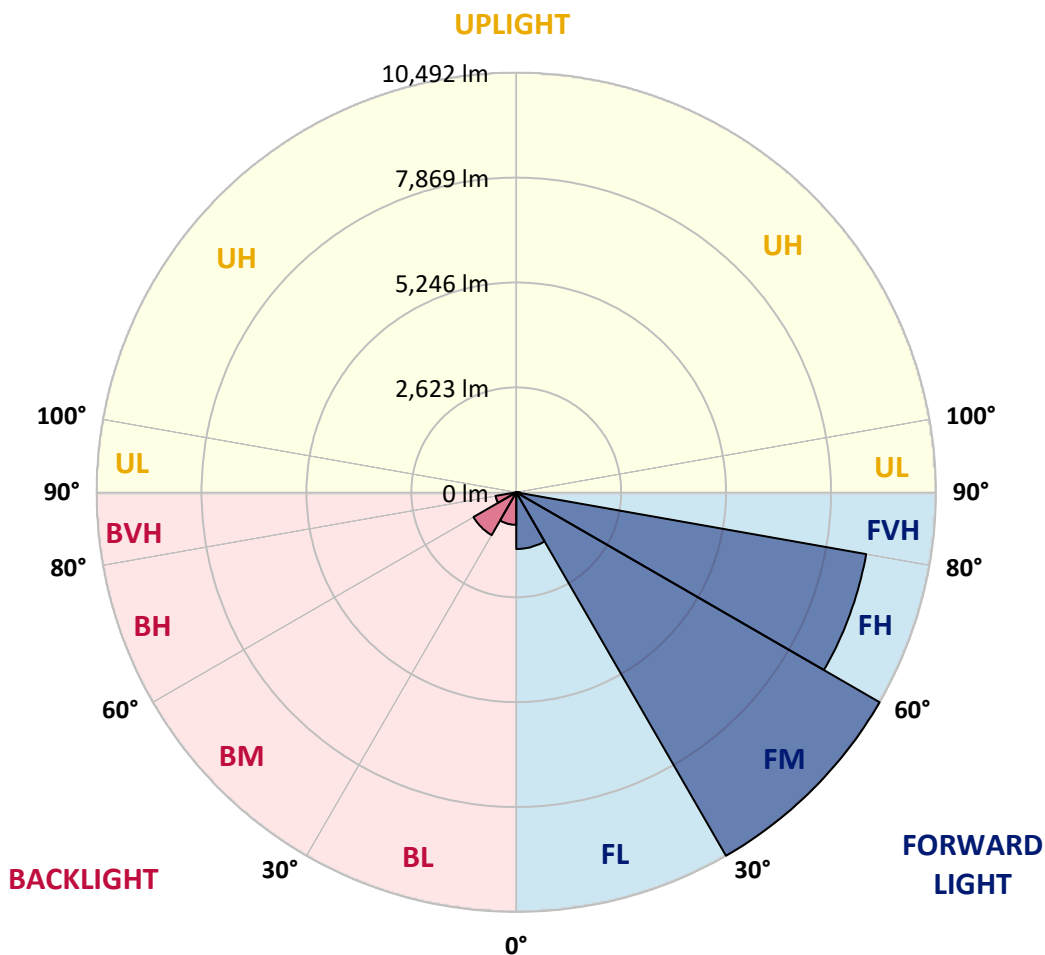


REPORT NUMBER: P322209
 CATALOG NUMBER: GAN-SA5C-730-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1418.0	6.0			
FM (30°-60°)	10491.6	44.7			
FH (60°-80°)	8883.1	37.9			G4/12000
FVH (80°-90°)	95.7	0.4			G1/100
BL (0°-30°)	813.0	3.5	B2/1000		
BM (30°-60°)	1233.9	5.3	B2/2500		
BH (60°-80°)	523.9	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°	2787.8	2787.8	2787.8	2787.8	2787.8	2787.8	2787.8	2787.8	2787.8	2787.8	2787.8
2.5°	2722.3	2734.5	2743.4	2749.0	2755.6	2770.0	2774.5	2781.1	2784.5	2784.5	2792.2
5°	2614.7	2628.0	2646.9	2662.4	2693.5	2733.4	2762.3	2773.4	2793.3	2811.1	2821.1
7.5°	2514.9	2530.4	2552.6	2589.2	2642.5	2706.8	2766.7	2782.2	2821.1	2858.8	2877.6
10°	2450.5	2462.7	2491.6	2543.7	2613.6	2703.5	2787.8	2806.6	2873.2	2936.4	2971.9
12.5°	2428.4	2439.5	2469.4	2528.2	2614.7	2720.1	2836.6	2864.3	2962.0	3054.0	3103.9
15°	2460.5	2462.7	2494.9	2550.4	2635.8	2761.2	2917.6	2950.9	3074.0	3193.8	3255.9
17.5°	2584.8	2574.8	2591.4	2615.8	2683.5	2815.5	3003.0	3052.9	3217.1	3358.0	3416.8
20°	2895.4	2895.4	2857.7	2791.1	2792.2	2899.8	3118.4	3174.9	3375.7	3538.8	3592.1
22.5°	3426.8	3416.8	3341.3	3178.3	3028.5	3045.2	3259.3	3332.5	3566.5	3740.7	3758.5
25°	4065.8	4053.5	3937.1	3707.4	3447.8	3280.3	3450.1	3534.4	3794.0	3948.2	3911.6
27.5°	4742.5	4732.5	4617.1	4332.0	3962.6	3655.3	3677.5	3757.4	4025.8	4177.8	4061.3
30°	5398.1	5401.4	5287.1	4994.3	4576.1	4133.4	3965.9	4012.5	4251.0	4405.2	4238.8
32.5°	6021.5	6026.0	5927.2	5600.0	5209.5	4689.2	4365.3	4353.1	4512.8	4664.8	4474.0
35°	6577.3	6588.4	6520.7	6266.7	5852.9	5308.2	4883.3	4854.5	4884.4	5056.4	4834.5
37.5°	7113.1	7119.8	7068.7	6854.6	6508.5	5988.2	5537.9	5496.8	5432.5	5564.5	5310.4
40°	7700.0	7683.3	7624.5	7430.4	7133.1	6739.3	6241.2	6170.2	6058.1	6175.7	5936.1
42.5°	8245.8	8226.9	8236.9	8017.2	7766.5	7511.4	7061.0	6939.0	6873.5	7008.8	6703.8
45°	8928.0	8918.0	8951.3	8760.5	8557.5	8372.2	8000.6	7867.5	7838.6	7997.3	7632.3
47.5°	9601.4	9625.8	9729.0	9648.0	9565.9	9402.8	8995.7	8935.8	8953.5	9145.4	8611.8
50°	10162.7	10191.6	10474.4	10567.6	10686.3	10590.9	10182.7	10146.1	10216.0	10389.0	9665.7
52.5°	10568.7	10627.5	10979.2	11408.5	11841.2	11905.5	11498.4	11465.1	11559.4	11586.0	10480.0
55°	10850.5	10902.6	11300.9	12086.3	12967.1	13244.5	12991.5	12862.9	12845.1	12582.2	11336.4
57.5°	10900.4	10894.9	11467.3	12524.5	13850.2	14565.7	14406.0	14279.5	13915.6	13503.0	12318.2
60°	10618.7	10650.8	11315.3	12676.5	14404.9	15565.2	15577.4	15413.2	14846.4	14398.2	13270.0
62.5°	9751.1	9882.1	10553.2	12278.2	14398.2	15967.9	16436.1	16310.7	15632.9	15131.5	14235.1
65°	8344.5	8391.1	9031.2	10913.7	13425.3	15799.3	17209.3	17162.7	16341.8	15843.7	14731.0
67.5°	6093.6	5992.7	6664.9	8594.1	11366.4	14816.4	17764.0	17822.7	16888.7	15990.1	14203.0
68°	5561.1	5591.1	6114.7	8020.6	10827.2	14469.2	17800.6	17890.4	16943.0	15894.7	13914.5
70°	3314.7	3372.4	3839.4	5522.3	8236.9	12504.5	17405.6	17610.9	16619.1	14910.7	12035.3
72.5°	846.4	915.2	1356.7	2471.6	4704.7	8810.4	14693.3	15040.5	14429.3	12096.3	8124.8
75°	348.3	366.1	484.8	814.3	1752.8	3969.2	9684.6	10427.8	10003.0	7241.8	3671.9
77.5°	240.7	252.9	311.7	451.5	758.8	1345.6	4748.0	5284.9	4761.3	2471.6	800.9
80°	173.1	183.0	223.0	300.6	436.0	480.3	1547.5	1789.4	1421.1	542.5	198.6
82.5°	103.2	110.9	166.4	214.1	265.1	229.6	384.9	437.1	411.6	269.6	88.7
85°	51.0	59.9	112.0	153.1	143.1	96.5	117.6	130.9	162.0	164.2	47.7
87.5°	3.3	6.7	65.5	92.1	39.9	22.2	34.4	42.2	57.7	81.0	20.0
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°	2787.8	2787.8	2787.8	2787.8	2787.8	2787.8	2787.8	2787.8	2787.8	2787.8	2787.8
2.5°	2795.6	2796.7	2788.9	2785.6	2787.8	2774.5	2768.9	2771.1	2771.1	2774.5	2768.9
5°	2823.3	2823.3	2810.0	2792.2	2782.2	2756.7	2740.1	2735.6	2732.3	2730.1	2725.7
7.5°	2883.2	2876.5	2853.2	2814.4	2781.1	2725.7	2683.5	2661.3	2650.2	2645.8	2642.5
10°	2979.7	2967.5	2928.7	2856.6	2780.0	2681.3	2589.2	2523.8	2469.4	2447.2	2433.9
12.5°	3109.5	3091.7	3026.3	2906.5	2772.3	2590.3	2390.6	2198.7	2020.1	1946.9	1910.3
15°	3259.3	3233.7	3130.6	2948.6	2726.8	2385.1	1951.3	1615.2	1367.8	1274.6	1234.7
17.5°	3411.2	3378.0	3221.5	2975.3	2590.3	1960.2	1368.9	1033.9	868.6	824.2	808.7
20°	3564.3	3515.5	3300.3	2955.3	2281.9	1413.3	903.0	755.5	707.8	694.5	690.0
22.5°	3709.7	3634.2	3371.3	2877.6	1807.1	948.5	714.4	667.8	652.3	644.5	642.3
25°	3836.1	3730.7	3433.4	2638.0	1279.1	716.6	643.4	627.9	607.9	593.5	594.6
27.5°	3954.8	3827.2	3471.1	2243.1	853.1	612.4	595.7	574.6	538.0	517.0	517.0
30°	4097.9	3955.9	3498.9	1726.1	627.9	541.4	528.0	495.9	446.0	418.2	418.2
32.5°	4313.1	4151.2	3481.1	1211.4	520.3	475.9	444.8	400.5	346.1	319.5	318.4
35°	4642.6	4452.9	3354.7	794.3	459.3	413.8	363.9	309.5	261.8	239.6	238.5
37.5°	5086.3	4856.7	3070.7	568.0	411.6	356.1	296.2	236.3	200.8	186.4	185.3
40°	5662.1	5326.0	2664.6	460.4	367.2	300.6	228.5	183.0	158.6	147.5	148.7
42.5°	6353.2	5828.5	2177.6	397.1	323.9	247.4	178.6	144.2	128.7	120.9	118.7
45°	7120.9	6324.4	1667.3	353.9	280.7	199.7	139.8	114.3	102.1	97.6	97.6
47.5°	7965.1	6806.9	1220.3	316.2	234.1	154.2	112.0	93.2	83.2	79.9	78.8
50°	8731.7	7142.0	879.7	276.2	191.9	122.0	91.0	77.7	71.0	66.6	66.6
52.5°	9370.6	7247.4	647.9	233.0	155.3	97.6	75.4	66.6	59.9	56.6	56.6
55°	9933.1	7204.1	481.5	191.9	125.4	79.9	64.3	56.6	51.0	47.7	47.7
57.5°	10472.2	7064.3	359.4	156.4	101.0	64.3	54.4	47.7	42.2	39.9	39.9
60°	10912.6	6831.3	267.4	126.5	81.0	52.1	45.5	38.8	34.4	31.1	31.1
62.5°	11269.8	6574.0	196.4	104.3	64.3	41.0	35.5	32.2	25.5	22.2	22.2
65°	11272.1	6146.9	147.5	86.5	49.9	32.2	26.6	25.5	16.6	13.3	12.2
67.5°	10456.7	5299.3	113.2	74.3	38.8	24.4	20.0	21.1	8.9	5.5	4.4
68°	10160.5	5084.1	106.5	73.2	36.6	23.3	18.9	21.1	7.8	4.4	3.3
70°	8566.4	4044.7	85.4	71.0	32.2	17.7	15.5	21.1	6.7	3.3	2.2
72.5°	5479.1	2347.4	63.2	56.6	24.4	13.3	10.0	18.9	6.7	2.2	1.1
75°	2331.8	727.7	43.3	39.9	14.4	10.0	6.7	12.2	4.4	1.1	0.0
77.5°	491.4	164.2	25.5	24.4	10.0	6.7	4.4	3.3	1.1	0.0	0.0
80°	126.5	47.7	13.3	12.2	5.5	3.3	2.2	0.0	0.0	0.0	0.0
82.5°	39.9	18.9	7.8	5.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.0	11.1	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.1	3.3	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)