

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: P484397

Luminaire Tested: **IFLD-S-SA3B-740-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484397  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-740-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (48) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

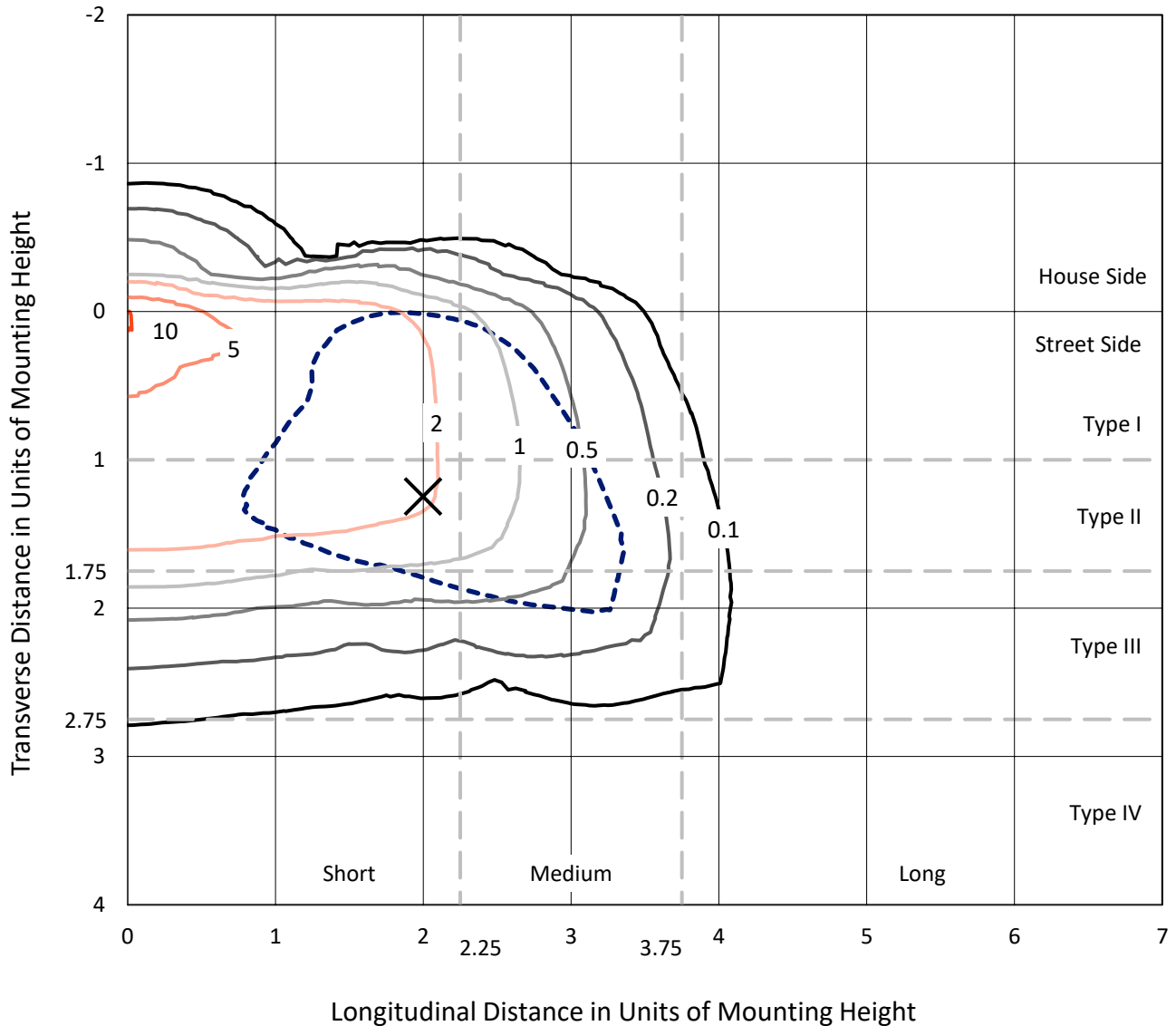
Lumens per Lamp: N/A  
Luminaire Lumens: 14230.3 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 122.4  
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

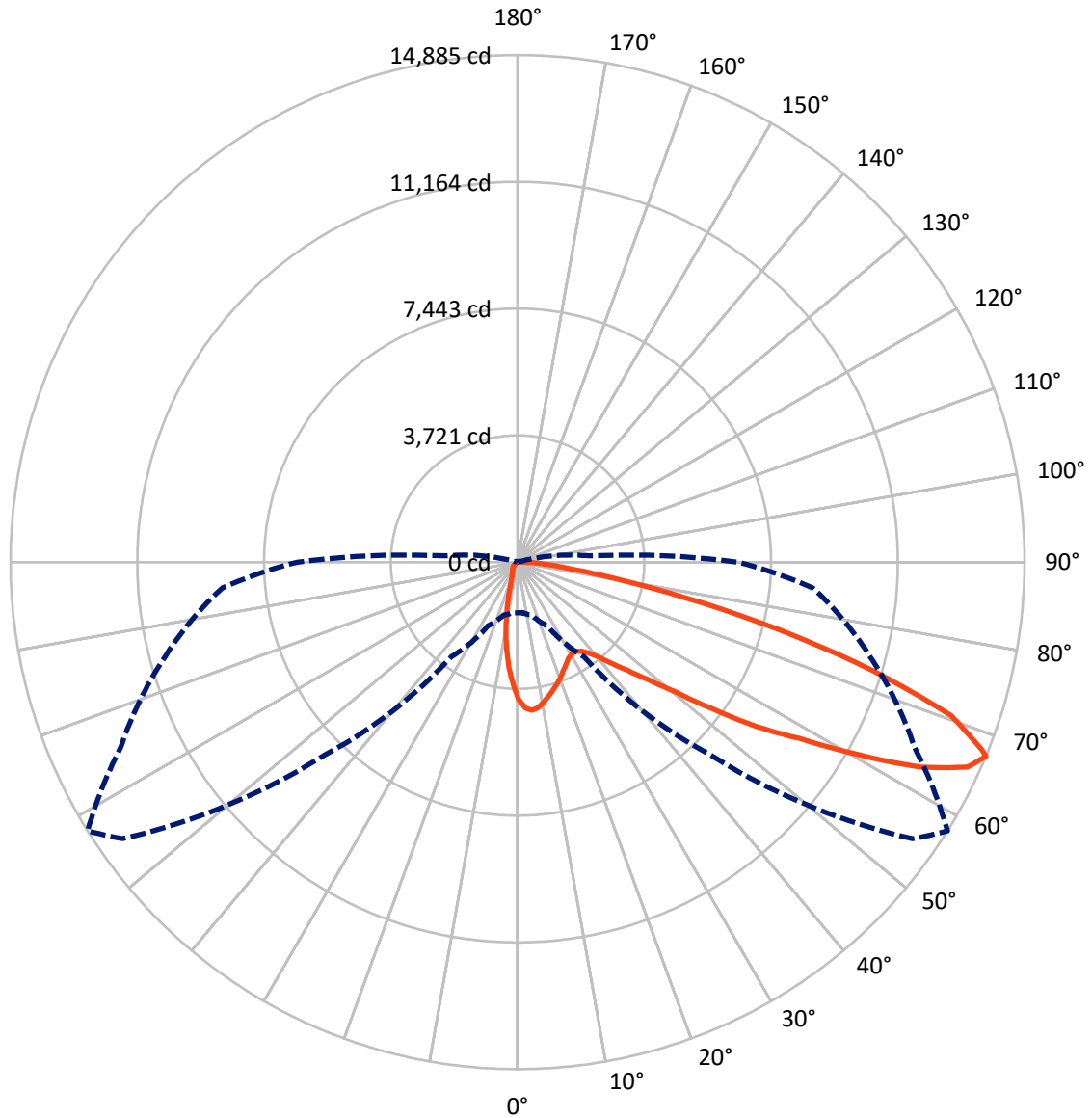
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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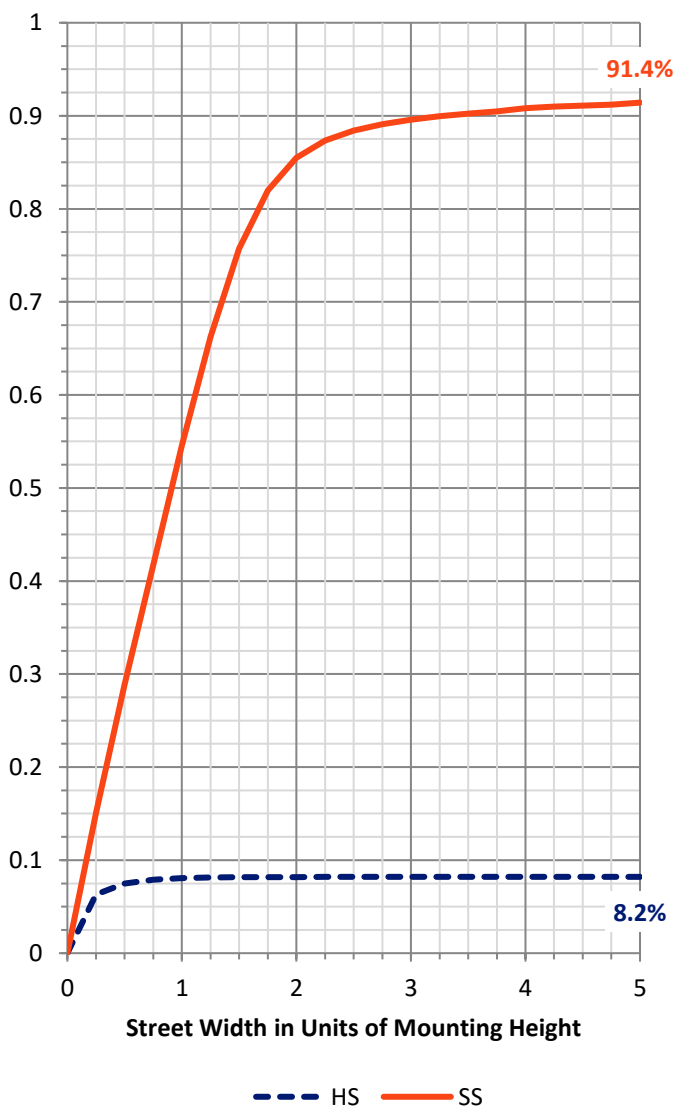
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1176.2	0.0	1176.2
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	13054.1	0.0	13054.1
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	14230.3	0.0	14230.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	319.9	2.2
10°-20°	663.5	4.7
20°-30°	880.3	6.2
30°-40°	1219.9	8.6
40°-50°	1990.5	14.0
50°-60°	3498.6	24.6
60°-70°	3875.0	27.2
70°-80°	1605.8	11.3
80°-90°	176.8	1.2
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°	14230.3	100.0
0°-180°	14230.3	100.0



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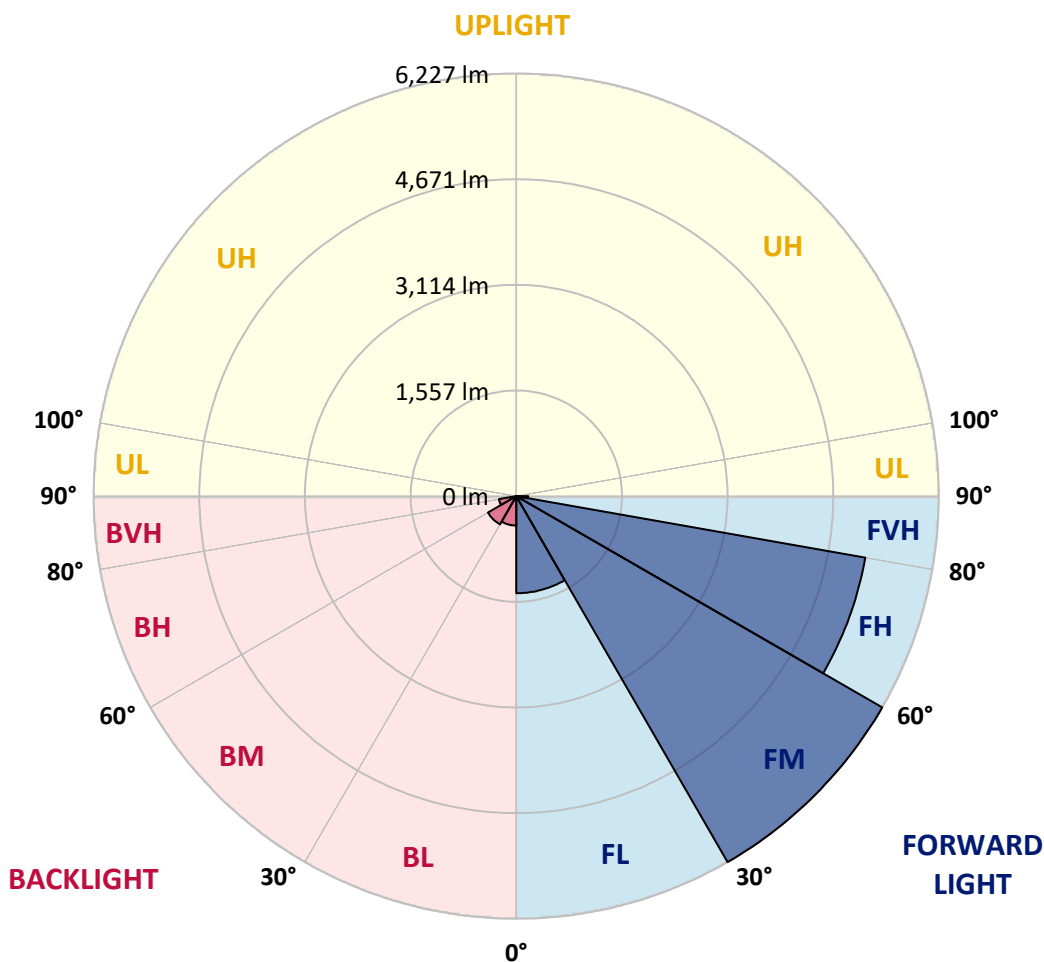
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1430.5	10.1			
FM (30°-60°)	6227.5	43.8			
FH (60°-80°)	5222.2	36.7			G3/7500
FVH (80°-90°)	173.9	1.2			G2/225
BL (0°-30°)	433.2	3.0	B1/500		
BM (30°-60°)	481.5	3.4	B1/1000		
BH (60°-80°)	258.6	1.8	B1/500		G1/500
BVH (80°-90°)	2.9	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4031.6	4031.6	4031.6	4031.6	4031.6	4031.6	4031.6	4031.6	4031.6	4031.6	4031.6
2.5°	4386.8	4401.9	4415.1	4390.6	4411.4	4381.1	4303.7	4286.7	4273.5	4158.2	4092.1
5°	4384.9	4367.9	4381.1	4392.5	4364.1	4386.8	4367.9	4369.8	4318.8	4214.9	4029.7
7.5°	4092.1	4084.5	4092.1	4146.9	4209.2	4258.3	4286.7	4315.0	4281.0	4126.1	3946.6
10°	3697.2	3735.0	3755.8	3854.0	3950.4	4041.1	4129.9	4182.8	4173.3	4111.0	3855.9
12.5°	3421.4	3410.1	3485.6	3549.9	3646.2	3829.5	3984.4	4033.5	4090.2	4003.3	3736.9
15°	3166.4	3136.1	3181.5	3292.9	3457.3	3602.8	3820.0	3893.7	3965.5	3988.2	3672.7
17.5°	2922.7	2937.8	2985.0	3085.1	3240.0	3444.1	3648.1	3753.9	3925.8	3895.6	3576.3
20°	2805.5	2837.6	2854.6	2905.6	3013.3	3217.4	3521.5	3606.6	3789.8	3893.7	3481.9
22.5°	2811.2	2811.2	2771.5	2801.7	2900.0	3058.7	3349.6	3444.1	3735.0	3795.5	3396.9
25°	2871.6	2833.9	2835.7	2799.9	2841.4	2928.3	3194.7	3309.9	3623.6	3804.9	3351.5
27.5°	2917.0	2909.4	2898.1	2888.6	2835.7	2849.0	3092.7	3187.1	3580.1	3793.6	3281.6
30°	3081.3	3047.3	3036.0	3015.2	2945.3	2881.1	3011.4	3130.5	3546.1	3820.0	3241.9
32.5°	3219.3	3224.9	3234.4	3173.9	3113.5	2954.8	3034.1	3128.6	3521.5	3880.5	3281.6
35°	3393.1	3417.6	3421.4	3402.5	3338.3	3181.5	3128.6	3209.8	3563.1	3988.2	3285.4
37.5°	3657.6	3631.1	3702.9	3710.5	3665.1	3457.3	3347.7	3379.8	3685.9	4160.1	3429.0
40°	3829.5	3861.6	3995.7	4078.9	4001.4	3812.5	3665.1	3659.5	3863.5	4430.3	3606.6
42.5°	4020.3	4092.1	4239.5	4418.9	4409.5	4233.8	4084.5	4060.0	4179.0	4821.3	3888.1
45°	4281.0	4345.2	4551.2	4821.3	4968.7	4819.4	4594.6	4545.5	4562.5	5354.1	4367.9
47.5°	4713.6	4696.6	4993.3	5259.6	5501.5	5386.2	5289.9	5146.3	5133.1	5981.3	5031.0
50°	5203.0	5199.2	5463.7	5766.0	6045.6	6270.4	6109.8	5953.0	5956.8	6833.4	5811.3
52.5°	5667.7	5741.4	6026.7	6327.1	6806.9	7048.7	7203.7	7141.3	6840.9	7594.7	6646.3
55°	5913.3	5977.5	6260.9	6778.6	7536.2	8157.7	8577.1	8524.2	7944.2	8452.5	7470.0
57.5°	5680.9	5724.4	6107.9	6786.1	8046.3	9433.0	9835.4	9769.3	9085.3	9108.0	8465.7
60°	4708.0	4776.0	5346.5	6141.9	7847.9	10415.4	11567.8	11467.7	10124.4	9937.4	9106.1
62.5°	3260.8	3306.2	3774.7	4764.7	6907.1	10757.3	13203.9	13258.7	11220.2	10583.5	9296.9
65°	2112.2	2108.4	2376.7	3047.3	4895.0	9722.0	14171.2	14511.2	12278.2	10681.8	9238.4
67°	1492.5	1486.8	1613.4	2066.8	3389.3	8010.4	14154.2	14885.3	12852.5	10710.1	8696.2
67.5°	1377.3	1371.6	1492.5	1900.6	3058.7	7449.3	13942.6	14692.6	13054.6	10670.4	8458.1
70°	1069.3	1054.2	1099.5	1309.2	1781.6	4817.6	11932.4	13496.7	12635.2	9680.5	6754.0
72.5°	772.7	789.7	861.5	1075.0	1398.0	2592.0	9094.8	10914.1	10553.3	7296.2	4292.3
75°	538.4	553.5	668.8	876.6	1282.8	1571.8	6149.5	7915.9	7351.0	4027.9	1828.8
77.5°	281.5	300.4	427.0	700.9	1165.7	1216.7	3674.6	5019.7	3895.6	1433.9	504.4
80°	130.4	139.8	213.5	496.9	974.8	1069.3	2142.4	2792.3	1558.6	321.2	173.8
82.5°	56.7	62.3	98.2	285.3	691.5	935.2	1326.2	1464.2	564.9	103.9	107.7
85°	11.3	13.2	37.8	151.1	334.4	566.8	931.4	869.0	283.4	51.0	85.0
87.5°	0.0	0.0	9.4	43.5	90.7	168.1	394.9	394.9	86.9	26.4	32.1
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°	4031.6	4031.6	4031.6	4031.6	4031.6	4031.6	4031.6	4031.6	4031.6	4031.6	4031.6
2.5°	4033.5	3965.5	3816.3	3678.3	3580.1	3468.6	3321.3	3255.2	3230.6	3196.6	3145.6
5°	3927.7	3844.6	3589.6	3332.6	3051.1	2837.6	2610.9	2478.7	2378.6	2316.2	2295.4
7.5°	3778.5	3608.4	3264.6	2852.7	2488.1	2170.7	1826.9	1594.5	1445.3	1384.8	1328.1
10°	3659.5	3438.4	2915.1	2403.1	1917.6	1452.8	1065.5	861.5	706.6	648.0	640.5
12.5°	3504.5	3240.0	2588.3	1944.0	1333.8	865.3	589.4	512.0	468.5	461.0	455.3
15°	3376.1	3060.6	2278.4	1505.7	863.4	540.3	459.1	440.2	428.9	425.1	427.0
17.5°	3289.2	2867.9	1961.0	1095.8	568.7	442.1	423.2	411.9	406.2	404.3	398.6
20°	3117.2	2705.4	1647.4	767.0	444.0	408.1	393.0	383.5	377.8	376.0	374.1
22.5°	3019.0	2499.5	1333.8	534.7	394.9	370.3	359.0	351.4	342.0	336.3	334.4
25°	2920.8	2348.3	1054.2	415.6	359.0	342.0	324.9	315.5	300.4	292.8	290.9
27.5°	2805.5	2199.1	812.4	360.8	323.1	306.1	289.1	273.9	255.0	247.5	243.7
30°	2739.4	2053.6	612.1	323.1	296.6	273.9	253.2	234.3	213.5	200.3	196.5
32.5°	2705.4	1921.4	459.1	294.7	268.3	243.7	217.3	194.6	175.7	164.4	162.5
35°	2663.8	1792.9	360.8	268.3	241.8	215.4	188.9	166.3	147.4	137.9	134.1
37.5°	2707.3	1717.3	300.4	247.5	221.0	190.8	162.5	139.8	124.7	115.2	113.4
40°	2826.3	1655.0	260.7	228.6	200.3	168.1	141.7	119.0	105.8	98.2	94.5
42.5°	3009.6	1655.0	236.2	209.7	181.4	147.4	120.9	103.9	90.7	83.1	81.2
45°	3342.1	1706.0	215.4	190.8	158.7	126.6	103.9	86.9	73.7	66.1	64.2
47.5°	3808.7	1823.1	198.4	173.8	141.7	111.5	90.7	73.7	60.5	52.9	51.0
50°	4435.9	2089.5	181.4	153.0	126.6	96.4	75.6	58.6	47.2	39.7	37.8
52.5°	5218.1	2467.3	164.4	141.7	107.7	81.2	60.5	47.2	35.9	30.2	28.3
55°	6045.6	2930.2	143.6	126.6	92.6	68.0	49.1	35.9	26.4	22.7	20.8
57.5°	6878.7	3287.3	126.6	109.6	75.6	54.8	39.7	28.3	18.9	15.1	13.2
60°	7320.8	3321.3	109.6	90.7	60.5	43.5	30.2	20.8	13.2	9.4	7.6
62.5°	7388.8	3019.0	94.5	73.7	49.1	34.0	20.8	15.1	7.6	3.8	3.8
65°	7039.3	2516.5	81.2	58.6	37.8	24.6	15.1	9.4	3.8	1.9	0.0
67°	6472.5	2108.4	69.9	49.1	30.2	18.9	11.3	5.7	1.9	0.0	0.0
67.5°	6253.4	1995.0	66.1	45.3	28.3	17.0	9.4	5.7	1.9	0.0	0.0
70°	4853.5	1424.5	49.1	32.1	20.8	13.2	7.6	3.8	0.0	0.0	0.0
72.5°	2973.7	833.2	37.8	22.7	15.1	9.4	5.7	1.9	0.0	0.0	0.0
75°	1246.9	287.2	32.1	17.0	11.3	5.7	3.8	1.9	0.0	0.0	0.0
77.5°	324.9	107.7	22.7	11.3	7.6	5.7	3.8	1.9	0.0	0.0	0.0
80°	132.2	49.1	15.1	7.6	7.6	5.7	3.8	1.9	0.0	0.0	0.0
82.5°	86.9	22.7	9.4	7.6	5.7	3.8	1.9	0.0	0.0	0.0	0.0
85°	66.1	13.2	5.7	5.7	3.8	1.9	0.0	0.0	0.0	0.0	0.0
87.5°	28.3	7.6	5.7	3.8	3.8	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)