

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: P636784

Luminaire Tested: **IFLD-M-SA4D-935-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636784  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-935-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (64) 3500K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15978 lumens  
Efficiency: N/A  
Efficacy: 64.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

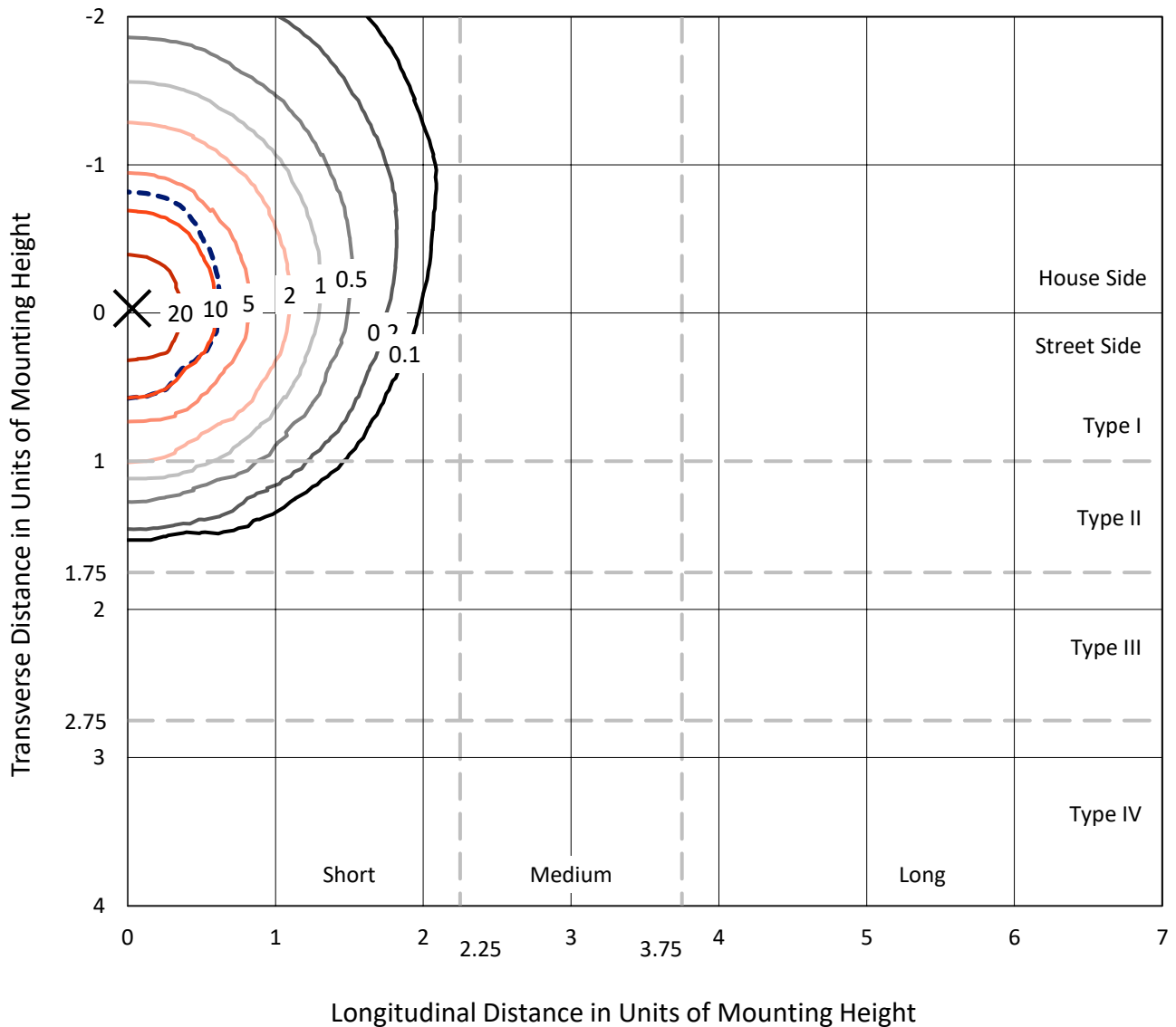
Input Watts (W): 249.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

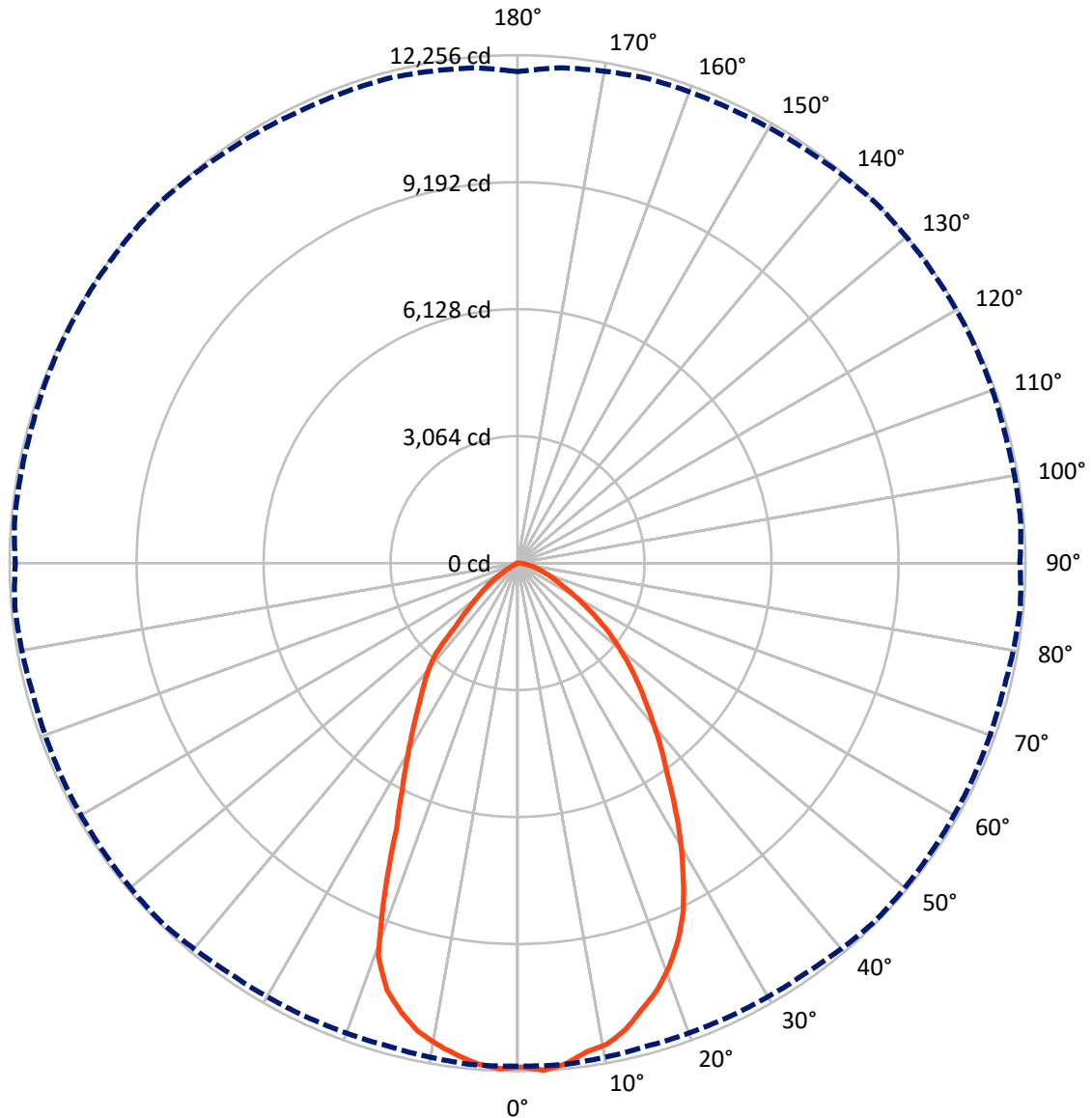
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 30.4 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	9463.0	0.0	9463.0
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	6515.0	0.0	6515.0
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	15978.0	0.0	15978.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1140.3	7.1
10°-20°	3057.9	19.1
20°-30°	3729.2	23.3
30°-40°	3404.8	21.3
40°-50°	2460.5	15.4
50°-60°	1343.5	8.4
60°-70°	555.5	3.5
70°-80°	225.0	1.4
80°-90°	61.2	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°	15978.0	100.0
0°-180°	15978.0	100.0



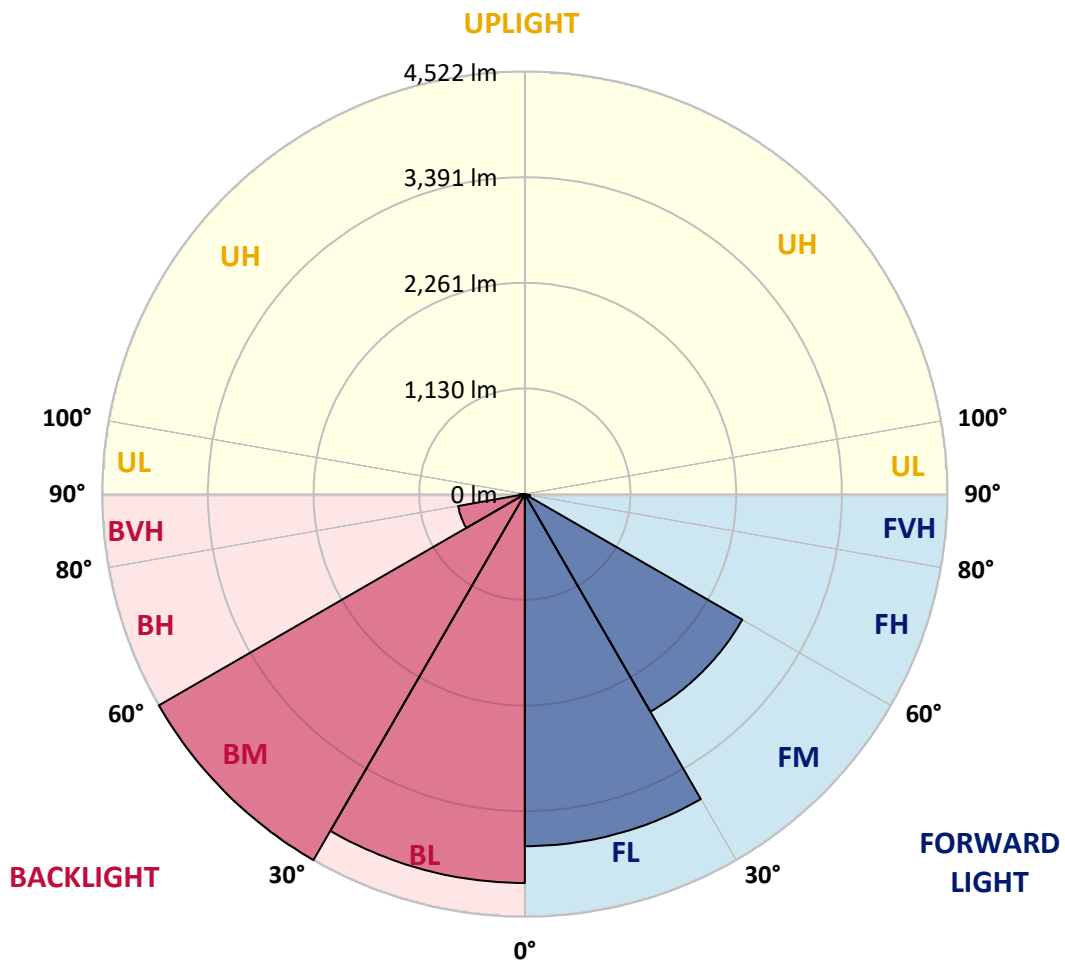
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3766.6	23.6			
FM (30°-60°)	2687.2	16.8			
FH (60°-80°)	56.3	0.4			G0/660
FVH (80°-90°)	4.9	0.0			G0/10
BL (0°-30°)	4160.9	26.0	B4/5000		
BM (30°-60°)	4521.6	28.3	B3/5000		
BH (60°-80°)	724.2	4.5	B2/1000		G2/1000
BVH (80°-90°)	56.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12159.1	12159.1	12159.1	12159.1	12159.1	12159.1	12159.1	12159.1	12159.1	12159.1
2.5°	12136.6	12152.4	12066.9	12075.9	12091.6	12206.4	12177.1	12150.1	12111.9	12177.1
5°	12120.9	12129.9	12039.9	12008.4	12021.9	12125.4	12030.9	12030.9	12021.9	12010.6
7.5°	11999.4	12003.9	11934.1	11877.9	11913.9	11961.1	11891.4	11925.1	11875.6	11913.9
10°	11817.1	11787.9	11704.6	11688.9	11729.4	11774.4	11727.1	11758.6	11713.6	11742.9
12.5°	11549.4	11504.4	11436.9	11416.6	11486.4	11547.1	11508.9	11490.9	11432.4	11504.4
15°	10516.6	10482.9	10635.9	10903.6	11144.4	11196.1	11155.6	11173.6	11052.1	11072.4
17.5°	8655.8	8592.8	8757.1	9391.6	10296.1	10773.1	10737.1	10620.1	10440.1	10480.6
20°	7866.1	7848.1	7830.1	7980.8	8613.1	10059.9	10109.4	9812.4	9555.9	9499.6
22.5°	7420.6	7413.8	7395.8	7429.6	7596.1	8525.3	9092.4	8817.8	8646.8	8631.1
25°	7013.3	7002.1	6948.1	6990.8	6990.8	7044.8	7771.6	7938.1	7787.3	7769.3
27.5°	6599.3	6579.1	6570.1	6590.3	6486.8	6122.3	6306.8	7119.1	7040.3	7044.8
30°	6151.6	6144.8	6120.1	6162.8	5843.3	5391.1	5274.1	6376.6	6392.3	6387.8
32.5°	5485.6	5514.8	5627.3	5674.6	5148.1	4774.6	4578.8	5517.1	5838.8	5832.1
35°	3984.8	3984.8	4351.5	5033.3	4511.3	4230.0	4124.3	4677.8	5292.1	5314.6
37.5°	3276.0	3287.3	3359.3	3669.8	3892.5	3793.5	3762.0	3937.5	4590.1	4626.1
40°	2947.5	2947.5	2947.5	2819.3	2812.5	3417.8	3399.8	3343.5	3964.5	4043.3
42.5°	2648.3	2655.0	2659.5	2335.5	2155.5	2954.3	2913.8	2828.3	3404.3	3496.5
45°	2340.0	2351.3	2364.8	1953.0	1874.3	2126.3	2466.0	2371.5	2850.8	2970.0
47.5°	1428.8	1446.8	1752.8	1656.0	1665.0	1640.3	2011.5	1995.8	2337.8	2506.5
50°	965.3	972.0	1001.3	1050.8	1428.8	1289.3	1424.3	1651.5	1775.3	2031.8
52.5°	810.0	821.3	749.3	681.8	938.3	1008.0	994.5	1226.3	1275.8	1593.0
55°	569.3	605.3	571.5	564.8	533.3	783.0	753.8	942.8	974.3	1210.5
57.5°	58.5	67.5	117.0	420.8	348.8	443.3	537.8	690.8	722.3	893.3
60°	4.5	4.5	11.3	58.5	254.3	265.5	371.3	425.3	486.0	623.3
62.5°	0.0	2.3	4.5	9.0	40.5	141.8	186.8	222.8	292.5	402.8
65°	0.0	0.0	2.3	6.8	9.0	54.0	72.0	117.0	159.8	249.8
67.5°	0.0	0.0	2.3	4.5	6.8	13.5	24.8	42.8	85.5	141.8
70°	0.0	0.0	2.3	4.5	6.8	11.3	18.0	27.0	38.3	76.5
72.5°	0.0	0.0	2.3	2.3	4.5	11.3	13.5	18.0	27.0	38.3
75°	0.0	0.0	2.3	2.3	6.8	13.5	11.3	13.5	18.0	24.8
77.5°	0.0	0.0	2.3	4.5	6.8	13.5	11.3	13.5	13.5	15.8
80°	0.0	0.0	2.3	4.5	9.0	15.8	13.5	13.5	11.3	11.3
82.5°	0.0	0.0	2.3	6.8	9.0	20.3	20.3	18.0	9.0	6.8
85°	0.0	0.0	4.5	9.0	13.5	22.5	22.5	18.0	6.8	4.5
87.5°	0.0	0.0	4.5	6.8	11.3	15.8	22.5	18.0	6.8	2.3
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°
12159.1	0°	12159.1	12159.1	12159.1	12159.1	12159.1	12159.1	12159.1	12159.1	12159.1
12120.9	2.5°	12181.6	12168.1	12213.1	12231.1	12255.9	12161.4	12102.9	12105.1	11997.1
11983.6	5°	12055.6	12057.9	12116.4	12111.9	12136.6	12084.9	12062.4	12024.1	11929.6
11810.4	7.5°	11895.9	11875.6	11931.9	11974.6	11911.6	11947.6	11895.9	11913.9	11857.6
11657.4	10°	11772.1	11724.9	11776.6	11805.9	11808.1	11772.1	11722.6	11675.4	11655.1
11418.9	12.5°	11497.6	11436.9	11524.6	11565.1	11558.4	11488.6	11432.4	11443.6	11378.4
11000.4	15°	11119.6	11121.9	11184.9	11223.1	11187.1	11171.4	11175.9	11148.9	11092.6
10422.1	17.5°	10541.4	10575.1	10741.6	10833.9	10854.1	10822.6	10806.9	10775.4	10719.1
9499.6	20°	9578.4	9780.9	10077.9	10363.6	10419.9	10410.9	10354.6	10341.1	10309.6
8586.1	22.5°	8732.3	8883.1	9227.4	9672.9	9902.4	9924.9	9857.4	9837.1	9803.4
7769.3	25°	7857.1	8019.1	8329.6	8813.3	9288.1	9384.9	9373.6	9312.9	9276.9
7044.8	27.5°	7119.1	7281.1	7562.3	7998.8	8507.3	8817.8	8847.1	8750.3	8748.1
6399.1	30°	6453.1	6675.8	6889.6	7245.1	7737.8	8203.6	8253.1	8185.6	8192.3
5807.3	32.5°	5931.1	6115.6	6297.8	6536.3	6945.8	7488.1	7681.6	7618.6	7593.8
5314.6	35°	5397.8	5523.8	5710.6	5928.8	6207.8	6745.6	7080.8	7033.6	7008.8
4648.6	37.5°	4790.3	5006.3	5141.3	5386.6	5604.8	6032.3	6504.8	6498.1	6446.3
4081.5	40°	4167.0	4394.3	4599.1	4846.6	5015.3	5355.1	5879.3	5877.1	5883.8
3494.3	42.5°	3602.3	3811.5	4059.0	4329.0	4491.0	4738.6	5301.1	5332.6	5370.8
3010.5	45°	3091.5	3280.5	3510.0	3838.5	4034.3	4176.0	4675.6	4819.6	4817.3
2578.5	47.5°	2632.5	2810.3	3003.8	3323.3	3573.0	3701.3	4115.3	4320.0	4306.5
2115.0	50°	2209.5	2367.0	2569.5	2801.3	3136.5	3249.0	3557.3	3827.3	3807.0
1685.3	52.5°	1777.5	1995.8	2166.8	2378.3	2731.5	2841.8	3080.3	3343.5	3327.8
1264.5	55°	1386.0	1597.5	1804.5	1986.8	2283.8	2448.0	2619.0	2889.0	2884.5
990.0	57.5°	1048.5	1280.3	1476.0	1649.3	1885.5	2088.0	2225.3	2470.5	2502.0
677.3	60°	776.3	954.0	1165.5	1359.0	1545.8	1755.0	1847.3	2088.0	2101.5
463.5	62.5°	528.8	724.5	931.5	1107.0	1246.5	1462.5	1545.8	1743.8	1768.5
297.0	65°	366.8	492.8	729.0	855.0	1026.0	1210.5	1293.8	1451.3	1500.8
171.0	67.5°	243.0	351.0	569.3	684.0	852.8	978.8	1084.5	1212.8	1266.8
108.0	70°	132.8	258.8	407.3	540.0	686.3	807.8	911.3	1014.8	1062.0
49.5	72.5°	90.0	173.3	283.5	427.5	553.5	672.8	765.0	841.5	843.8
29.3	75°	45.0	117.0	216.0	330.8	432.0	549.0	632.3	677.3	623.3
18.0	77.5°	27.0	85.5	175.5	265.5	351.0	443.3	490.5	515.3	427.5
13.5	80°	15.8	60.8	137.3	211.5	243.0	326.3	371.3	378.0	285.8
9.0	82.5°	11.3	45.0	108.0	155.3	148.5	229.5	279.0	270.0	182.3
6.8	85°	6.8	31.5	67.5	96.8	90.0	150.8	162.0	166.5	105.8
4.5	87.5°	4.5	18.0	36.0	51.8	42.8	65.3	65.3	78.8	51.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
12159.1
<i>11857.6</i>
11907.1
11763.1
11565.1
11322.1
11036.4
10694.4
10237.6
9794.4
9238.6
8743.6
8158.6
7596.1
6975.1
6489.1
5883.8
5350.6
4821.8
4311.0
3825.0
3361.5
2895.8
2488.5
2121.8
1773.0
1489.5
1260.0
1044.0
823.5
582.8
411.8
267.8
168.8
96.8
45.0
0.0

(END OF REPORT)