

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: P324749

Luminaire Tested: **GAN-SA5A-730-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324749  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5A-730-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17364 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

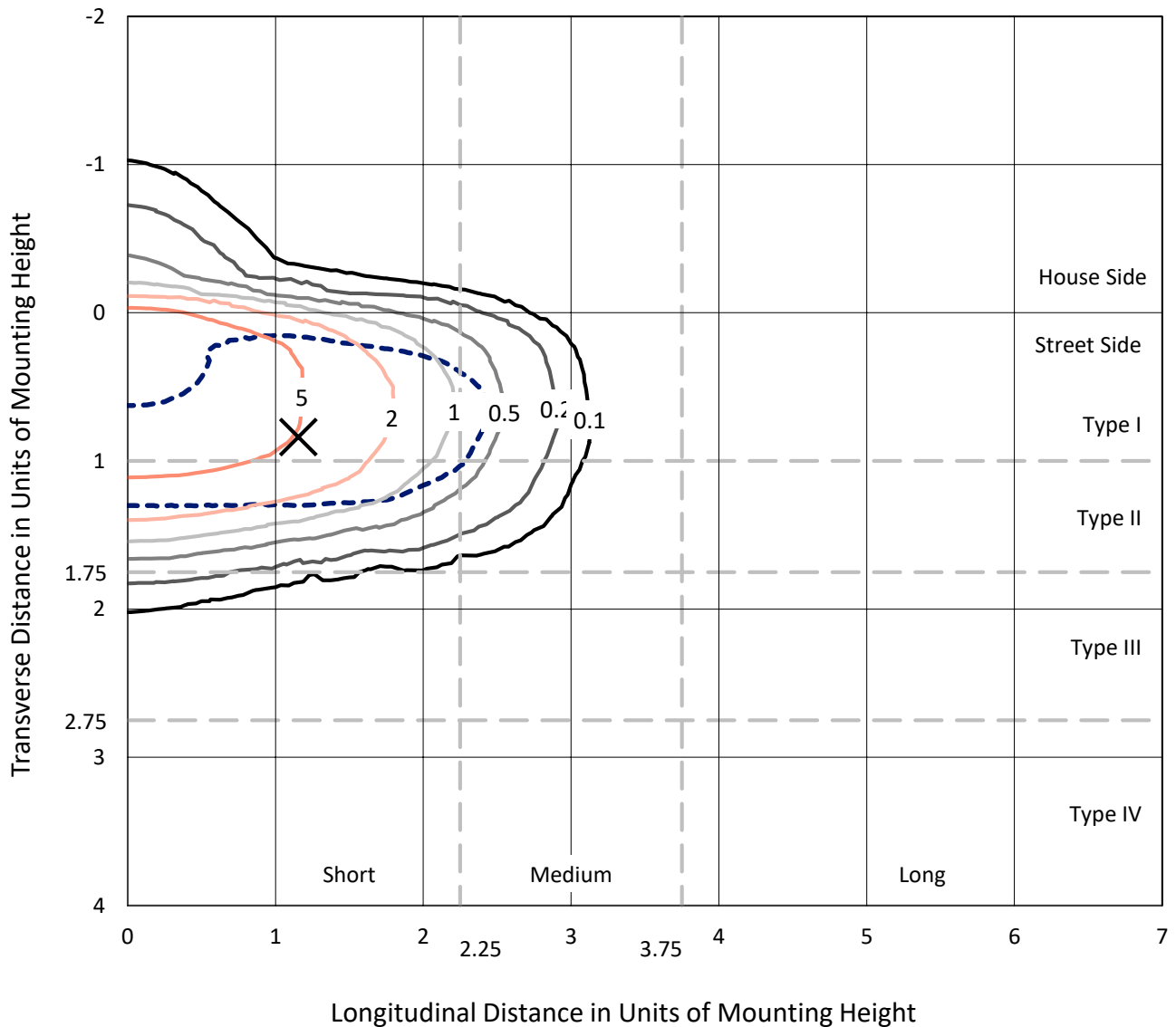
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

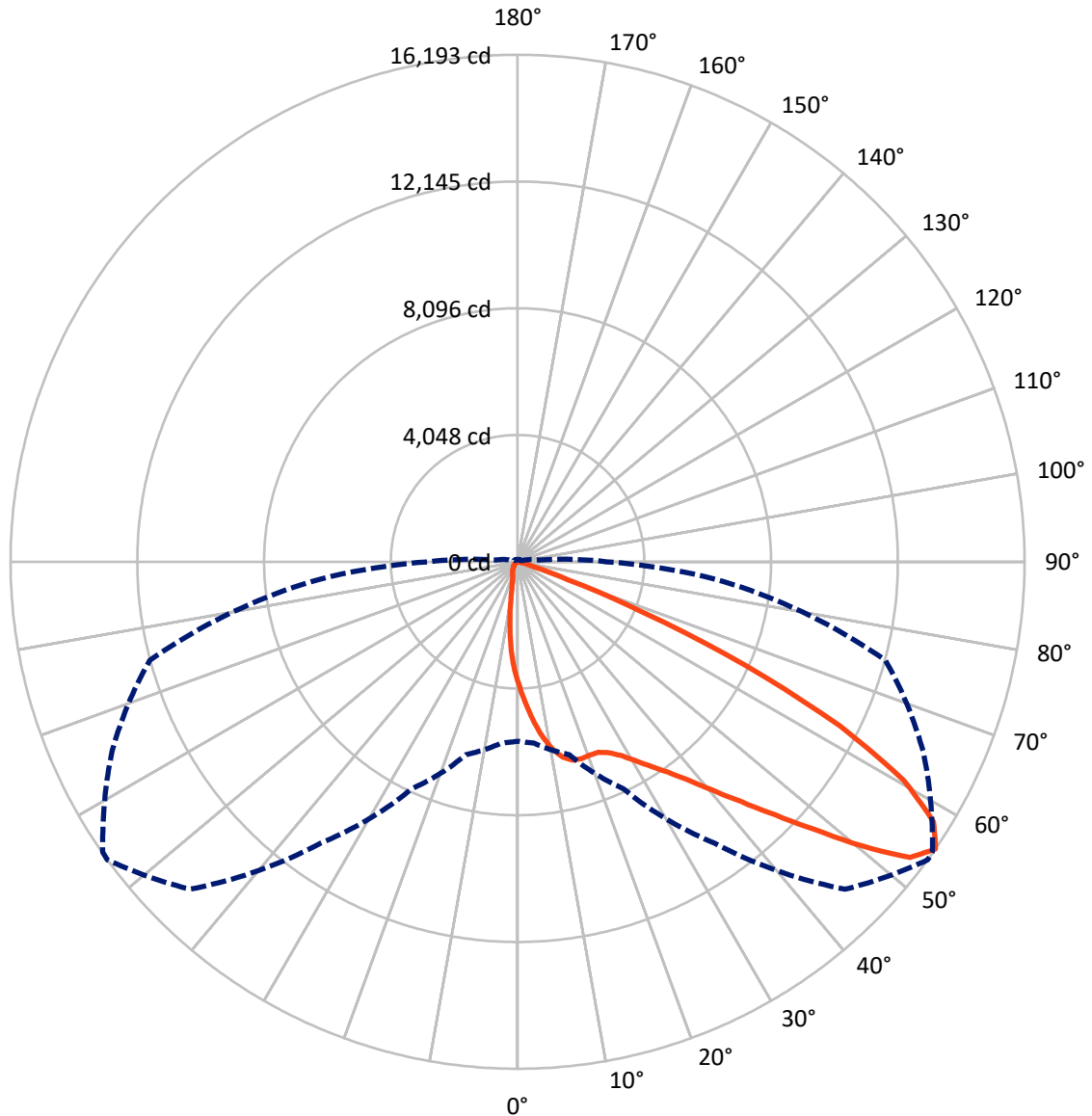
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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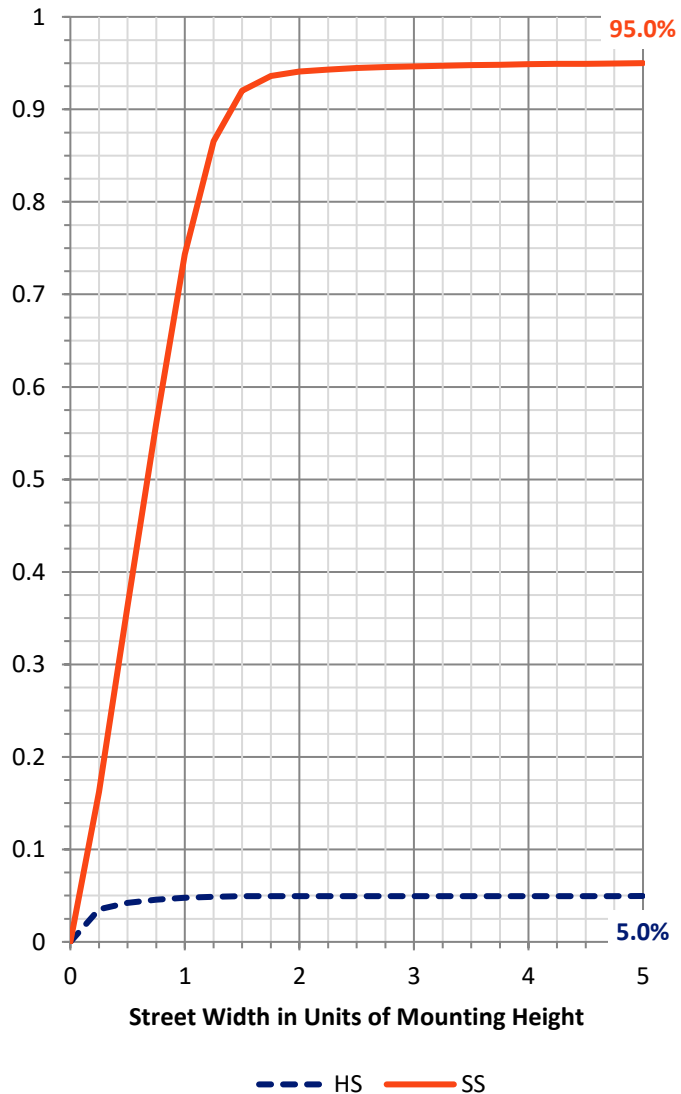
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	866.3	0.0	866.3
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	16497.7	0.0	16497.7
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	17364.0	0.0	17364.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	358.1	2.1
10°-20°	982.2	5.7
20°-30°	1676.9	9.7
30°-40°	2691.1	15.5
40°-50°	4300.3	24.8
50°-60°	4607.9	26.5
60°-70°	2365.8	13.6
70°-80°	358.4	2.1
80°-90°	23.3	0.1
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°	17364.0	100.0
0°-180°	17364.0	100.0

**Coefficient of Utilization**



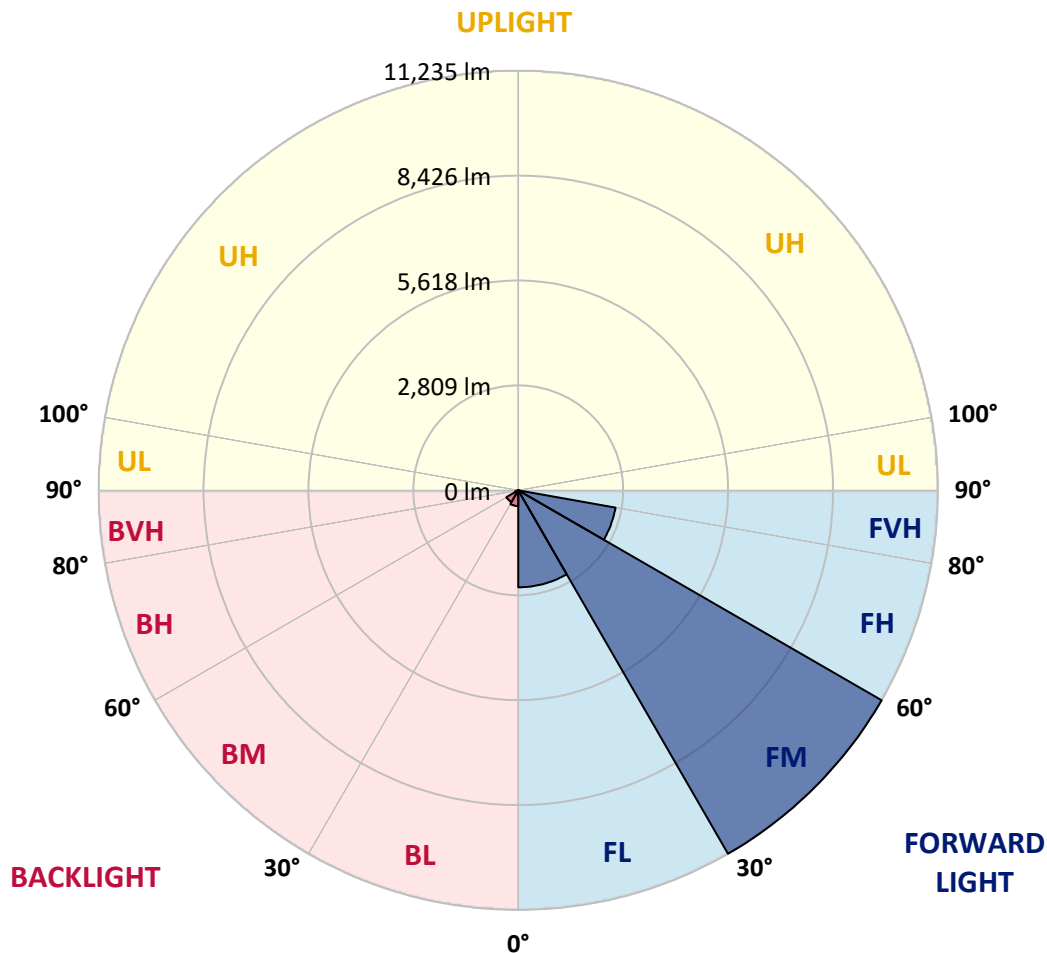
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2595.6	14.9			
FM (30°-60°)	11235.3	64.7			
FH (60°-80°)	2644.4	15.2			G2/5000
FVH (80°-90°)	22.4	0.1			G1/100
BL (0°-30°)	421.5	2.4	B1/500		
BM (30°-60°)	364.1	2.1	B1/1000		
BH (60°-80°)	79.8	0.5	B0/110		G0/110
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3888.8	3888.8	3888.8	3888.8	3888.8	3888.8	3888.8	3888.8	3888.8	3888.8	3888.8
2.5°	4880.2	4807.4	4809.7	4776.7	4656.0	4561.5	4463.2	4440.0	4287.0	4126.5	3972.1
5°	5723.8	5670.5	5657.8	5594.0	5426.1	5248.4	5057.9	5013.6	4714.4	4386.0	4062.8
7.5°	6157.2	6158.0	6147.5	6124.2	6019.2	5846.8	5614.3	5567.8	5160.6	4668.0	4157.3
10°	6031.2	6059.7	6118.2	6195.4	6275.7	6253.9	6079.2	6037.2	5594.8	4966.4	4262.3
12.5°	5737.3	5741.0	5806.3	5933.0	6164.0	6400.9	6403.9	6389.7	6009.5	5278.4	4377.8
15°	5591.0	5605.3	5629.3	5711.0	5930.0	6309.4	6580.9	6601.1	6389.7	5609.8	4500.7
17.5°	5687.0	5707.3	5687.0	5696.8	5823.5	6164.7	6611.6	6663.4	6721.9	5937.5	4617.0
20°	5947.2	5966.0	5930.0	5890.2	5915.0	6122.7	6589.9	6659.6	6982.1	6228.4	4714.4
22.5°	6298.2	6305.7	6250.9	6185.7	6167.7	6265.2	6607.9	6679.9	7190.5	6491.6	4775.9
25°	6684.4	6691.1	6622.9	6547.9	6505.1	6544.9	6755.6	6809.6	7374.2	6742.9	4811.2
27.5°	7105.0	7111.0	7025.6	6933.3	6883.8	6885.3	6999.3	7057.1	7570.0	7029.3	4839.7
30°	7549.7	7546.7	7468.0	7339.8	7276.8	7275.3	7350.3	7408.7	7853.4	7396.7	4878.7
32.5°	8049.1	8043.1	7931.4	7772.4	7701.2	7711.7	7778.4	7812.2	8205.1	7788.2	4948.4
35°	8706.8	8689.5	8520.8	8323.6	8192.4	8188.6	8244.8	8271.8	8653.5	8262.1	5064.6
37.5°	9560.1	9544.4	9315.7	9029.2	8844.7	8775.8	8842.5	8877.0	9293.2	8870.2	5251.4
40°	10401.5	10385.7	10250.0	9987.6	9703.4	9537.6	9590.1	9626.9	10091.8	9608.1	5486.8
42.5°	10981.9	10995.4	11042.6	11064.4	10798.2	10450.2	10474.2	10512.5	10930.9	10397.0	5756.0
45°	11134.9	11164.1	11431.1	11955.2	12055.0	11783.5	11532.3	11553.3	11783.5	11185.8	6025.2
47.5°	10675.2	10729.2	11244.3	12219.2	13063.5	13255.5	12780.1	12752.3	12601.6	11824.0	6216.4
50°	9630.6	9680.1	10347.5	11789.5	13369.5	14660.8	14275.3	14193.6	13319.2	12205.7	6283.9
52.5°	8118.9	8178.9	8721.0	10436.7	12792.8	15287.7	15691.1	15622.8	13845.6	12235.7	6295.2
55°	5733.5	5806.3	6379.9	7998.9	10965.4	14789.0	16192.7	16172.5	14282.8	12156.2	6319.2
57.5°	3222.2	3274.7	3893.3	5127.6	8031.1	12881.3	15668.6	15802.8	14546.8	12018.2	6355.2
60°	1430.8	1445.0	1765.2	2552.6	4701.7	9844.3	14168.1	14394.6	14320.3	11833.7	6415.9
62.5°	793.4	781.4	781.4	1061.1	2043.4	6094.2	11553.3	11927.5	13353.7	11615.5	6418.9
65°	621.6	610.4	578.2	582.7	778.4	2704.8	8000.4	8665.5	11518.0	10975.9	6202.9
67.5°	527.2	517.4	485.2	472.4	483.7	892.3	4395.8	5086.4	8739.8	9313.4	5372.8
70°	445.4	438.7	422.2	406.4	377.9	440.9	1682.0	2151.4	5385.6	6195.4	3667.6
72.5°	358.4	355.4	361.4	347.9	313.4	294.0	575.2	696.6	2419.1	2764.8	1511.0
75°	308.9	307.4	310.4	296.9	258.0	204.7	292.5	319.4	682.4	676.4	305.9
77.5°	201.0	203.2	257.2	251.2	222.0	136.5	151.5	163.5	207.0	155.2	93.0
80°	128.2	126.7	130.5	208.5	199.5	104.2	75.7	79.5	99.7	76.5	45.0
82.5°	78.0	76.5	85.5	97.5	100.5	72.7	46.5	47.2	62.2	49.5	24.0
85°	6.7	9.0	51.7	48.0	34.5	22.5	22.5	24.0	33.0	29.2	13.5
87.5°	0.0	0.0	9.0	13.5	7.5	8.2	8.2	9.0	12.7	12.7	6.7
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°	3888.8	3888.8	3888.8	3888.8	3888.8	3888.8	3888.8	3888.8	3888.8	3888.8	3888.8
2.5°	3891.8	3813.9	3656.4	3504.9	3376.7	3252.9	3112.0	2972.5	2907.3	2881.0	2854.0
5°	3898.6	3738.1	3413.4	3086.5	2747.5	2442.3	2182.1	1915.2	1781.7	1723.2	1696.2
7.5°	3907.6	3663.1	3138.2	2589.3	2043.4	1629.5	1268.0	1035.6	935.1	919.3	880.4
10°	3909.1	3572.4	2818.8	2040.4	1370.0	982.3	755.9	635.9	591.6	584.2	571.4
12.5°	3912.1	3465.2	2464.1	1511.0	913.3	656.9	546.7	506.9	494.9	494.2	494.2
15°	3921.1	3352.7	2095.9	1088.8	656.1	520.4	479.9	464.2	459.7	461.9	461.2
17.5°	3921.1	3220.0	1734.5	811.4	530.2	467.9	445.4	434.9	433.4	435.7	436.4
20°	3892.6	3058.7	1403.0	631.4	470.2	434.2	413.9	404.2	400.4	401.9	402.7
22.5°	3824.4	2860.8	1133.1	522.7	430.4	403.4	381.7	366.7	360.7	361.4	361.4
25°	3717.9	2626.1	886.3	452.2	398.2	370.4	344.9	327.7	323.9	323.2	324.7
27.5°	3581.4	2366.6	705.6	398.2	359.9	333.7	308.2	294.0	291.0	291.7	292.5
30°	3447.2	2097.4	556.4	352.4	317.2	292.5	273.0	266.2	266.2	268.5	269.2
32.5°	3324.2	1838.7	440.2	312.7	279.0	256.5	245.2	244.5	248.2	249.7	250.5
35°	3218.5	1599.5	364.4	282.0	249.0	229.5	225.7	228.7	233.2	236.2	237.0
37.5°	3143.5	1385.8	318.7	256.5	225.7	210.0	209.2	215.2	221.2	228.0	229.5
40°	3112.0	1205.0	287.2	234.0	207.0	195.0	192.7	201.0	212.2	222.0	223.5
42.5°	3085.7	1057.3	260.2	212.2	192.0	174.7	174.0	184.5	198.0	207.7	210.0
45°	3063.2	938.8	235.5	189.0	172.5	150.0	152.2	165.7	176.2	186.7	189.0
47.5°	3016.7	841.4	208.5	164.2	142.5	128.2	132.7	144.7	153.0	168.7	171.0
50°	2933.5	761.9	180.7	134.2	116.2	111.0	117.7	126.0	136.5	150.0	151.5
52.5°	2877.3	701.9	156.7	112.5	96.0	97.5	104.2	107.2	113.2	118.5	117.0
55°	2845.0	668.9	137.2	97.5	81.7	86.2	87.7	84.0	81.0	75.7	73.5
57.5°	2841.3	638.9	122.2	84.7	72.0	74.2	69.0	56.2	45.7	39.7	38.2
60°	2835.3	602.1	110.2	71.2	63.7	60.7	49.5	30.7	21.7	20.2	20.2
62.5°	2770.0	545.2	101.2	60.0	54.0	45.7	28.5	14.2	12.0	12.7	12.7
65°	2562.3	465.7	92.2	48.7	42.7	33.0	14.2	8.2	4.5	5.2	5.2
67.5°	2178.4	371.2	82.5	37.5	32.2	21.0	8.2	3.7	0.0	0.0	0.0
70°	1458.5	230.2	69.7	26.2	21.0	12.7	6.0	0.7	0.0	0.0	0.0
72.5°	559.4	124.5	56.2	15.7	13.5	9.0	3.7	0.0	0.0	0.0	0.0
75°	126.0	81.7	39.0	11.2	9.7	6.0	1.5	0.0	0.0	0.0	0.0
77.5°	48.0	59.2	22.5	7.5	6.7	3.7	0.0	0.0	0.0	0.0	0.0
80°	23.2	35.2	10.5	4.5	3.7	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	12.0	13.5	4.5	2.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.7	6.7	2.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.7	2.2	0.7	0.7	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)