

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: P481854

Luminaire Tested: **IFLD-L-SA8C-830-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481854  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-830-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2  
distribution lens with House Side Shield  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

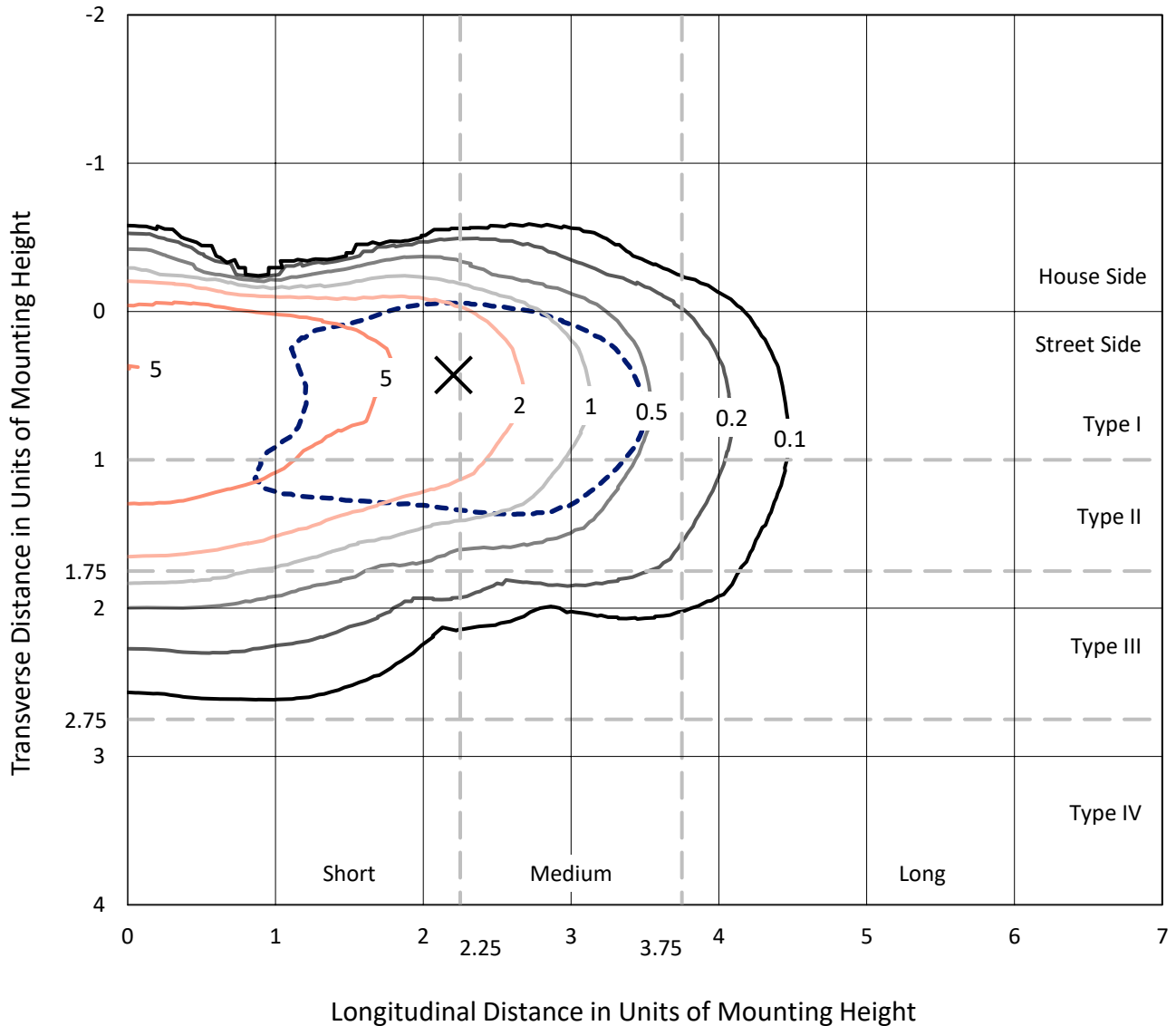
Lumens per Lamp: N/A  
Luminaire Lumens: 28991 lumens  
Efficiency: N/A  
Efficacy: 69.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 420.3  
Input Voltage (V): 120  
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

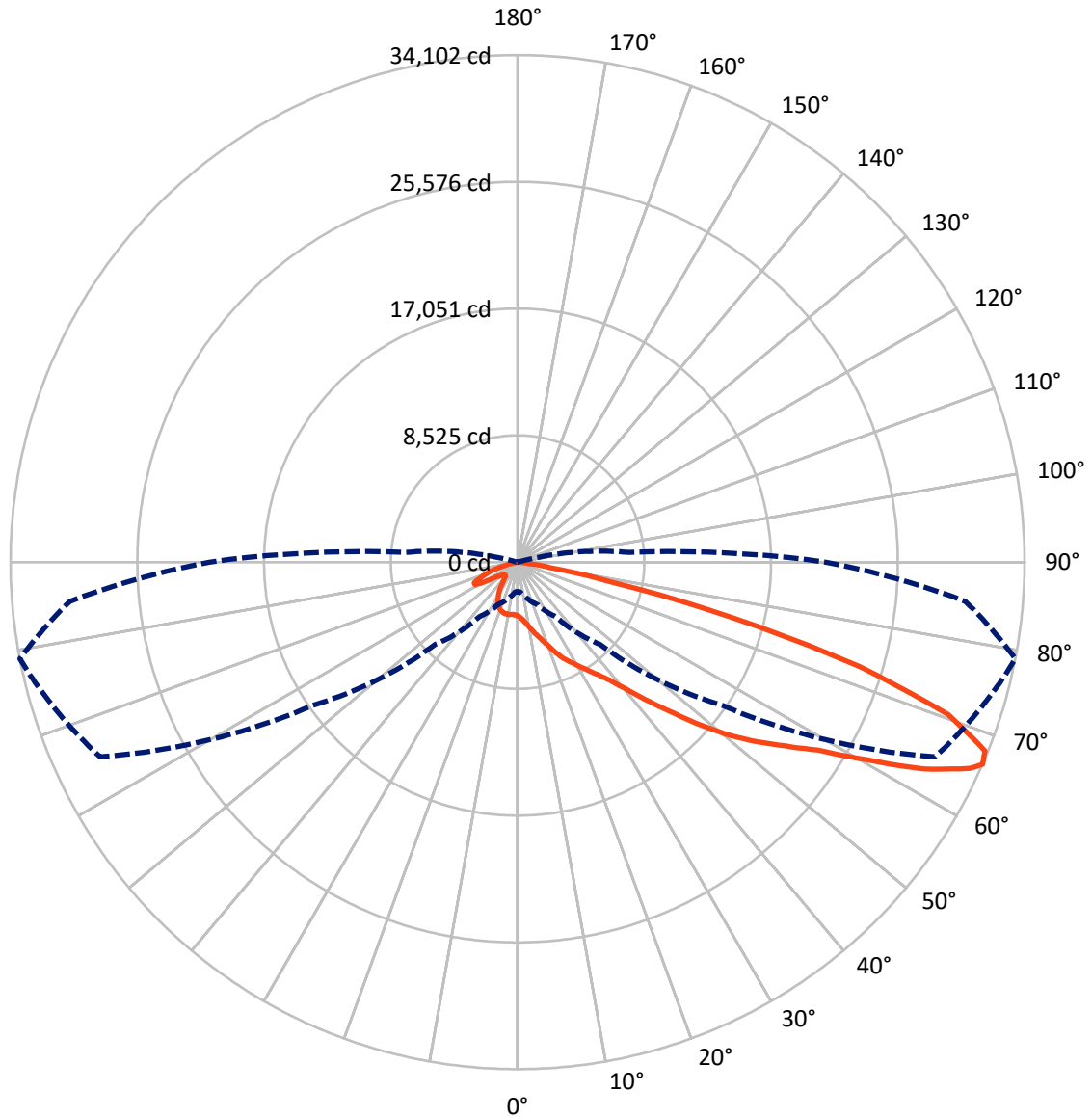
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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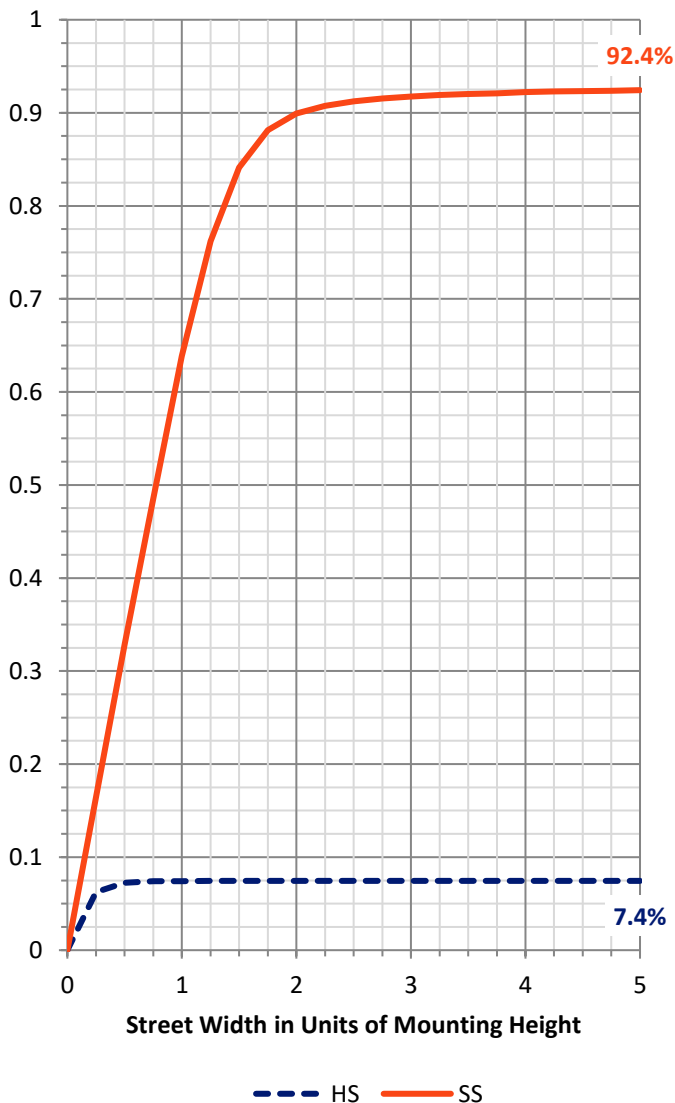
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2176.8	0.0	2176.8
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	26814.2	0.0	26814.2
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	28991.0	0.0	28991.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	341.1	1.2
10°-20°	938.8	3.2
20°-30°	1559.5	5.4
30°-40°	2678.7	9.2
40°-50°	4852.8	16.7
50°-60°	7670.9	26.5
60°-70°	7805.7	26.9
70°-80°	2976.7	10.3
80°-90°	166.9	0.6
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°	28991.0	100.0
0°-180°	28991.0	100.0

**Coefficient of Utilization**



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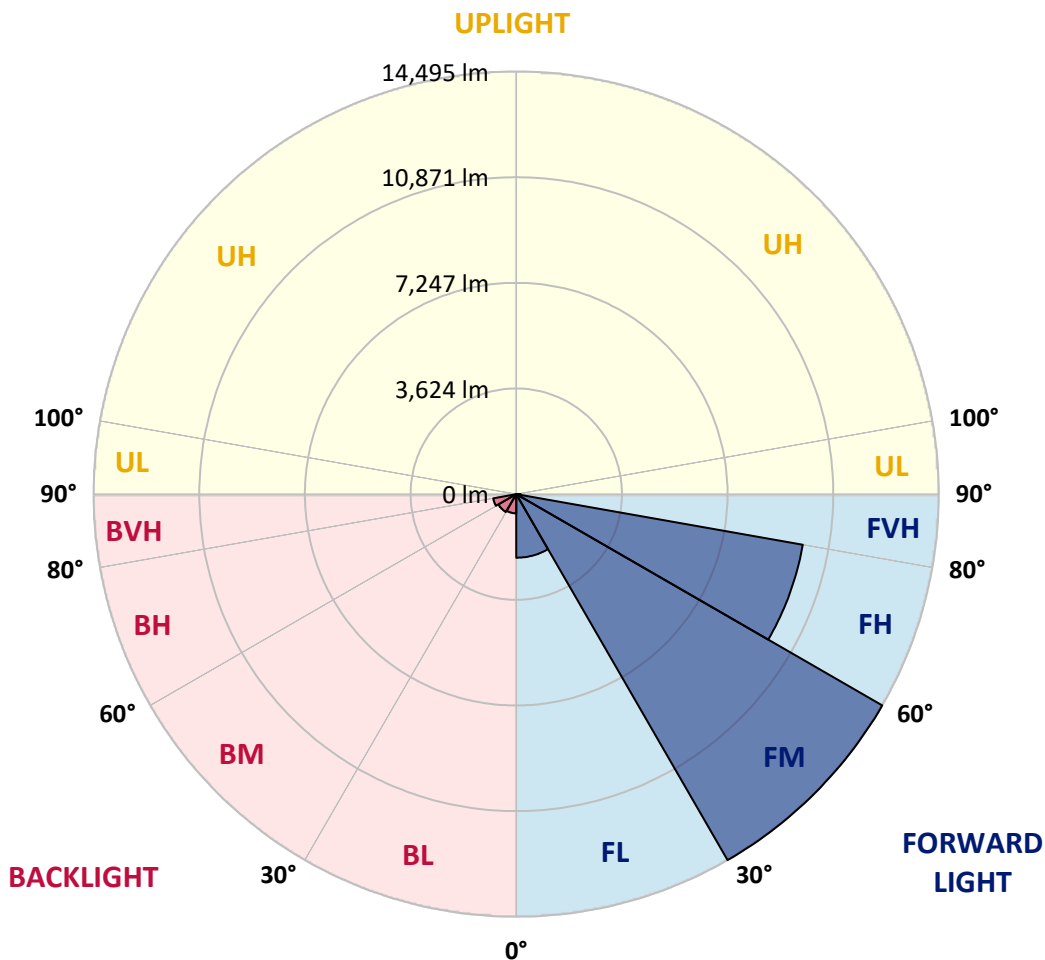
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2181.1	7.5			
FM (30°-60°)	14494.9	50.0			
FH (60°-80°)	9979.9	34.4			G4/12000
FVH (80°-90°)	158.4	0.5			G2/225
BL (0°-30°)	658.3	2.3	B2/1000		
BM (30°-60°)	707.5	2.4	B1/1000		
BH (60°-80°)	802.5	2.8	B2/1000		G2/1000
BVH (80°-90°)	8.5	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3606.8	3606.8	3606.8	3606.8	3606.8	3606.8	3606.8	3606.8	3606.8	3606.8	3606.8
2.5°	4085.1	4080.6	4062.7	4031.4	3991.2	3977.8	3919.7	3839.2	3794.5	3745.4	3723.0
5°	4366.6	4344.3	4397.9	4375.6	4384.5	4277.2	4205.7	4147.6	3977.8	3910.8	3803.5
7.5°	4429.2	4451.6	4447.1	4482.8	4518.6	4558.8	4509.7	4424.7	4254.9	4156.6	4040.4
10°	4429.2	4420.3	4456.0	4505.2	4608.0	4697.4	4831.5	4719.7	4590.1	4473.9	4263.8
12.5°	4348.8	4335.4	4371.1	4473.9	4657.1	4840.4	4987.9	5095.2	4911.9	4818.0	4545.4
15°	4102.9	4089.5	4237.0	4420.3	4661.6	4961.1	5269.5	5443.8	5318.6	5171.1	4867.2
17.5°	3799.0	3816.9	3973.3	4277.2	4661.6	5019.2	5412.5	5792.4	5774.5	5586.8	5269.5
20°	3696.2	3709.6	3866.1	4085.1	4523.1	5059.4	5636.0	6172.3	6279.6	6056.1	5640.4
22.5°	3892.9	3879.5	3892.9	4027.0	4429.2	5023.6	5783.4	6605.8	6798.0	6623.7	6127.6
25°	4563.3	4554.4	4442.6	4237.0	4375.6	4943.2	5859.4	6891.9	7334.3	7173.4	6520.9
27.5°	5546.6	5510.8	5336.5	4907.4	4625.9	4992.4	5984.6	7169.0	7803.6	7620.4	6874.0
30°	6601.4	6516.4	6288.5	5752.2	5273.9	5175.6	6056.1	7374.6	8326.6	8094.1	7182.4
32.5°	7329.9	7441.6	7370.1	6824.8	6091.8	5600.2	6172.3	7633.8	8809.3	8657.3	7709.8
35°	8456.2	8585.8	8286.3	7803.6	7066.2	6275.1	6418.1	7843.9	9551.2	9296.4	8201.4
37.5°	9877.4	9975.8	9761.2	8845.0	8067.3	7106.4	6923.2	8281.9	10190.3	10069.6	8831.6
40°	10592.6	11066.3	10762.4	9935.5	9099.8	8268.5	7758.9	8795.8	11303.2	11204.9	9703.1
42.5°	11580.3	11817.2	11660.8	11048.4	10176.9	9511.0	8791.4	9797.0	12653.0	12653.0	10883.1
45°	12626.1	12635.1	12626.1	12125.6	11352.4	11008.2	10185.8	11052.9	14105.5	14266.4	12295.4
47.5°	13484.3	13752.4	13730.1	13430.6	12831.7	12702.1	11580.3	12483.1	15929.1	16210.6	13672.0
50°	13926.8	14226.2	14315.6	14472.0	14445.2	14717.8	13104.4	14141.3	17502.3	18195.1	15441.9
52.5°	13806.1	13828.4	14378.2	14994.9	15978.2	16742.5	14941.3	16022.9	19343.7	20027.5	16809.5
55°	12818.3	12733.4	13864.2	14570.4	16603.9	17980.5	17484.4	18369.4	20778.4	21819.8	18221.9
57.5°	10650.7	10673.0	11718.9	13153.5	16139.1	18472.2	20201.8	21435.4	22789.6	23840.0	20206.3
60°	7352.2	7325.4	8496.4	10154.6	13408.3	17555.9	21766.1	25408.7	25480.2	26968.6	23768.4
62.5°	4134.2	4143.2	5032.6	6449.4	9381.3	14346.9	21690.2	29627.9	29324.0	30629.0	27817.8
65°	2342.0	2400.1	3012.4	3821.4	5618.1	9631.6	18655.4	31308.4	32287.2	33449.2	30275.9
66°	1980.0	2020.2	2543.1	3155.4	4482.8	7812.6	16791.7	30982.1	33216.8	34101.8	30226.8
67.5°	1533.0	1586.6	2024.7	2502.9	3289.5	5408.0	13515.6	29359.7	33386.7	33905.1	29373.1
70°	1050.3	1086.1	1421.3	1899.5	2248.1	2766.6	8080.7	24273.5	30293.8	30731.8	25529.4
72.5°	737.5	755.3	996.7	1439.2	1729.7	1582.2	4009.1	17269.9	23182.9	24036.6	19857.7
75°	531.9	549.7	683.8	1032.4	1349.8	1036.9	1836.9	11030.6	14217.3	14887.7	11960.2
77.5°	384.4	406.7	464.8	665.9	978.8	728.5	902.8	5761.1	6704.1	6587.9	5144.3
80°	232.4	254.8	344.1	429.1	715.1	514.0	496.1	2404.6	2377.7	2257.1	1617.9
82.5°	107.3	125.1	183.2	290.5	500.6	357.6	236.9	858.1	750.9	688.3	455.9
85°	31.3	40.2	107.3	219.0	254.8	174.3	143.0	295.0	308.4	263.7	152.0
87.5°	0.0	4.5	49.2	53.6	76.0	58.1	53.6	76.0	143.0	116.2	49.2
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°	3606.8	3606.8	3606.8	3606.8	3606.8	3606.8	3606.8	3606.8	3606.8	3606.8	3606.8
2.5°	3642.6	3611.3	3535.3	3419.1	3316.3	3262.7	3186.7	3119.7	3083.9	3079.4	3075.0
5°	3732.0	3647.1	3463.8	3253.7	3097.3	2927.5	2811.3	2726.4	2645.9	2569.9	2614.6
7.5°	3852.7	3718.6	3419.1	3146.5	2806.8	2587.8	2382.2	2261.5	2190.0	2123.0	2114.0
10°	4040.4	3870.5	3387.8	2896.2	2507.4	2185.6	1975.5	1801.2	1702.9	1586.6	1631.3
12.5°	4295.1	3991.2	3271.6	2668.3	2167.7	1828.0	1528.5	1247.0	1090.5	969.9	974.3
15°	4549.9	4152.1	3164.4	2391.1	1859.3	1412.3	974.3	782.2	737.5	710.6	719.6
17.5°	4800.2	4281.7	2999.0	2109.6	1506.2	898.4	710.6	670.4	648.1	621.3	621.3
20°	5104.1	4366.6	2793.4	1850.3	1036.9	665.9	607.8	581.0	545.3	509.5	514.0
22.5°	5399.1	4438.1	2556.5	1519.6	697.2	576.6	509.5	473.8	442.5	406.7	406.7
25°	5694.1	4460.5	2248.1	1090.5	563.1	460.4	397.8	348.6	317.3	286.0	290.5
27.5°	5895.2	4321.9	1957.6	697.2	451.4	348.6	277.1	236.9	210.1	178.8	178.8
30°	6011.4	4067.2	1644.8	491.6	339.7	236.9	165.4	125.1	98.3	76.0	71.5
32.5°	6127.6	3861.6	1291.7	375.4	223.5	125.1	62.6	22.3	0.0	0.0	0.0
35°	6360.0	3629.2	867.1	210.1	76.0	4.5	0.0	0.0	0.0	0.0	0.0
37.5°	6507.5	3307.4	397.8	31.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6878.5	3146.5	98.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7481.8	3034.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	8143.3	2990.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	9023.8	3110.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	9953.4	3437.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	10972.5	3745.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	11861.9	4116.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	13497.7	4992.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	16434.1	6713.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	19741.5	7991.3	49.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	20952.7	7960.1	84.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	20738.2	7522.1	84.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	19625.3	6681.8	76.0	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	16854.2	5519.7	76.0	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	12849.6	4299.6	71.5	17.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	7754.5	2288.3	58.1	22.3	8.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3088.4	804.5	44.7	17.9	8.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	835.8	241.3	26.8	17.9	13.4	4.5	0.0	0.0	0.0	0.0	0.0
82.5°	219.0	89.4	22.3	17.9	8.9	4.5	0.0	0.0	0.0	0.0	0.0
85°	84.9	35.8	17.9	13.4	13.4	8.9	4.5	0.0	0.0	0.0	0.0
87.5°	26.8	13.4	13.4	8.9	8.9	4.5	4.5	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)