

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: P324776

Luminaire Tested: **GAN-SA2D-730-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324776  
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-SA2D-730-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 1200mA 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: 11834 lumens  
Efficiency: N/A  
Efficacy: 91.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

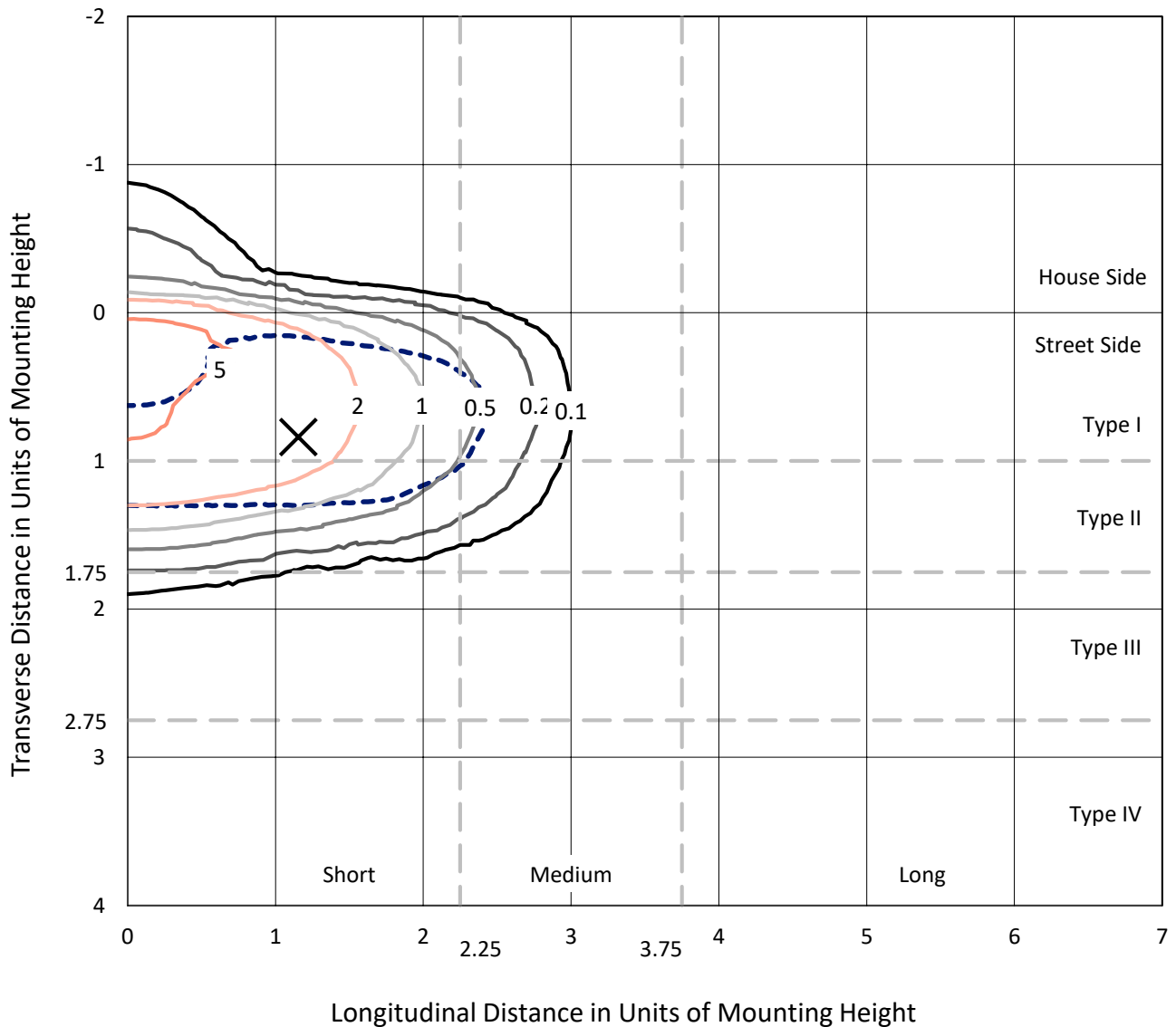
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

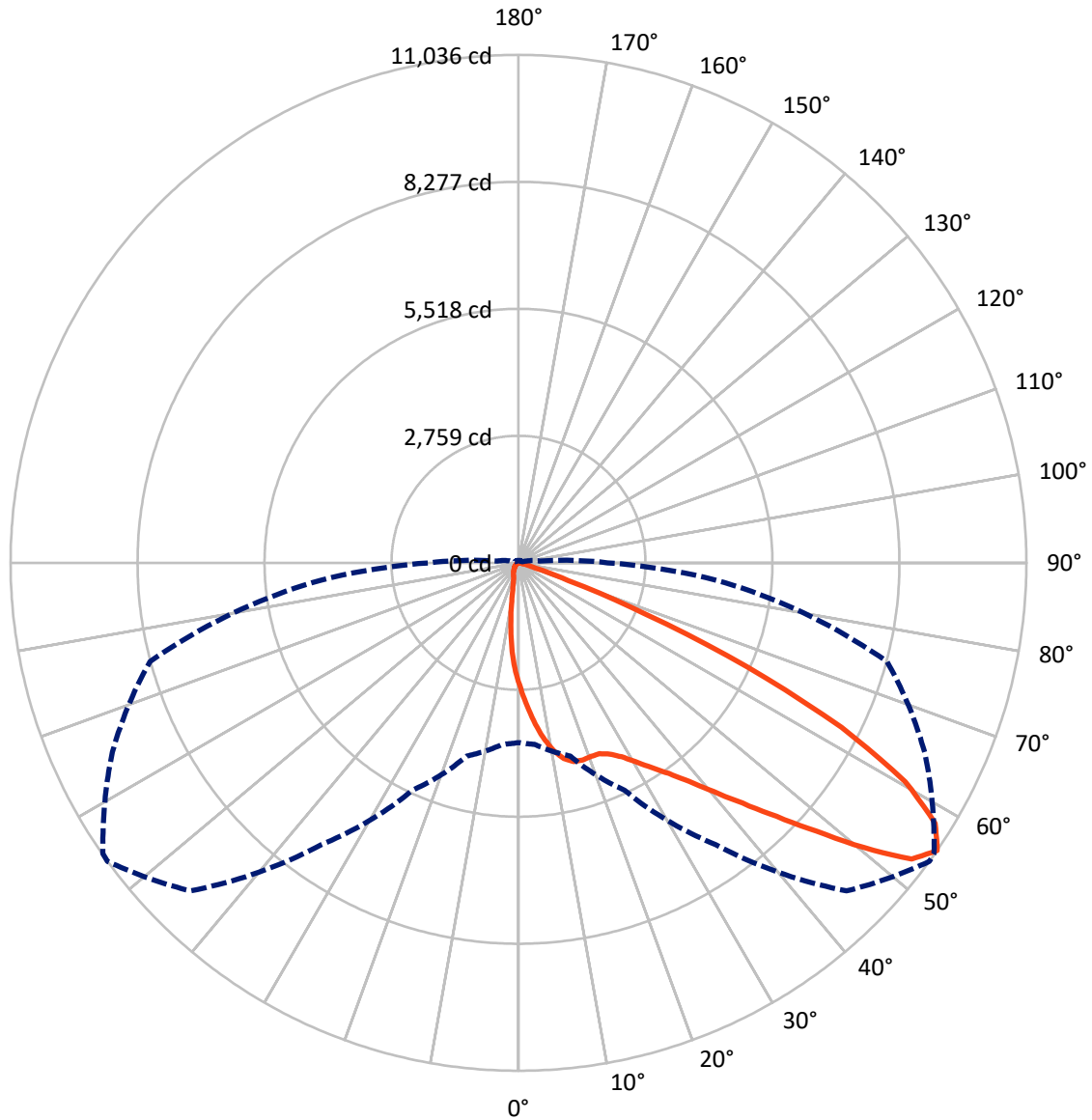
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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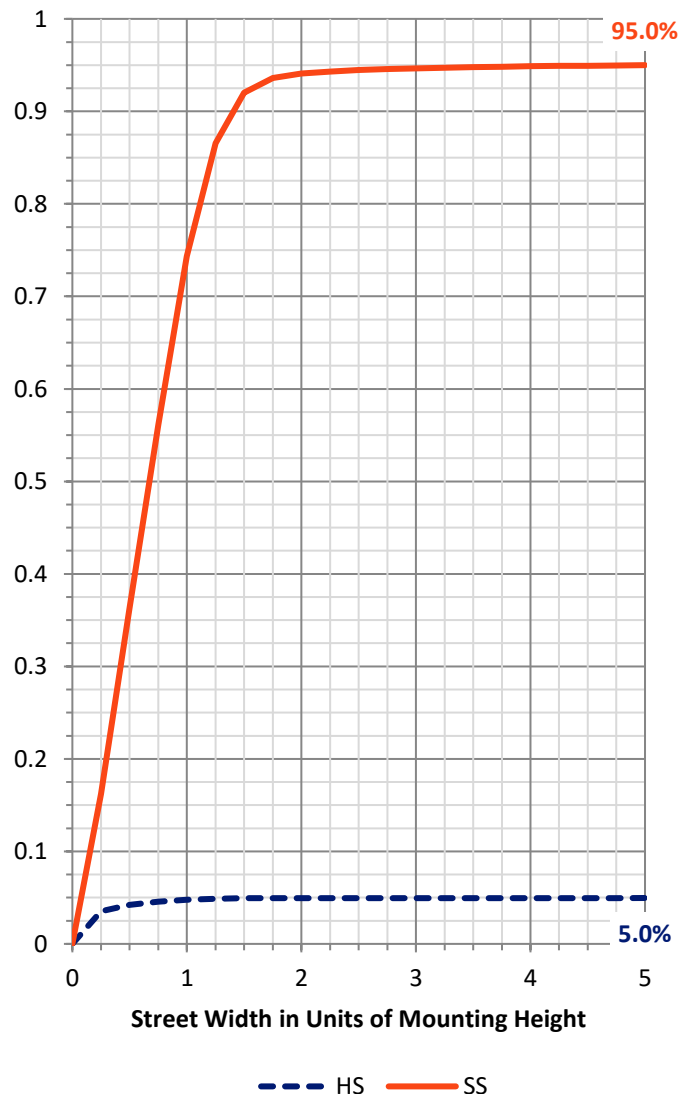
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	590.4	0.0	590.4
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	11243.6	0.0	11243.6
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	11834.0	0.0	11834.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.1	2.1
10°-20°	669.4	5.7
20°-30°	1142.8	9.7
30°-40°	1834.0	15.5
40°-50°	2930.8	24.8
50°-60°	3140.4	26.5
60°-70°	1612.4	13.6
70°-80°	244.2	2.1
80°-90°	15.9	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°	11834.0	100.0
0°-180°	11834.0	100.0

**Coefficient of Utilization**

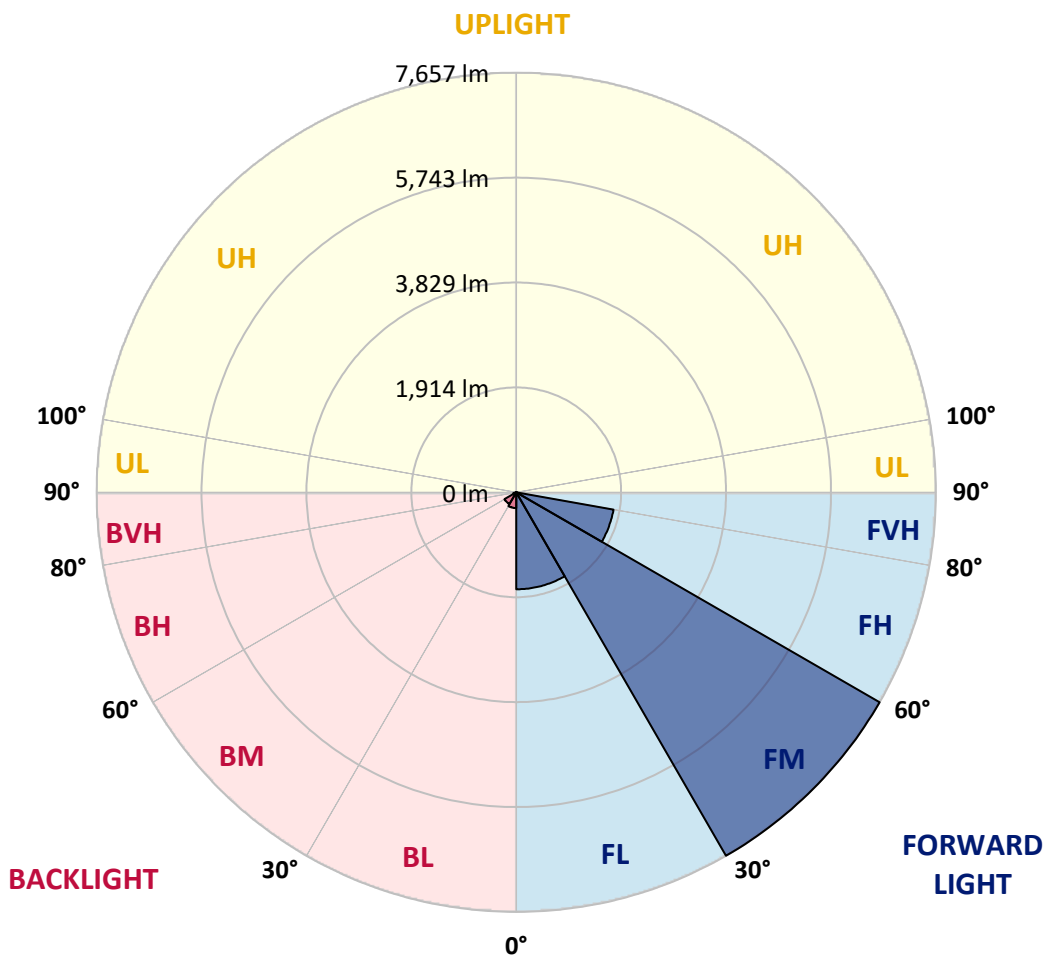


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1769.0	14.9			
FM (30°-60°)	7657.1	64.7			
FH (60°-80°)	1802.2	15.2			G2/5000
FVH (80°-90°)	15.3	0.1			G1/100
BL (0°-30°)	287.3	2.4	B1/500		
BM (30°-60°)	248.1	2.1	B1/1000		
BH (60°-80°)	54.4	0.5	B0/110		G0/110
BVH (80°-90°)	0.6	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°	2650.3	2650.3	2650.3	2650.3	2650.3	2650.3	2650.3	2650.3	2650.3	2650.3	2650.3
2.5°	3326.0	3276.4	3277.9	3255.4	3173.2	3108.8	3041.8	3026.0	2921.7	2812.3	2707.1
5°	3900.9	3864.6	3855.9	3812.5	3698.0	3576.9	3447.1	3416.9	3213.0	2989.2	2768.9
7.5°	4196.3	4196.8	4189.6	4173.8	4102.3	3984.7	3826.3	3794.6	3517.1	3181.3	2833.3
10°	4110.4	4129.9	4169.7	4222.4	4277.0	4262.2	4143.1	4114.5	3813.0	3384.7	2904.8
12.5°	3910.1	3912.7	3957.1	4043.5	4200.9	4362.4	4364.4	4354.7	4095.6	3597.3	2983.6
15°	3810.4	3820.2	3836.5	3892.2	4041.4	4300.0	4485.0	4498.8	4354.7	3823.2	3067.4
17.5°	3875.9	3889.7	3875.9	3882.5	3968.9	4201.4	4506.0	4541.3	4581.1	4046.5	3146.6
20°	4053.2	4066.0	4041.4	4014.4	4031.2	4172.8	4491.2	4538.7	4758.5	4244.8	3213.0
22.5°	4292.4	4297.5	4260.2	4215.7	4203.4	4269.9	4503.4	4552.5	4900.5	4424.2	3254.9
25°	4555.6	4560.2	4513.7	4462.5	4433.4	4460.5	4604.1	4640.9	5025.7	4595.4	3278.9
27.5°	4842.3	4846.4	4788.1	4725.2	4691.5	4692.5	4770.2	4809.6	5159.1	4790.6	3298.4
30°	5145.3	5143.3	5089.6	5002.2	4959.3	4958.3	5009.4	5049.2	5352.3	5041.1	3324.9
32.5°	5485.7	5481.6	5405.4	5297.1	5248.6	5255.7	5301.2	5324.2	5592.0	5307.8	3372.5
35°	5933.9	5922.1	5807.1	5672.7	5583.3	5580.7	5619.1	5637.5	5897.6	5630.8	3451.7
37.5°	6515.5	6504.7	6348.9	6153.6	6027.9	5980.9	6026.4	6049.9	6333.5	6045.3	3578.9
40°	7088.9	7078.1	6985.6	6806.8	6613.1	6500.1	6535.9	6560.9	6877.8	6548.2	3739.4
42.5°	7484.4	7493.6	7525.8	7540.6	7359.2	7122.1	7138.4	7164.5	7449.7	7085.8	3922.9
45°	7588.7	7608.6	7790.6	8147.8	8215.8	8030.7	7859.5	7873.9	8030.7	7623.4	4106.3
47.5°	7275.4	7312.2	7663.3	8327.7	8903.1	9034.0	8709.9	8691.0	8588.3	8058.3	4236.7
50°	6563.5	6597.2	7052.1	8034.8	9111.6	9991.7	9729.0	9673.3	9077.4	8318.5	4282.7
52.5°	5533.2	5574.1	5943.6	7112.9	8718.6	10418.9	10693.9	10647.4	9436.2	8338.9	4290.3
55°	3907.5	3957.1	4348.1	5451.4	7473.2	10079.1	11035.8	11022.0	9734.1	8284.7	4306.7
57.5°	2196.0	2231.8	2653.4	3494.6	5473.4	8778.9	10678.5	10770.0	9914.0	8190.7	4331.2
60°	975.1	984.8	1203.0	1739.6	3204.3	6709.2	9655.9	9810.2	9759.7	8065.0	4372.6
62.5°	540.7	532.5	532.5	723.1	1392.6	4153.4	7873.9	8128.9	9100.9	7916.3	4374.6
65°	423.7	416.0	394.0	397.1	530.5	1843.4	5452.5	5905.8	7849.8	7480.3	4227.5
67.5°	359.3	352.6	330.7	322.0	329.6	608.2	2995.8	3466.5	5956.4	6347.3	3661.7
70°	303.6	299.0	287.7	277.0	257.6	300.5	1146.3	1466.2	3670.4	4222.4	2499.6
72.5°	244.3	242.2	246.3	237.1	213.6	200.3	392.0	474.8	1648.7	1884.3	1029.8
75°	210.6	209.5	211.6	202.4	175.8	139.5	199.3	217.7	465.1	461.0	208.5
77.5°	137.0	138.5	175.3	171.2	151.3	93.0	103.2	111.4	141.1	105.8	63.4
80°	87.4	86.4	88.9	142.1	135.9	71.0	51.6	54.2	68.0	52.1	30.7
82.5°	53.1	52.1	58.3	66.4	68.5	49.6	31.7	32.2	42.4	33.7	16.4
85°	4.6	6.1	35.3	32.7	23.5	15.3	15.3	16.4	22.5	19.9	9.2
87.5°	0.0	0.0	6.1	9.2	5.1	5.6	5.6	6.1	8.7	8.7	4.6
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°	2650.3	2650.3	2650.3	2650.3	2650.3	2650.3	2650.3	2650.3	2650.3	2650.3	2650.3
2.5°	2652.4	2599.2	2491.9	2388.7	2301.3	2217.0	2120.9	2025.8	1981.4	1963.5	1945.1
5°	2657.0	2547.6	2326.3	2103.5	1872.5	1664.5	1487.2	1305.2	1214.3	1174.4	1156.0
7.5°	2663.1	2496.5	2138.8	1764.7	1392.6	1110.5	864.2	705.8	637.3	626.6	600.0
10°	2664.1	2434.7	1921.1	1390.6	933.7	669.5	515.1	433.4	403.2	398.1	389.4
12.5°	2666.2	2361.6	1679.3	1029.8	622.5	447.7	372.6	345.5	337.3	336.8	336.8
15°	2672.3	2284.9	1428.4	742.1	447.2	354.7	327.1	316.3	313.3	314.8	314.3
17.5°	2672.3	2194.5	1182.1	553.0	361.3	318.9	303.6	296.4	295.4	296.9	297.4
20°	2652.9	2084.6	956.2	430.3	320.4	295.9	282.1	275.5	272.9	273.9	274.4
22.5°	2606.4	1949.7	772.2	356.2	293.3	274.9	260.1	249.9	245.8	246.3	246.3
25°	2533.8	1789.7	604.1	308.2	271.4	252.5	235.1	223.3	220.8	220.3	221.3
27.5°	2440.8	1612.9	480.9	271.4	245.3	227.4	210.0	200.3	198.3	198.8	199.3
30°	2349.3	1429.4	379.2	240.2	216.2	199.3	186.0	181.4	181.4	183.0	183.5
32.5°	2265.5	1253.1	300.0	213.1	190.1	174.8	167.1	166.6	169.2	170.2	170.7
35°	2193.5	1090.1	248.4	192.2	169.7	156.4	153.8	155.9	158.9	161.0	161.5
37.5°	2142.4	944.4	217.2	174.8	153.8	143.1	142.6	146.7	150.8	155.4	156.4
40°	2120.9	821.3	195.7	159.4	141.1	132.9	131.3	137.0	144.6	151.3	152.3
42.5°	2103.0	720.6	177.3	144.6	130.8	119.1	118.6	125.7	134.9	141.6	143.1
45°	2087.7	639.8	160.5	128.8	117.5	102.2	103.7	112.9	120.1	127.3	128.8
47.5°	2056.0	573.4	142.1	111.9	97.1	87.4	90.5	98.6	104.3	115.0	116.5
50°	1999.3	519.2	123.2	91.5	79.2	75.6	80.2	85.9	93.0	102.2	103.2
52.5°	1960.9	478.3	106.8	76.7	65.4	66.4	71.0	73.1	77.2	80.7	79.7
55°	1938.9	455.9	93.5	66.4	55.7	58.8	59.8	57.2	55.2	51.6	50.1
57.5°	1936.4	435.4	83.3	57.7	49.1	50.6	47.0	38.3	31.2	27.1	26.1
60°	1932.3	410.4	75.1	48.6	43.4	41.4	33.7	21.0	14.8	13.8	13.8
62.5°	1887.8	371.5	69.0	40.9	36.8	31.2	19.4	9.7	8.2	8.7	8.7
65°	1746.3	317.4	62.9	33.2	29.1	22.5	9.7	5.6	3.1	3.6	3.6
67.5°	1484.6	253.0	56.2	25.6	22.0	14.3	5.6	2.6	0.0	0.0	0.0
70°	994.0	156.9	47.5	17.9	14.3	8.7	4.1	0.5	0.0	0.0	0.0
72.5°	381.2	84.8	38.3	10.7	9.2	6.1	2.6	0.0	0.0	0.0	0.0
75°	85.9	55.7	26.6	7.7	6.6	4.1	1.0	0.0	0.0	0.0	0.0
77.5°	32.7	40.4	15.3	5.1	4.6	2.6	0.0	0.0	0.0	0.0	0.0
80°	15.8	24.0	7.2	3.1	2.6	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.2	9.2	3.1	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.6	4.6	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	1.5	0.5	0.5	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)