

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: P191740

Luminaire Tested: **GAN-AF-02-LED-U-AFL-7050-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191740  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-02-LED-U-AFL-7050-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 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: 10937 lumens  
Efficiency: N/A  
Efficacy: 84.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

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: 28.75 FT

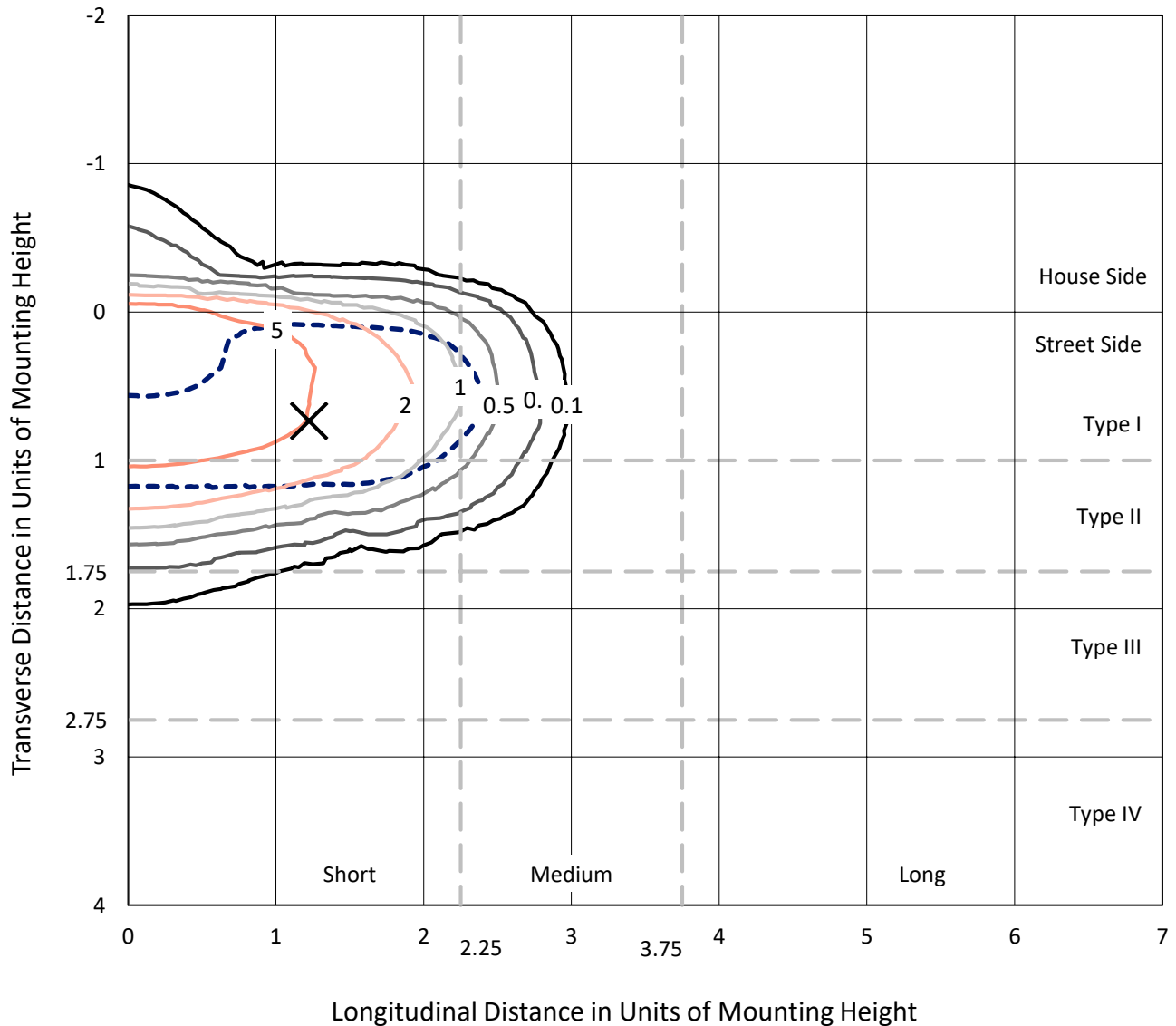


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

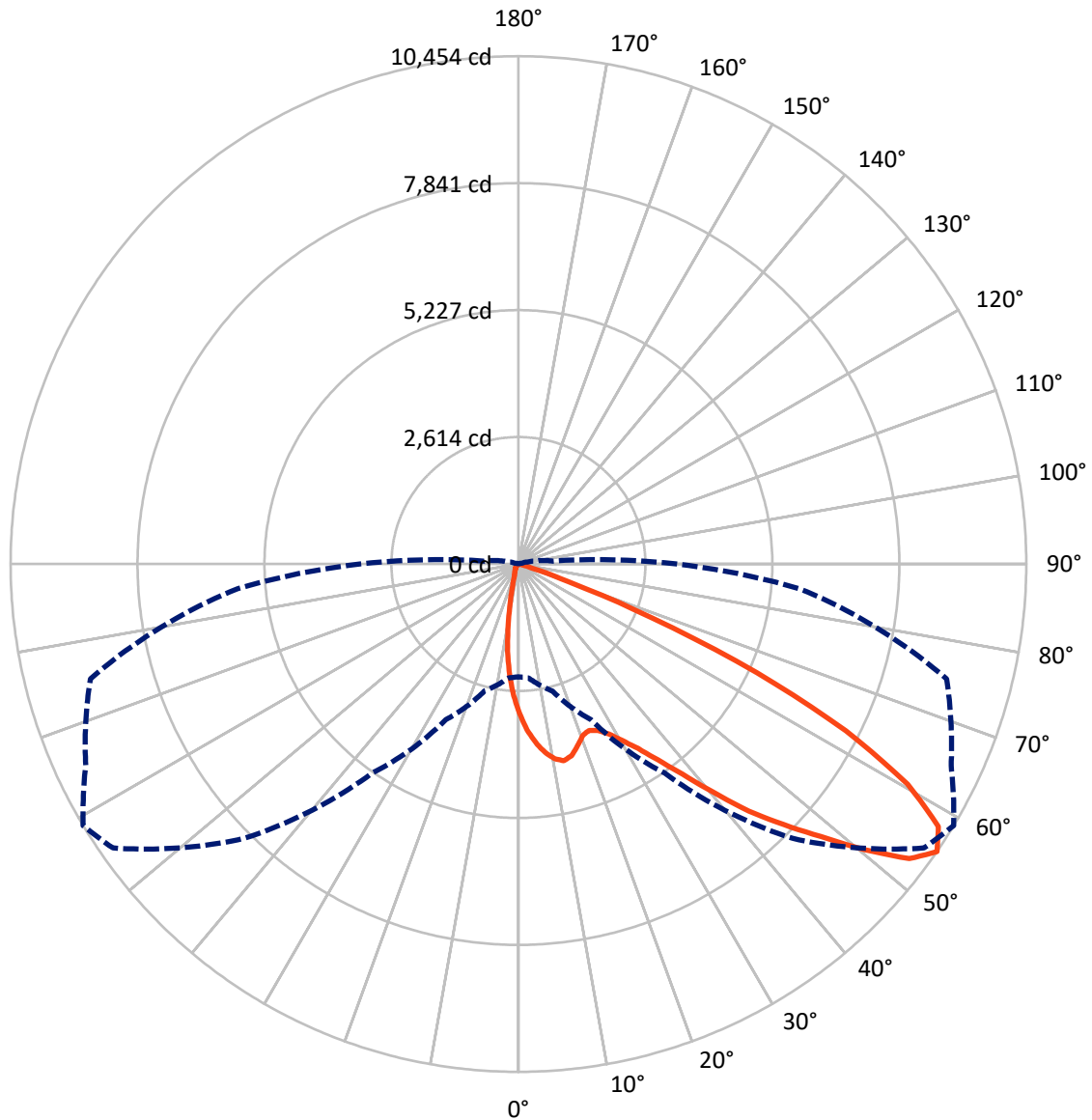


Based on 20 foot mounting height. Maximum calculated value = 9.6 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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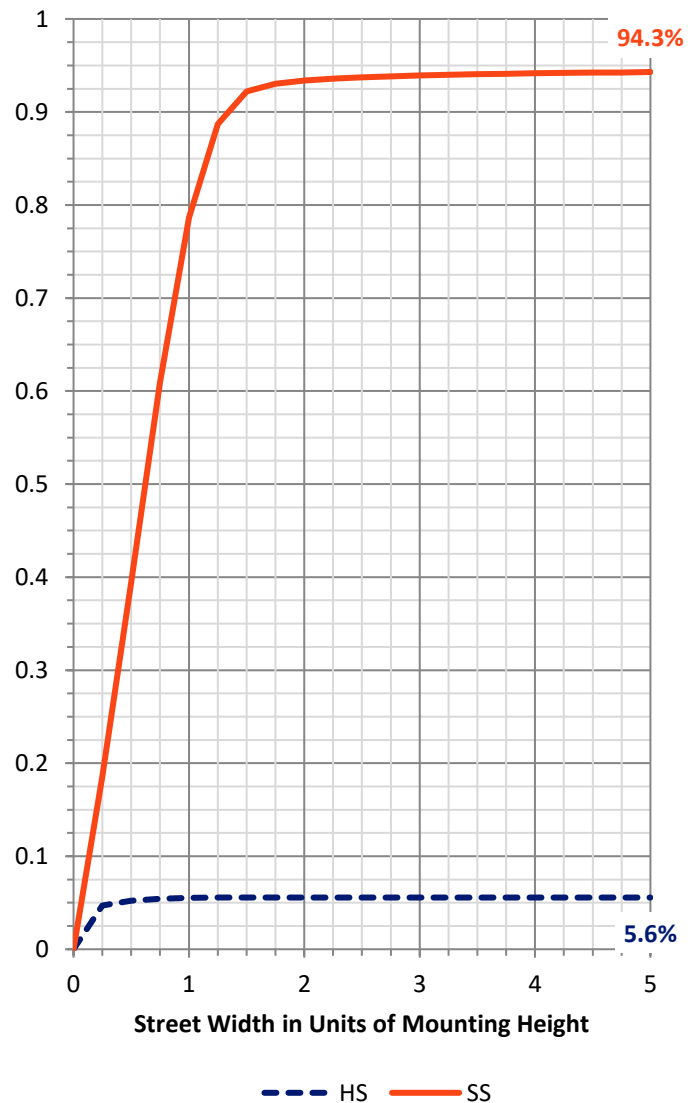
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	610.9	0.0	610.9
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	10326.1	0.0	10326.1
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	10937.0	0.0	10937.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	257.9	2.4
10°-20°	617.4	5.6
20°-30°	1050.6	9.6
30°-40°	1806.8	16.5
40°-50°	2789.6	25.5
50°-60°	2804.4	25.6
60°-70°	1438.1	13.1
70°-80°	155.9	1.4
80°-90°	16.3	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°	10937.0	100.0
0°-180°	10937.0	100.0

**Coefficient of Utilization**



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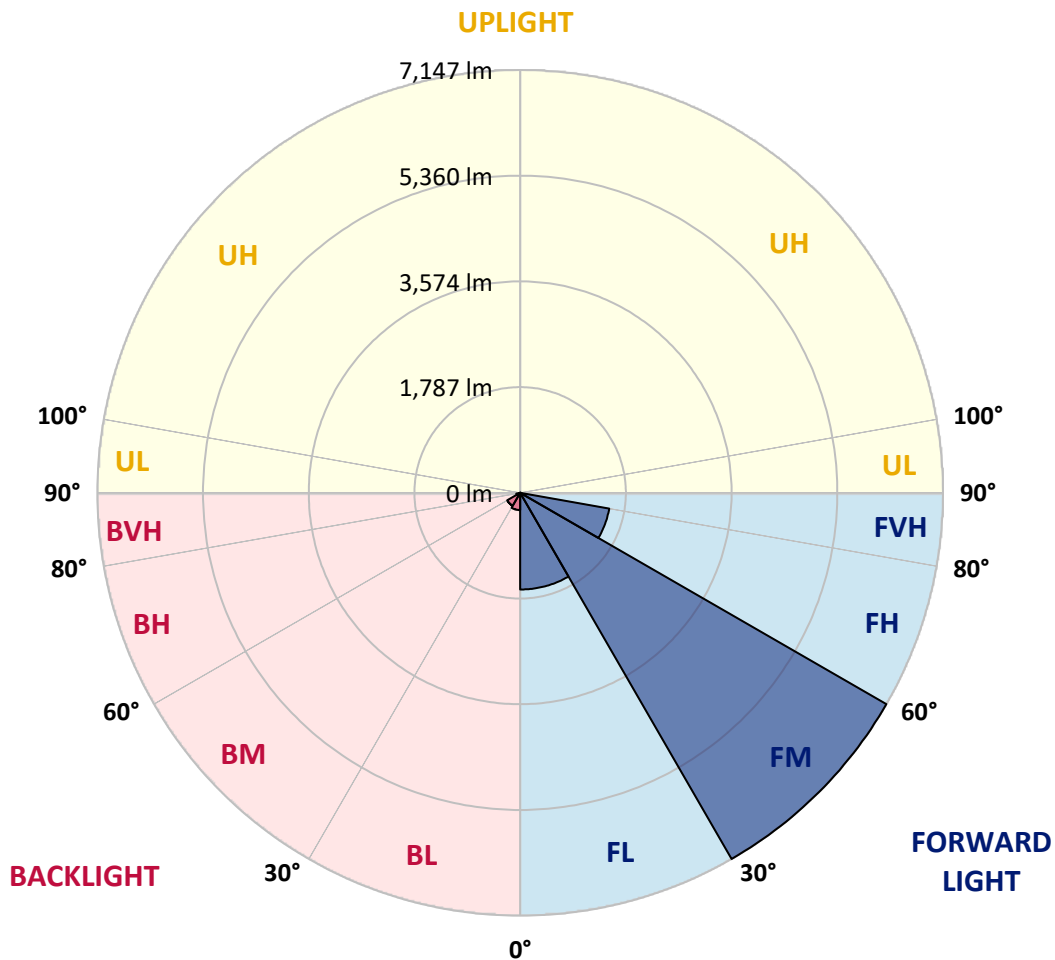
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1634.3	14.9			
FM	(30°-60°)	7147.3	65.3			
FH	(60°-80°)	1528.5	14.0			G1/1800
FVH	(80°-90°)	16.0	0.1			G1/100
BL	(0°-30°)	291.6	2.7	B1/500		
BM	(30°-60°)	253.5	2.3	B1/1000		
BH	(60°-80°)	65.4	0.6	B0/110		G0/110
BVH	(80°-90°)	0.3	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3078.7	3078.7	3078.7	3078.7	3078.7	3078.7	3078.7	3078.7	3078.7	3078.7	3078.7
2.5°	3642.8	3604.1	3592.5	3584.7	3549.2	3504.7	3444.0	3415.6	3357.6	3264.0	3149.1
5°	3976.5	3969.4	3943.6	3929.4	3891.3	3828.1	3731.3	3684.8	3592.5	3435.0	3229.1
7.5°	3830.7	3875.2	3910.7	3970.1	4044.9	4042.4	3961.0	3912.6	3809.4	3601.5	3318.2
10°	3267.2	3303.3	3361.4	3496.3	3771.3	4014.0	4109.5	4074.6	3992.0	3754.5	3404.0
12.5°	3156.8	3153.0	3163.3	3202.6	3346.6	3692.5	4084.3	4154.7	4137.9	3894.6	3485.4
15°	3215.6	3211.0	3209.7	3223.3	3258.2	3404.0	3895.2	4097.2	4227.0	4024.3	3554.4
17.5°	3380.1	3360.8	3350.5	3339.5	3329.2	3365.3	3668.0	3936.5	4240.5	4137.9	3611.9
20°	3662.2	3629.9	3591.8	3529.9	3471.8	3453.7	3572.5	3771.3	4192.1	4224.4	3649.3
22.5°	4016.5	3975.2	3909.4	3796.4	3678.3	3609.9	3619.6	3719.0	4119.8	4318.6	3666.7
25°	4414.8	4361.9	4274.1	4117.2	3943.6	3822.3	3759.0	3793.9	4086.9	4429.0	3686.7
27.5°	4841.4	4782.7	4667.8	4454.1	4257.3	4093.4	3964.3	3959.7	4143.0	4573.6	3719.0
30°	5264.2	5255.1	5105.4	4879.5	4618.7	4419.3	4233.4	4209.5	4299.9	4773.6	3782.9
32.5°	5828.3	5760.5	5577.2	5344.8	5044.1	4804.6	4584.5	4529.0	4540.6	5006.6	3881.6
35°	6539.5	6465.3	6207.2	5886.4	5550.1	5267.4	5024.1	4948.6	4920.2	5388.1	4048.2
37.5°	6999.1	6997.8	6835.8	6509.2	6148.4	5836.7	5572.0	5483.6	5426.2	5848.9	4306.3
40°	7011.4	7041.7	7063.0	7059.8	6802.9	6515.7	6280.7	6171.7	6038.0	6464.7	4640.0
42.5°	6635.1	6713.2	6901.0	7219.8	7372.2	7257.9	7059.8	6952.6	6753.8	7123.7	5046.7
45°	6126.5	6180.7	6509.2	7096.6	7680.7	7993.7	7842.7	7651.0	7388.9	7811.1	5411.3
47.5°	5898.6	5908.3	6120.7	6765.5	7703.9	8596.6	8688.2	8376.5	7966.0	8364.8	5696.6
50°	5217.7	5235.1	5528.2	6191.7	7431.5	8881.2	9537.6	9242.0	8595.3	8791.5	5800.5
52.5°	3932.6	3957.2	4328.9	5248.7	6682.8	8759.8	10145.6	10074.0	9284.6	8999.9	5806.3
55°	2320.3	2352.6	2707.6	3533.1	5256.4	7987.9	10190.8	10454.1	9828.7	9123.2	5797.3
57.5°	1083.7	1106.3	1309.6	1820.1	3269.1	6313.0	9510.5	10193.4	10128.8	9188.4	5861.2
60°	575.7	582.2	631.2	788.1	1477.4	4003.0	8182.8	9204.6	9855.2	9278.8	5939.3
62.5°	440.2	442.1	439.5	458.3	620.9	1776.9	6185.2	7567.1	8753.4	9211.0	5852.8
65°	381.5	384.7	366.6	362.1	398.2	633.8	3674.5	5393.9	6878.4	8296.4	5263.5
67.5°	342.1	343.4	321.4	302.7	309.2	342.7	1449.6	2952.9	4552.9	6081.3	3815.2
70°	315.0	313.7	289.8	260.1	251.7	234.3	460.8	1082.4	2175.8	3083.9	1774.3
72.5°	278.8	279.5	267.9	229.1	209.1	163.9	213.6	315.6	649.3	840.4	415.7
75°	247.2	244.0	229.8	205.2	172.3	107.8	105.9	140.7	200.1	198.8	89.7
77.5°	178.8	175.6	180.1	168.5	132.3	69.7	52.9	67.8	81.3	78.7	25.2
80°	131.0	129.1	116.2	140.1	116.8	47.8	32.9	36.1	42.0	35.5	7.7
82.5°	89.7	89.1	82.0	77.5	66.5	29.0	20.7	22.6	27.1	20.0	3.9
85°	14.2	16.1	59.4	47.1	39.4	12.9	14.2	15.5	18.1	11.0	1.3
87.5°	0.0	0.0	27.8	24.5	7.7	5.2	8.4	9.0	9.0	5.8	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3078.7	3078.7	3078.7	3078.7	3078.7	3078.7	3078.7	3078.7	3078.7	3078.7	3078.7
2.5°	3090.3	3025.8	2906.4	2783.1	2668.9	2532.7	2439.1	2368.7	2287.4	2265.5	2313.2
5°	3111.6	2989.7	2732.8	2453.3	2190.6	1899.5	1676.8	1500.6	1341.2	1287.0	1336.1
7.5°	3145.2	2963.8	2545.0	2084.8	1627.8	1173.4	862.3	657.7	527.3	488.6	509.2
10°	3178.8	2926.4	2327.4	1648.4	1023.7	571.2	371.8	296.9	269.1	263.3	266.6
12.5°	3206.5	2876.1	2062.2	1172.1	547.3	305.9	243.3	231.1	227.2	227.2	228.5
15°	3223.3	2799.9	1747.8	745.5	315.0	231.1	212.3	208.5	208.5	209.1	210.4
17.5°	3221.4	2703.1	1403.8	451.2	235.6	204.6	193.6	190.4	189.8	191.0	191.7
20°	3197.5	2576.6	1058.5	297.5	205.2	186.5	175.6	169.7	169.1	170.4	171.7
22.5°	3152.3	2420.4	757.1	229.1	185.2	169.1	155.5	150.4	150.4	151.7	153.0
25°	3097.4	2229.3	517.6	194.3	167.2	150.4	137.5	133.0	134.3	137.5	138.1
27.5°	3029.0	2014.4	351.8	166.5	145.2	131.7	122.0	118.8	122.0	126.5	127.8
30°	2970.3	1790.4	251.1	143.9	123.3	113.6	107.8	107.8	112.3	120.7	122.6
32.5°	2925.1	1573.6	193.6	127.2	107.1	98.8	95.5	98.8	105.9	114.2	116.2
35°	2919.3	1394.8	163.9	113.6	95.5	87.1	85.8	91.7	98.8	105.2	106.5
37.5°	2963.8	1229.6	147.8	102.6	85.2	77.5	76.2	83.3	90.4	98.1	100.0
40°	3048.4	1099.8	136.2	92.3	76.8	68.4	65.8	71.0	80.7	91.0	93.6
42.5°	3158.1	992.7	123.3	82.0	68.4	56.8	53.6	59.4	69.7	80.7	83.9
45°	3262.7	900.4	109.1	70.4	57.4	43.9	42.6	50.3	55.5	66.5	69.1
47.5°	3320.1	819.1	96.8	57.4	44.5	35.5	35.5	37.4	42.6	55.5	58.1
50°	3300.8	753.9	83.9	42.6	31.0	27.1	27.1	26.5	34.2	44.5	46.5
52.5°	3262.0	716.4	72.3	32.9	21.3	19.4	17.4	19.4	23.9	28.4	29.0
55°	3256.2	710.0	60.7	26.5	14.8	12.9	9.7	9.7	9.7	9.0	7.7
57.5°	3301.4	720.3	51.0	21.3	11.0	8.4	5.2	0.0	0.0	0.0	0.0
60°	3347.9	731.3	43.9	14.8	7.7	4.5	0.6	0.0	0.0	0.0	0.0
62.5°	3270.4	706.8	36.8	9.0	5.8	1.9	0.0	0.0	0.0	0.0	0.0
65°	2872.8	601.5	29.0	6.5	3.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2043.4	402.8	19.4	3.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	932.7	168.5	12.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	199.4	52.3	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	40.7	38.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.9	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	7.7	43.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.3	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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)