

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: P322192

Luminaire Tested: **GAN-SA8A-730-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322192
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-SA8A-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 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: 24786 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

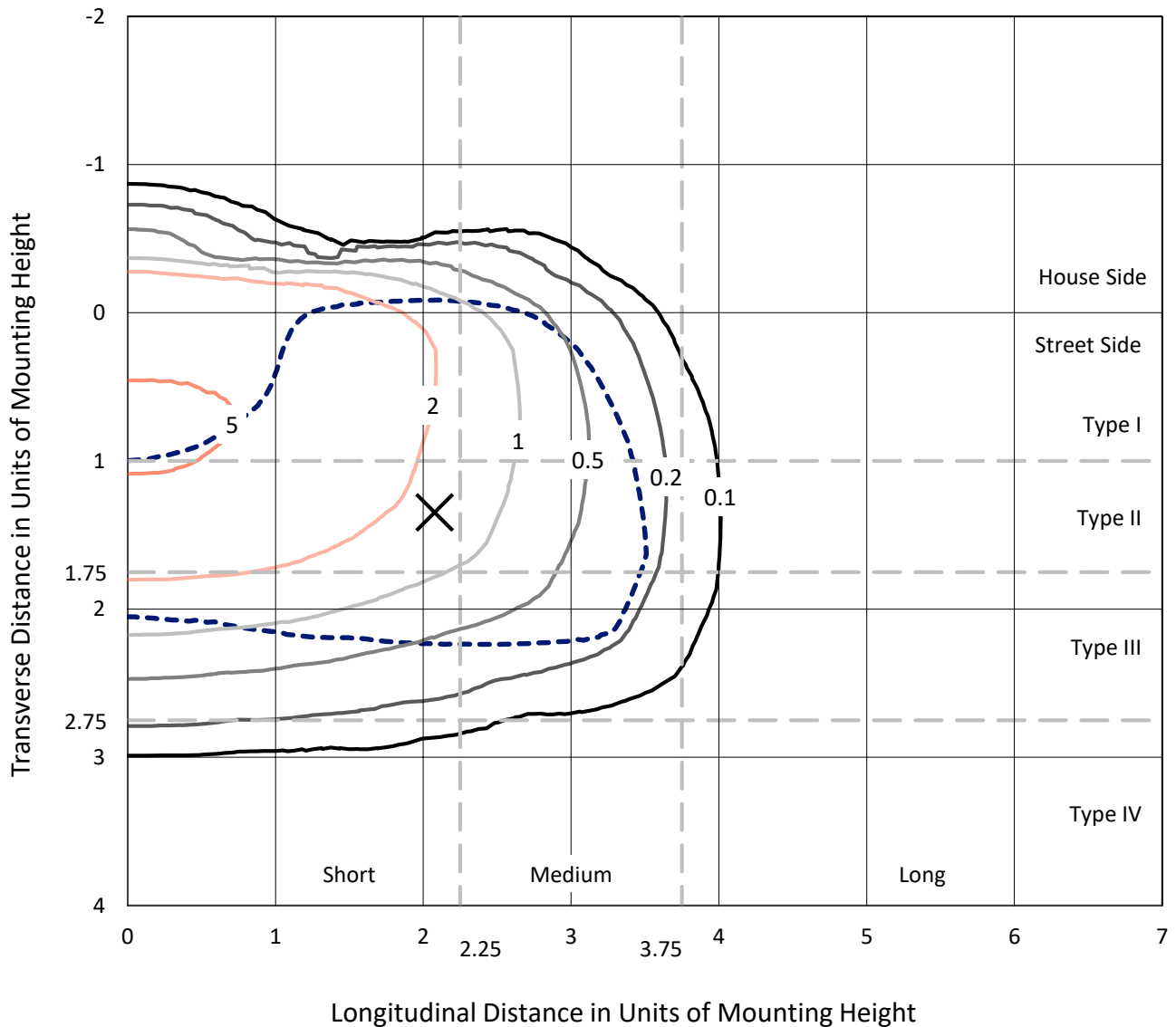
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

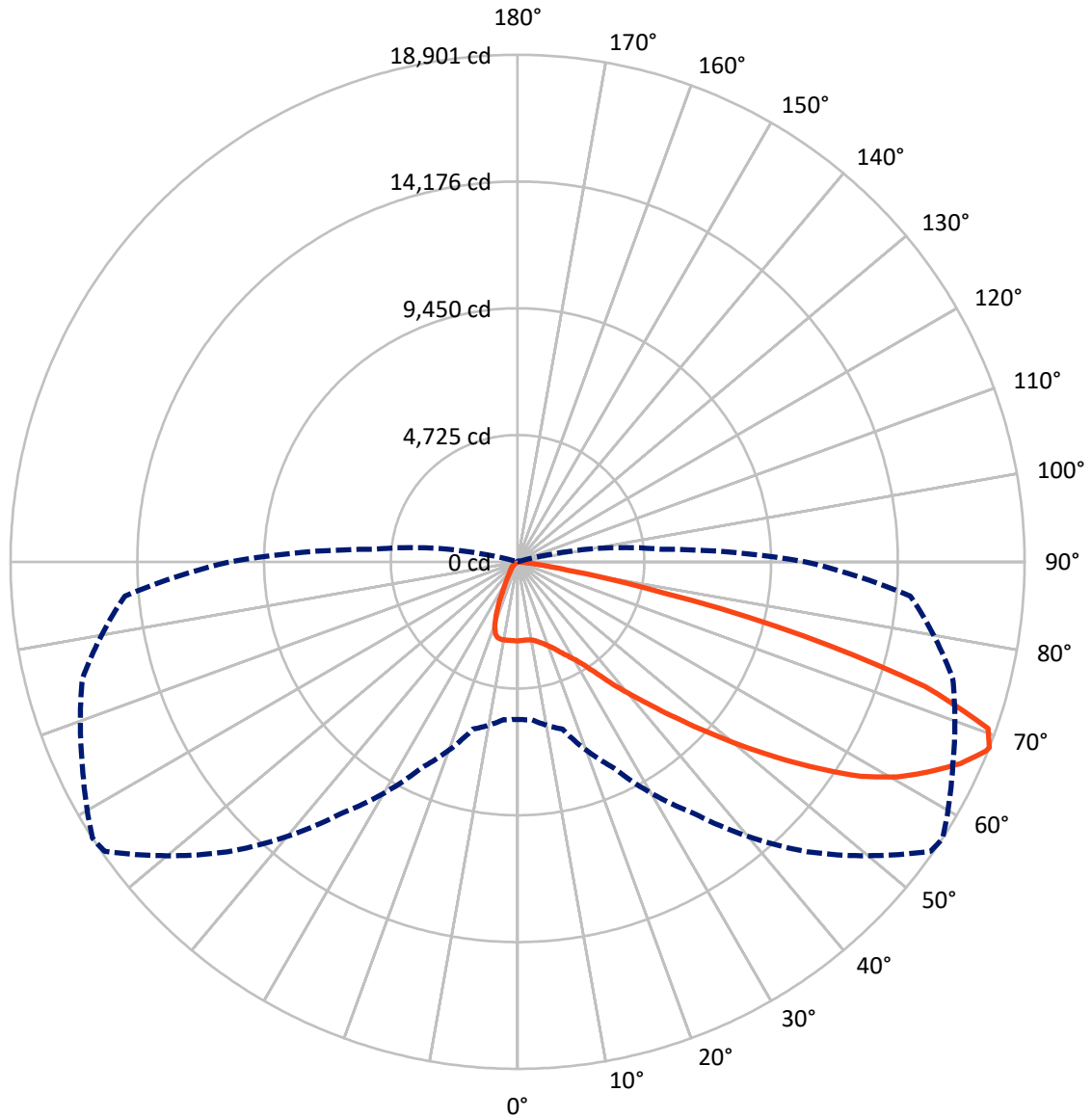
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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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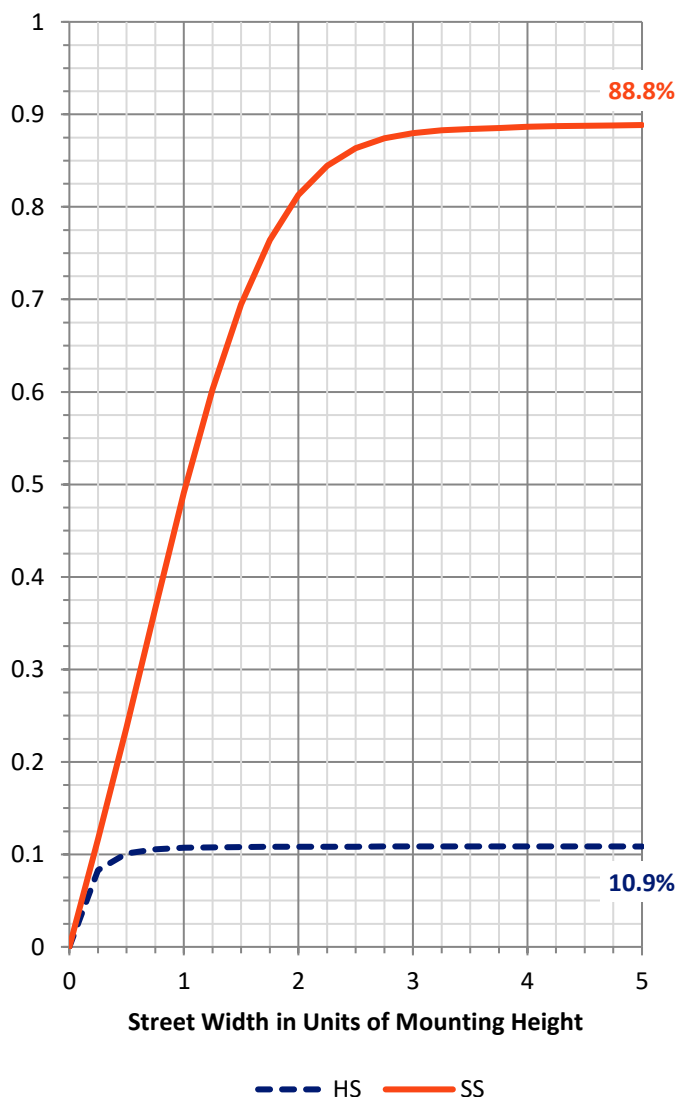
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2717.9	0.0	2717.9
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	22068.1	0.0	22068.1
	% Fixture	89.0	0.0	89.0
Total	Lumens	24786.0	0.0	24786.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.6	1.1
10°-20°	763.8	3.1
20°-30°	1317.6	5.3
30°-40°	2274.1	9.2
40°-50°	3890.0	15.7
50°-60°	6223.6	25.1
60°-70°	7190.7	29.0
70°-80°	2747.6	11.1
80°-90°	103.0	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°	24786.0	100.0
0°-180°	24786.0	100.0

Coefficient of Utilization

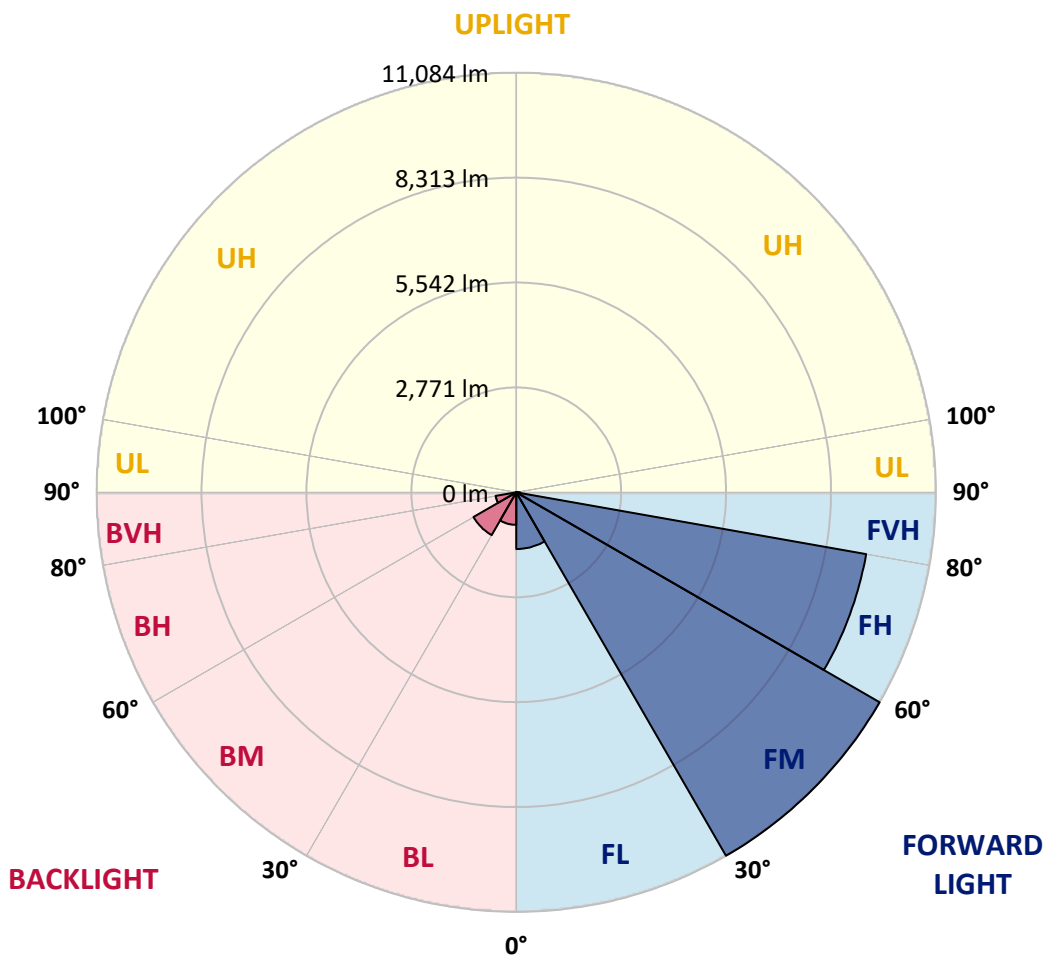


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1498.1	6.0			
FM (30°-60°)	11084.1	44.7			
FH (60°-80°)	9384.8	37.9			G4/12000
FVH (80°-90°)	101.1	0.4			G2/225
BL (0°-30°)	859.0	3.5	B2/1000		
BM (30°-60°)	1303.6	5.3	B2/2500		
BH (60°-80°)	553.5	2.2	B2/1000		G2/1000
BVH (80°-90°)	1.9	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2945.2	2945.2	2945.2	2945.2	2945.2	2945.2	2945.2	2945.2	2945.2	2945.2	2945.2
2.5°	2876.1	2889.0	2898.4	2904.2	2911.2	2926.5	2931.2	2938.2	2941.7	2941.7	2949.9
5°	2762.4	2776.5	2796.4	2812.8	2845.6	2887.8	2918.3	2930.0	2951.1	2969.8	2980.4
7.5°	2656.9	2673.3	2696.8	2735.4	2791.7	2859.7	2923.0	2939.4	2980.4	3020.2	3040.2
10°	2588.9	2601.8	2632.3	2687.4	2761.2	2856.2	2945.2	2965.2	3035.5	3102.3	3139.8
12.5°	2565.5	2577.2	2608.9	2671.0	2762.4	2873.7	2996.8	3026.1	3129.2	3226.5	3279.2
15°	2599.5	2601.8	2635.8	2694.4	2784.7	2917.1	3082.4	3117.5	3247.6	3374.2	3439.8
17.5°	2730.8	2720.2	2737.8	2763.6	2835.1	2974.5	3172.6	3225.3	3398.8	3547.6	3609.8
20°	3058.9	3058.9	3019.1	2948.7	2949.9	3063.6	3294.5	3354.3	3566.4	3738.7	3794.9
22.5°	3620.3	3609.8	3530.1	3357.8	3199.6	3217.1	3443.3	3520.7	3768.0	3952.0	3970.7
25°	4295.4	4282.5	4159.4	3916.8	3642.6	3465.6	3644.9	3734.0	4008.2	4171.1	4132.5
27.5°	5010.3	4999.7	4877.9	4576.7	4186.4	3861.7	3885.2	3969.6	4253.2	4413.7	4290.7
30°	5702.9	5706.5	5585.7	5276.3	4834.5	4366.9	4189.9	4239.1	4491.1	4654.0	4478.2
32.5°	6361.6	6366.3	6262.0	5916.2	5503.7	4954.0	4611.8	4598.9	4767.7	4928.3	4726.7
35°	6948.8	6960.5	6889.0	6620.6	6183.5	5608.0	5159.1	5128.7	5160.3	5342.0	5107.6
37.5°	7514.8	7521.9	7468.0	7241.8	6876.1	6326.4	5850.6	5807.2	5739.3	5878.7	5610.4
40°	8134.8	8117.3	8055.1	7850.0	7535.9	7119.9	6593.7	6518.7	6400.3	6524.5	6271.4
42.5°	8711.5	8691.5	8702.1	8470.0	8205.2	7935.6	7459.8	7330.8	7261.7	7404.7	7082.4
45°	9432.2	9421.7	9456.8	9255.3	9040.8	8845.1	8452.4	8311.8	8281.3	8448.9	8063.3
47.5°	10143.6	10169.4	10278.4	10192.9	10106.1	9933.9	9503.7	9440.4	9459.2	9661.9	9098.2
50°	10736.7	10767.1	11066.0	11164.5	11289.9	11189.1	10757.8	10719.1	10792.9	10975.8	10211.6
52.5°	11165.6	11227.7	11599.3	12052.8	12509.9	12577.9	12147.8	12112.6	12212.2	12240.3	11071.9
55°	11463.3	11518.4	11939.1	12768.9	13699.5	13992.5	13725.3	13589.3	13570.6	13292.8	11976.6
57.5°	11516.0	11510.2	12114.9	13231.9	14632.4	15388.3	15219.6	15086.0	14701.5	14265.6	13013.9
60°	11218.4	11252.4	11954.4	13392.4	15218.4	16444.3	16457.2	16283.7	15684.8	15211.4	14019.4
62.5°	10301.9	10440.2	11149.2	12971.7	15211.4	16869.7	17364.3	17231.9	16515.8	15986.0	15039.1
65°	8815.8	8865.0	9541.2	11530.1	14183.5	16691.6	18181.2	18132.0	17264.7	16738.5	15563.0
67.5°	6437.8	6331.1	7041.4	9079.5	12008.3	15653.2	18767.2	18829.3	17842.5	16893.2	15005.1
68°	5875.2	5906.9	6460.1	8473.5	11438.7	15286.4	18805.9	18900.8	17899.9	16792.4	14700.4
70°	3501.9	3562.9	4056.3	5834.2	8702.1	13210.8	18388.6	18605.5	17557.7	15752.8	12715.0
72.5°	894.2	966.9	1433.4	2611.2	4970.4	9308.0	15523.1	15889.9	15244.2	12779.5	8583.7
75°	368.0	386.8	512.2	860.2	1851.8	4193.4	10231.5	11016.8	10567.9	7650.8	3879.3
77.5°	254.3	267.2	329.3	477.0	801.6	1421.6	5016.2	5583.4	5030.2	2611.2	846.2
80°	182.8	193.4	235.6	317.6	460.6	507.5	1634.9	1890.4	1501.3	573.1	209.8
82.5°	109.0	117.2	175.8	226.2	280.1	242.6	406.7	461.8	434.8	284.8	93.8
85°	53.9	63.3	118.4	161.7	151.2	102.0	124.2	138.3	171.1	173.5	50.4
87.5°	3.5	7.0	69.1	97.3	42.2	23.4	36.3	44.5	60.9	85.6	21.1
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°	2945.2	2945.2	2945.2	2945.2	2945.2	2945.2	2945.2	2945.2	2945.2	2945.2	2945.2
2.5°	2953.4	2954.6	2946.4	2942.9	2945.2	2931.2	2925.3	2927.7	2927.7	2931.2	2925.3
5°	2982.7	2982.7	2968.7	2949.9	2939.4	2912.4	2894.8	2890.1	2886.6	2884.3	2879.6
7.5°	3046.0	3039.0	3014.4	2973.4	2938.2	2879.6	2835.1	2811.6	2799.9	2795.2	2791.7
10°	3148.0	3135.1	3094.1	3017.9	2937.0	2832.7	2735.4	2666.3	2608.9	2585.4	2571.4
12.5°	3285.1	3266.4	3197.2	3070.6	2928.8	2736.6	2525.7	2322.9	2134.2	2056.9	2018.2
15°	3443.3	3416.4	3307.4	3115.2	2880.8	2519.8	2061.5	1706.4	1445.1	1346.6	1304.4
17.5°	3603.9	3568.7	3403.5	3143.3	2736.6	2070.9	1446.2	1092.3	917.7	870.8	854.4
20°	3765.6	3714.1	3486.7	3122.2	2410.8	1493.1	954.0	798.1	747.7	733.7	729.0
22.5°	3919.2	3839.5	3561.7	3040.2	1909.2	1002.1	754.8	705.5	689.1	680.9	678.6
25°	4052.8	3941.4	3627.3	2787.0	1351.3	757.1	679.8	663.4	642.3	627.0	628.2
27.5°	4178.2	4043.4	3667.2	2369.8	901.3	646.9	629.4	607.1	568.4	546.2	546.2
30°	4329.4	4179.3	3696.5	1823.6	663.4	571.9	557.9	523.9	471.1	441.8	441.8
32.5°	4556.7	4385.6	3677.7	1279.8	549.7	502.8	470.0	423.1	365.7	337.5	336.4
35°	4904.8	4704.4	3544.1	839.2	485.2	437.2	384.4	327.0	276.6	253.2	252.0
37.5°	5373.6	5131.0	3244.1	600.1	434.8	376.2	312.9	249.6	212.1	196.9	195.7
40°	5981.9	5626.8	2815.1	486.4	387.9	317.6	241.4	193.4	167.6	155.9	157.0
42.5°	6712.0	6157.7	2300.6	419.6	342.2	261.4	188.7	152.4	136.0	127.7	125.4
45°	7523.1	6681.6	1761.5	373.9	296.5	211.0	147.7	120.7	107.8	103.1	103.1
47.5°	8414.9	7191.4	1289.2	334.0	247.3	162.9	118.4	98.4	87.9	84.4	83.2
50°	9224.8	7545.3	929.4	291.8	202.8	128.9	96.1	82.0	75.0	70.3	70.3
52.5°	9899.9	7656.7	684.4	246.1	164.1	103.1	79.7	70.3	63.3	59.8	59.8
55°	10494.1	7611.0	508.6	202.8	132.4	84.4	68.0	59.8	53.9	50.4	50.4
57.5°	11063.7	7463.3	379.7	165.3	106.7	68.0	57.4	50.4	44.5	42.2	42.2
60°	11528.9	7217.2	282.5	133.6	85.6	55.1	48.1	41.0	36.3	32.8	32.8
62.5°	11906.3	6945.3	207.4	110.2	68.0	43.4	37.5	34.0	27.0	23.4	23.4
65°	11908.7	6494.0	155.9	91.4	52.7	34.0	28.1	27.0	17.6	14.1	12.9
67.5°	11047.3	5598.6	119.5	78.5	41.0	25.8	21.1	22.3	9.4	5.9	4.7
68°	10734.3	5371.3	112.5	77.4	38.7	24.6	19.9	22.3	8.2	4.7	3.5
70°	9050.2	4273.1	90.2	75.0	34.0	18.8	16.4	22.3	7.0	3.5	2.3
72.5°	5788.5	2479.9	66.8	59.8	25.8	14.1	10.5	19.9	7.0	2.3	1.2
75°	2463.5	768.8	45.7	42.2	15.2	10.5	7.0	12.9	4.7	1.2	0.0
77.5°	519.2	173.5	27.0	25.8	10.5	7.0	4.7	3.5	1.2	0.0	0.0
80°	133.6	50.4	14.1	12.9	5.9	3.5	2.3	0.0	0.0	0.0	0.0
82.5°	42.2	19.9	8.2	5.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.1	11.7	4.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.7	3.5	1.2	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)