

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: P636826

Luminaire Tested: **IFLD-S-SA2C-950-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636826  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-950-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (32) 5000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7900 lumens  
Efficiency: N/A  
Efficacy: 73.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

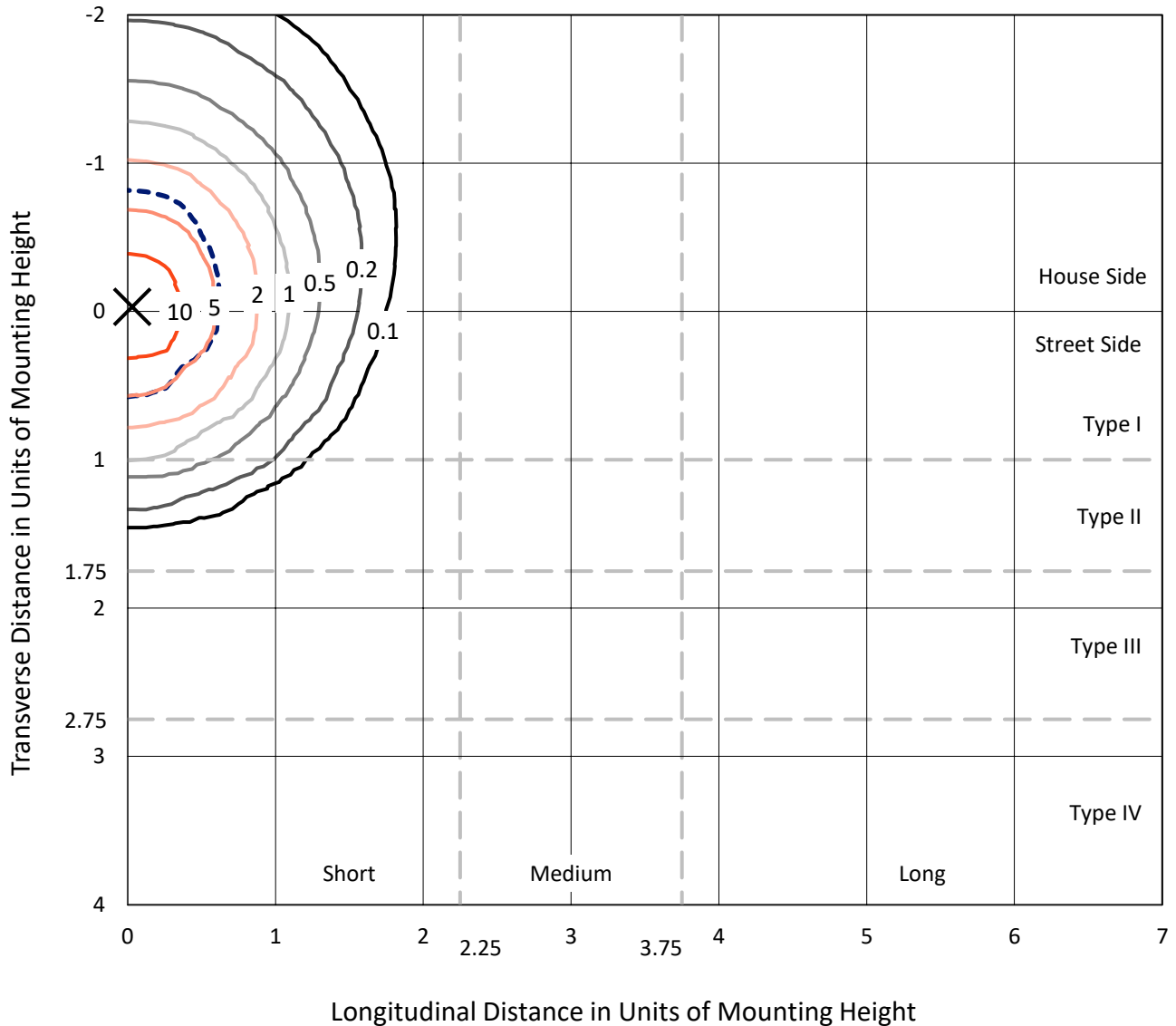
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

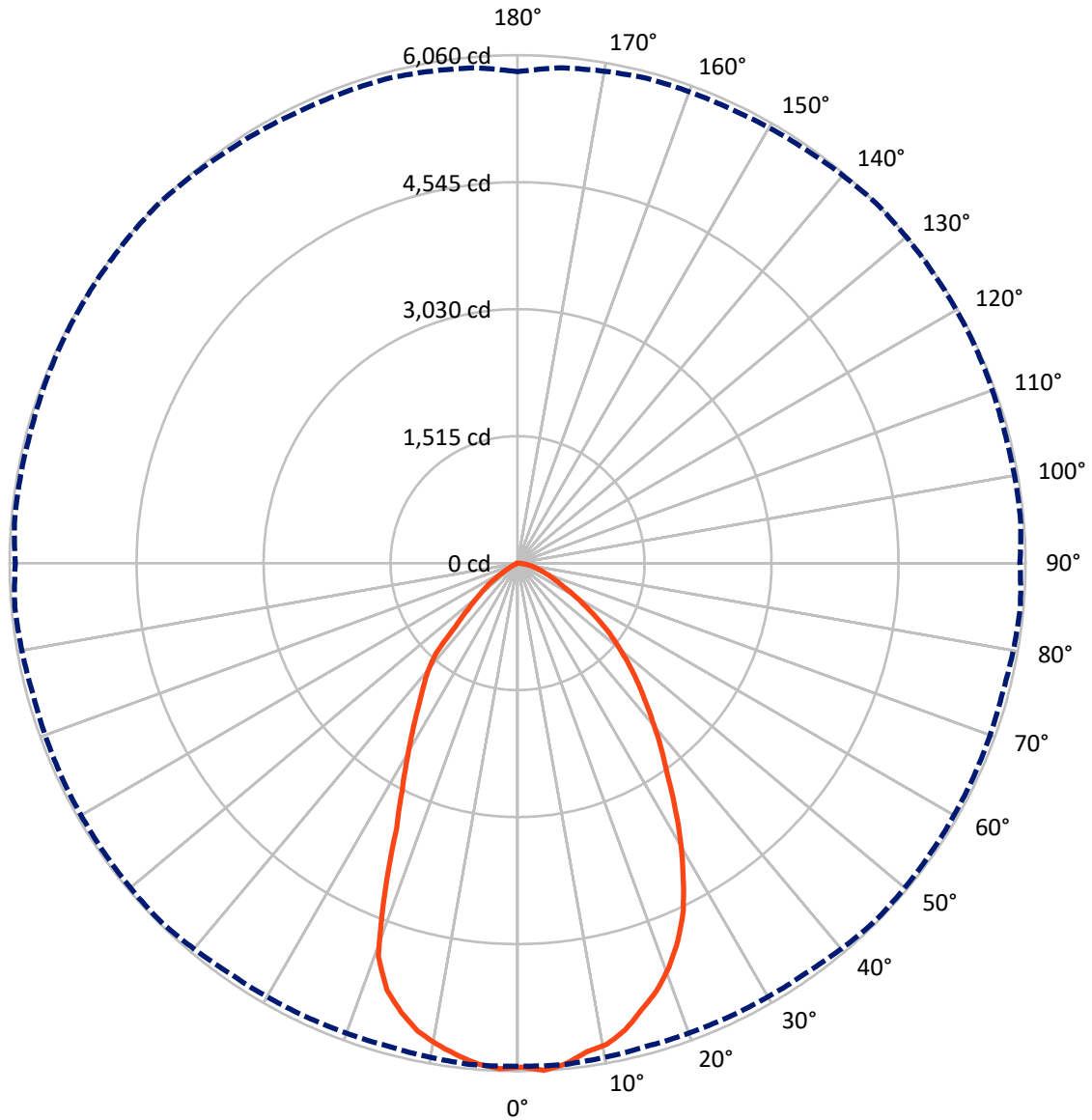
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 15 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4678.8	0.0	4678.8
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	3221.2	0.0	3221.2
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	7900.0	0.0	7900.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	563.8	7.1
10°-20°	1511.9	19.1
20°-30°	1843.9	23.3
30°-40°	1683.4	21.3
40°-50°	1216.6	15.4
50°-60°	664.3	8.4
60°-70°	274.6	3.5
70°-80°	111.2	1.4
80°-90°	30.2	0.4
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°	7900.0	100.0
0°-180°	7900.0	100.0



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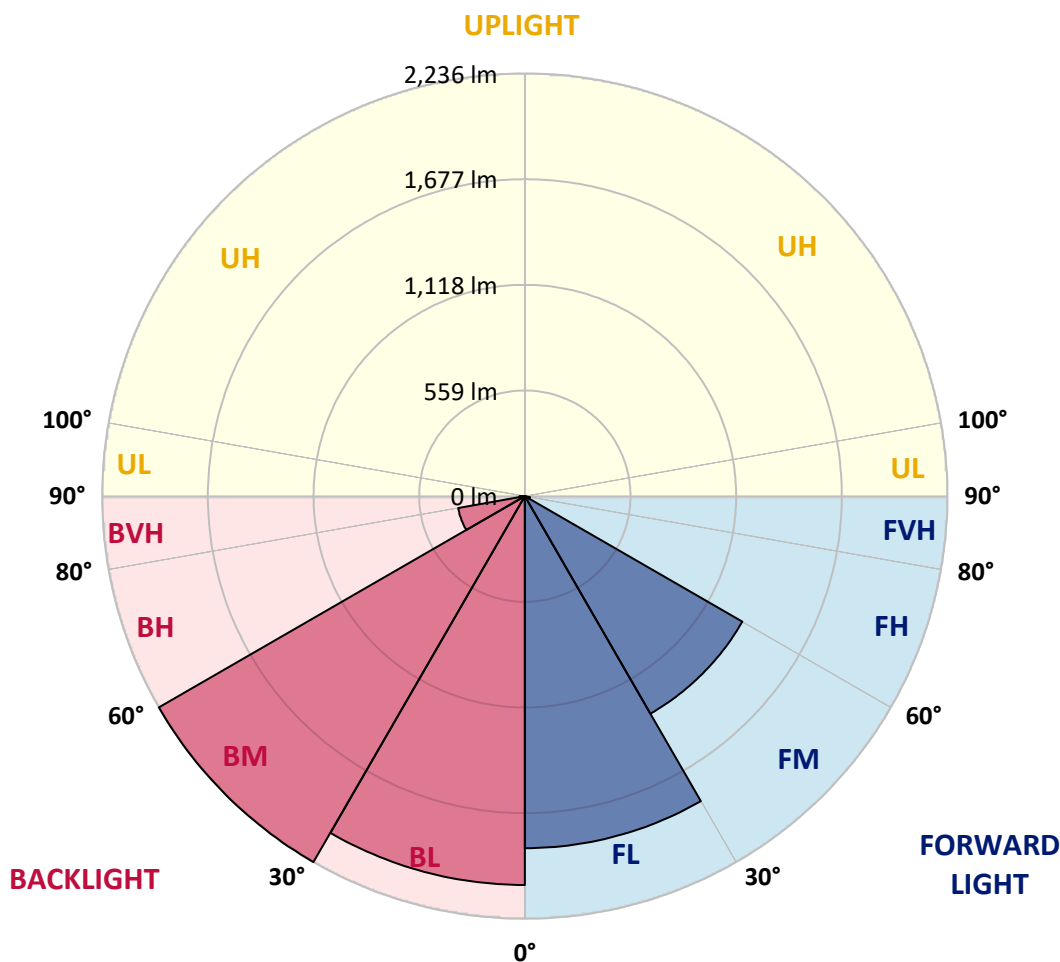
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1862.3	23.6			
FM (30°-60°)	1328.6	16.8			
FH (60°-80°)	27.8	0.4			G0/660
FVH (80°-90°)	2.4	0.0			G0/10
BL (0°-30°)	2057.3	26.0	B3/2500		
BM (30°-60°)	2235.6	28.3	B2/2500		
BH (60°-80°)	358.0	4.5	B1/500		G1/500
BVH (80°-90°)	27.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6011.9	6011.9	6011.9	6011.9	6011.9	6011.9	6011.9	6011.9	6011.9	6011.9
2.5°	6000.7	6008.5	5966.3	5970.7	5978.5	6035.2	6020.8	6007.4	5988.5	6020.8
5°	5993.0	5997.4	5952.9	5937.3	5944.0	5995.2	5948.5	5948.5	5944.0	5938.4
7.5°	5932.9	5935.1	5900.6	5872.8	5890.6	5914.0	5879.5	5896.2	5871.7	5890.6
10°	5842.8	5828.3	5787.1	5779.4	5799.4	5821.6	5798.3	5813.8	5791.6	5806.1
12.5°	5710.4	5688.1	5654.8	5644.7	5679.2	5709.3	5690.4	5681.5	5652.5	5688.1
15°	5199.8	5183.1	5258.7	5391.1	5510.1	5535.7	5515.7	5524.6	5464.5	5474.5
17.5°	4279.7	4248.6	4329.8	4643.5	5090.7	5326.6	5308.8	5250.9	5161.9	5182.0
20°	3889.2	3880.3	3871.4	3946.0	4258.6	4973.9	4998.4	4851.5	4724.7	4696.9
22.5°	3669.0	3665.6	3656.7	3673.4	3755.7	4215.2	4495.5	4359.8	4275.3	4267.5
25°	3467.6	3462.1	3435.4	3456.5	3456.5	3483.2	3842.5	3924.8	3850.3	3841.4
27.5°	3262.9	3252.9	3248.5	3258.5	3207.3	3027.1	3118.3	3519.9	3481.0	3483.2
30°	3041.5	3038.2	3026.0	3047.1	2889.1	2665.5	2607.7	3152.8	3160.6	3158.3
32.5°	2712.2	2726.7	2782.3	2805.7	2545.4	2360.7	2263.9	2727.8	2886.9	2883.6
35°	1970.2	1970.2	2151.5	2488.6	2230.5	2091.5	2039.2	2312.9	2616.6	2627.7
37.5°	1619.8	1625.3	1660.9	1814.5	1924.6	1875.6	1860.1	1946.8	2269.5	2287.3
40°	1457.4	1457.4	1457.4	1393.9	1390.6	1689.9	1681.0	1653.2	1960.2	1999.1
42.5°	1309.4	1312.7	1315.0	1154.8	1065.8	1460.7	1440.7	1398.4	1683.2	1728.8
45°	1157.0	1162.5	1169.2	965.6	926.7	1051.3	1219.3	1172.6	1409.5	1468.5
47.5°	706.4	715.3	866.6	818.8	823.2	811.0	994.6	986.8	1155.9	1239.3
50°	477.3	480.6	495.1	519.5	706.4	637.5	704.2	816.6	877.8	1004.6
52.5°	400.5	406.1	370.5	337.1	463.9	498.4	491.7	606.3	630.8	787.6
55°	281.5	299.3	282.6	279.2	263.7	387.1	372.7	466.1	481.7	598.5
57.5°	28.9	33.4	57.8	208.0	172.4	219.2	265.9	341.5	357.1	441.7
60°	2.2	2.2	5.6	28.9	125.7	131.3	183.6	210.3	240.3	308.2
62.5°	0.0	1.1	2.2	4.4	20.0	70.1	92.3	110.1	144.6	199.1
65°	0.0	0.0	1.1	3.3	4.4	26.7	35.6	57.8	79.0	123.5
67.5°	0.0	0.0	1.1	2.2	3.3	6.7	12.2	21.1	42.3	70.1
70°	0.0	0.0	1.1	2.2	3.3	5.6	8.9	13.3	18.9	37.8
72.5°	0.0	0.0	1.1	1.1	2.2	5.6	6.7	8.9	13.3	18.9
75°	0.0	0.0	1.1	1.1	3.3	6.7	5.6	6.7	8.9	12.2
77.5°	0.0	0.0	1.1	2.2	3.3	6.7	5.6	6.7	6.7	7.8
80°	0.0	0.0	1.1	2.2	4.4	7.8	6.7	6.7	5.6	5.6
82.5°	0.0	0.0	1.1	3.3	4.4	10.0	10.0	8.9	4.4	3.3
85°	0.0	0.0	2.2	4.4	6.7	11.1	11.1	8.9	3.3	2.2
87.5°	0.0	0.0	2.2	3.3	5.6	7.8	11.1	8.9	3.3	1.1
90°	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°
6011.9	0°	6011.9	6011.9	6011.9	6011.9	6011.9	6011.9	6011.9	6011.9	6011.9
5993.0	2.5°	6023.0	6016.3	6038.6	6047.5	6059.7	6013.0	5984.1	5985.2	5931.8
5925.1	5°	5960.7	5961.8	5990.7	5988.5	6000.7	5975.2	5964.0	5945.1	5898.4
5839.4	7.5°	5881.7	5871.7	5899.5	5920.6	5889.5	5907.3	5881.7	5890.6	5862.8
5763.8	10°	5820.5	5797.2	5822.7	5837.2	5838.3	5820.5	5796.0	5772.7	5762.7
5645.9	12.5°	5684.8	5654.8	5698.1	5718.2	5714.8	5680.3	5652.5	5658.1	5625.8
5438.9	15°	5497.9	5499.0	5530.2	5549.1	5531.3	5523.5	5525.7	5512.4	5484.5
5153.0	17.5°	5212.0	5228.7	5311.0	5356.6	5366.6	5351.0	5343.3	5327.7	5299.9
4696.9	20°	4735.8	4836.0	4982.8	5124.1	5151.9	5147.5	5119.7	5113.0	5097.4
4245.2	22.5°	4317.6	4392.1	4562.3	4782.6	4896.0	4907.2	4873.8	4863.8	4847.1
3841.4	25°	3884.8	3964.9	4118.4	4357.6	4592.3	4640.2	4634.6	4604.6	4586.8
3483.2	27.5°	3519.9	3600.0	3739.1	3954.9	4206.3	4359.8	4374.3	4326.5	4325.3
3163.9	30°	3190.6	3300.7	3406.4	3582.2	3825.8	4056.1	4080.6	4047.2	4050.6
2871.3	32.5°	2932.5	3023.7	3113.8	3231.8	3434.2	3702.3	3798.0	3766.9	3754.6
2627.7	35°	2668.8	2731.1	2823.5	2931.4	3069.3	3335.2	3501.0	3477.6	3465.4
2298.4	37.5°	2368.5	2475.3	2542.0	2663.3	2771.2	2982.6	3216.2	3212.9	3187.3
2018.0	40°	2060.3	2172.7	2273.9	2396.3	2479.7	2647.7	2906.9	2905.8	2909.1
1727.7	42.5°	1781.1	1884.5	2006.9	2140.4	2220.5	2342.9	2621.0	2636.6	2655.5
1488.5	45°	1528.6	1622.0	1735.5	1897.9	1994.7	2064.8	2311.7	2382.9	2381.8
1274.9	47.5°	1301.6	1389.5	1485.2	1643.1	1766.6	1830.0	2034.7	2136.0	2129.3
1045.7	50°	1092.5	1170.3	1270.5	1385.0	1550.8	1606.4	1758.8	1892.3	1882.3
833.3	52.5°	878.9	986.8	1071.3	1175.9	1350.6	1405.1	1523.0	1653.2	1645.4
625.2	55°	685.3	789.9	892.2	982.3	1129.2	1210.4	1294.9	1428.4	1426.2
489.5	57.5°	518.4	633.0	729.8	815.5	932.3	1032.4	1100.2	1221.5	1237.1
334.9	60°	383.8	471.7	576.3	671.9	764.3	867.7	913.3	1032.4	1039.1
229.2	62.5°	261.4	358.2	460.6	547.3	616.3	723.1	764.3	862.2	874.4
146.8	65°	181.3	243.6	360.4	422.7	507.3	598.5	639.7	717.6	742.0
84.5	67.5°	120.1	173.5	281.5	338.2	421.6	483.9	536.2	599.6	626.3
53.4	70°	65.6	127.9	201.4	267.0	339.3	399.4	450.6	501.7	525.1
24.5	72.5°	44.5	85.7	140.2	211.4	273.7	332.6	378.2	416.1	417.2
14.5	75°	22.2	57.8	106.8	163.5	213.6	271.4	312.6	334.9	308.2
8.9	77.5°	13.3	42.3	86.8	131.3	173.5	219.2	242.5	254.8	211.4
6.7	80°	7.8	30.0	67.9	104.6	120.1	161.3	183.6	186.9	141.3
4.4	82.5°	5.6	22.2	53.4	76.8	73.4	113.5	137.9	133.5	90.1
3.3	85°	3.3	15.6	33.4	47.8	44.5	74.5	80.1	82.3	52.3
2.2	87.5°	2.2	8.9	17.8	25.6	21.1	32.3	32.3	38.9	25.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
6011.9
5862.8
5887.3
5816.1
5718.2
5598.0
5456.7
5287.6
5061.8
4842.6
4567.9
4323.1
4033.9
3755.7
3448.7
3208.4
2909.1
2645.5
2384.1
2131.5
1891.2
1662.1
1431.8
1230.4
1049.1
876.6
736.5
623.0
516.2
407.2
288.1
203.6
132.4
83.4
47.8
22.2
0.0

(END OF REPORT)