

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: P637812

Luminaire Tested: **IFLD-S-SA2C-727-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637812
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-727-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10023 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

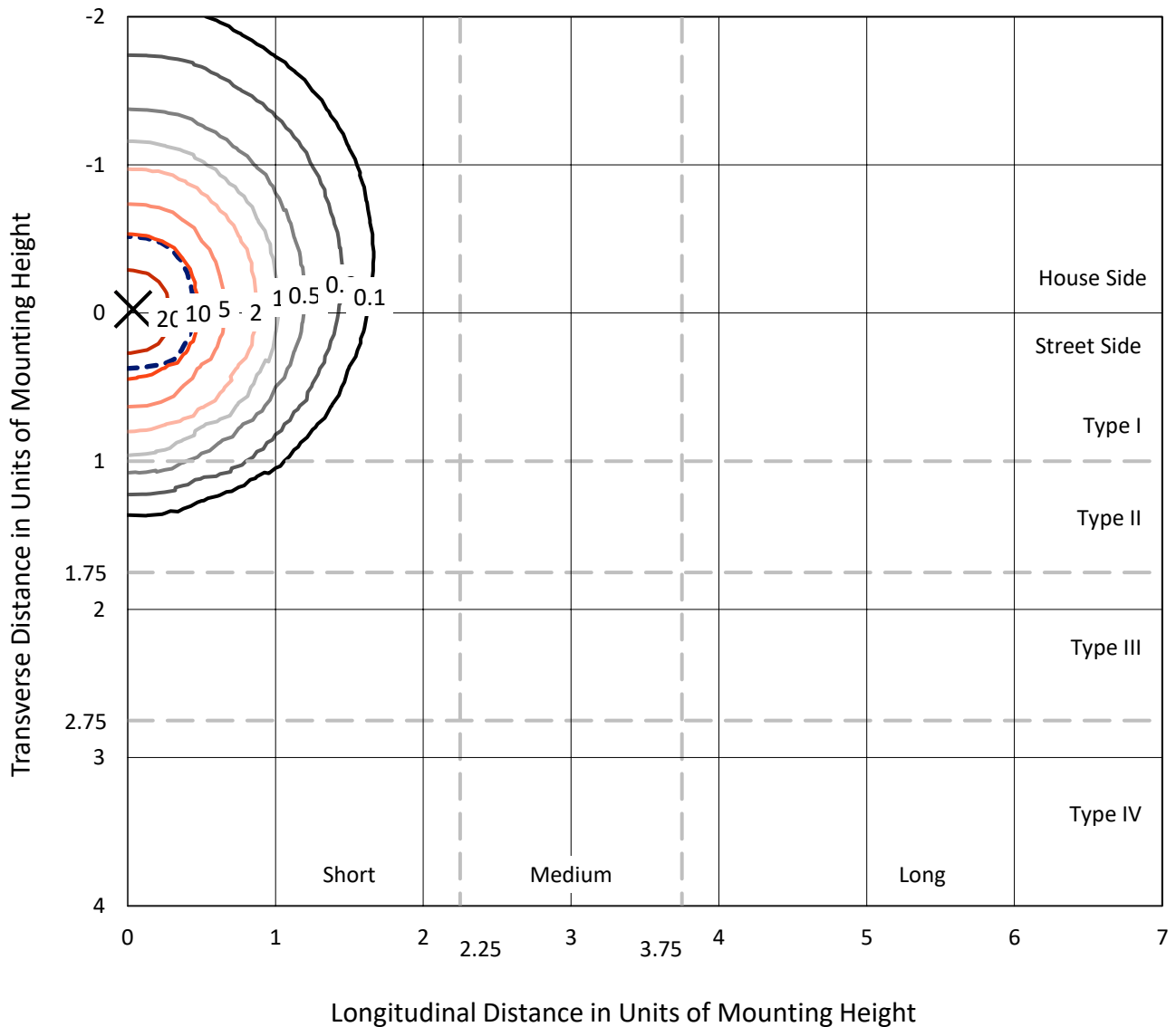
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

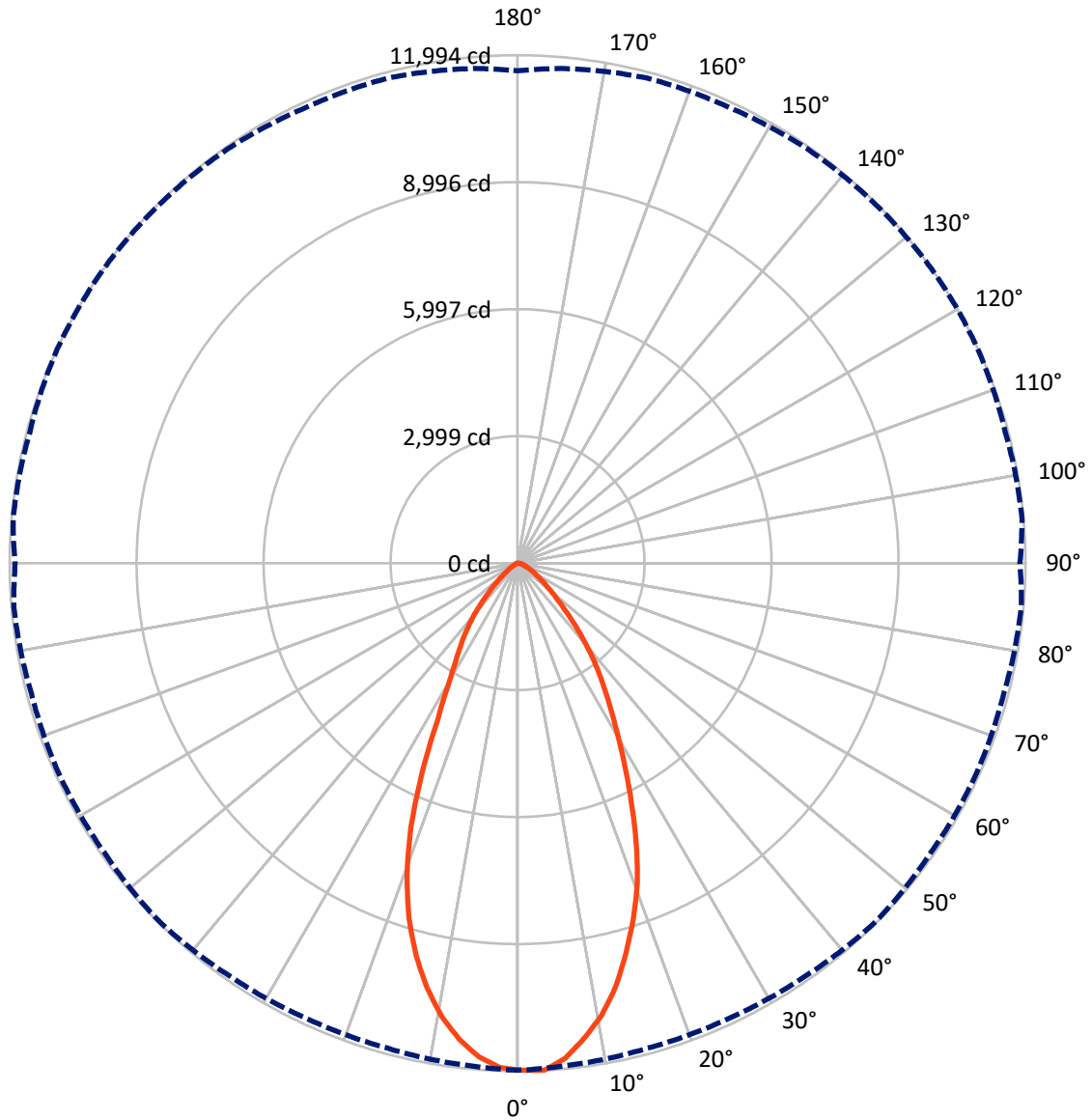
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 29.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5687.5	0.0	5687.5
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	4335.6	0.0	4335.6
	% Fixture	43.3	0.0	43.3
Total	Lumens	10023.0	0.0	10023.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1087.4	10.8
10°-20°	2592.1	25.9
20°-30°	2640.0	26.3
30°-40°	1968.6	19.6
40°-50°	1028.5	10.3
50°-60°	432.6	4.3
60°-70°	176.7	1.8
70°-80°	74.4	0.7
80°-90°	22.9	0.2
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°	10023.0	100.0
0°-180°	10023.0	100.0



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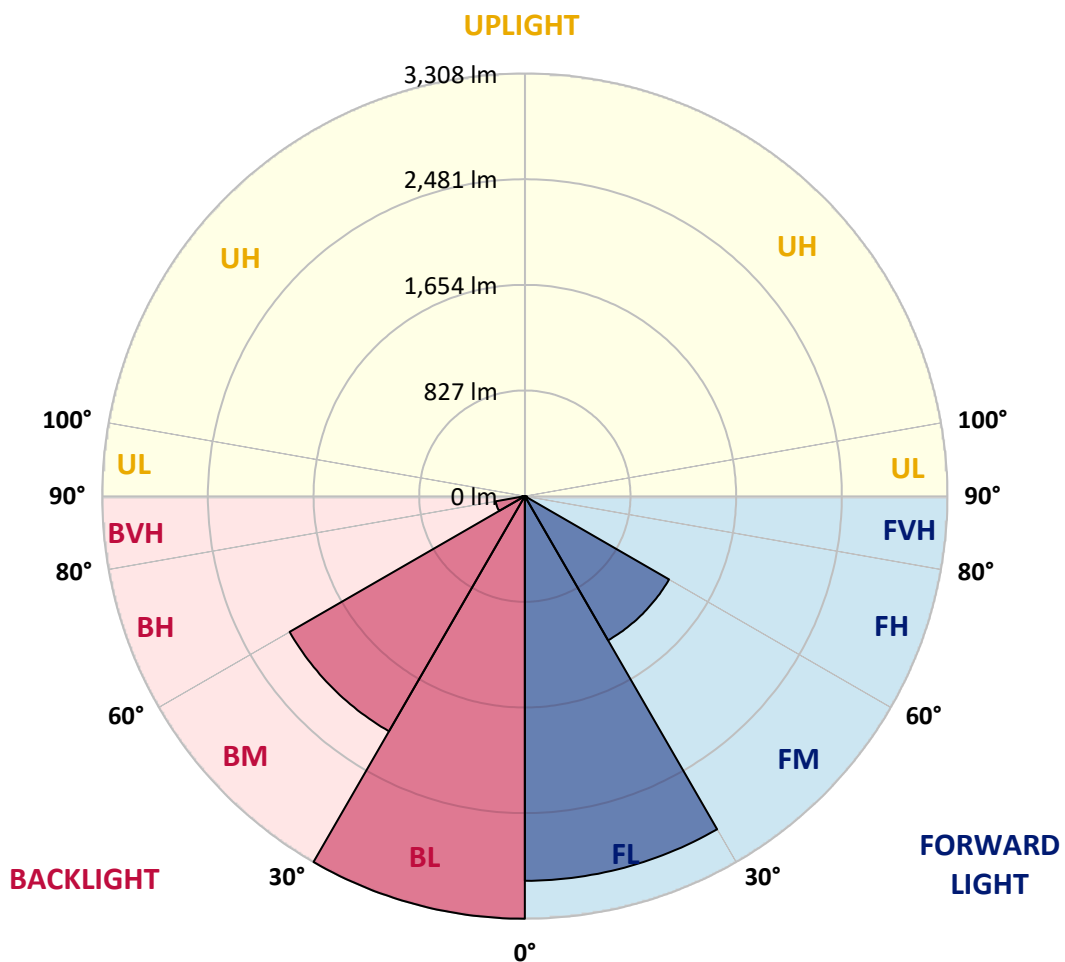
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3011.0	30.0			
FM (30°-60°)	1303.5	13.0			
FH (60°-80°)	18.9	0.2			G0/660
FVH (80°-90°)	2.1	0.0			G0/10
BL (0°-30°)	3308.4	33.0	B4/5000		
BM (30°-60°)	2126.1	21.2	B2/2500		
BH (60°-80°)	232.2	2.3	B1/500		G1/500
BVH (80°-90°)	20.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11975.0	11975.0	11975.0	11975.0	11975.0	11975.0	11975.0	11975.0	11975.0	11975.0
2.5°	11976.3	11927.4	11857.9	11851.4	11887.5	11966.0	11915.8	11918.4	11887.5	11940.3
5°	11788.4	11742.0	11694.4	11631.3	11684.1	11717.5	11691.8	11663.5	11623.6	11675.1
7.5°	11433.0	11407.3	11336.4	11308.1	11340.3	11377.6	11322.3	11314.6	11259.2	11326.1
10°	10889.7	10879.4	10809.9	10793.1	10821.4	10878.1	10853.6	10848.5	10813.7	10807.3
12.5°	10325.8	10285.8	10199.6	10194.4	10236.9	10321.9	10256.2	10193.1	10212.5	10229.2
15°	8873.5	8831.0	9044.7	9380.7	9557.1	9550.7	9570.0	9494.0	9470.9	9478.6
17.5°	7054.2	6982.1	7059.4	7579.5	8417.7	8904.4	8770.5	8606.9	8519.4	8461.5
20°	6088.6	6092.5	6078.3	6212.2	6734.9	7844.7	7812.6	7497.1	7382.5	7334.9
22.5°	5501.5	5479.6	5448.7	5491.2	5631.5	6283.0	6719.5	6429.8	6389.9	6337.1
25°	4926.0	4926.0	4888.6	4931.1	4971.0	4980.1	5417.8	5536.3	5459.0	5459.0
27.5°	4427.7	4402.0	4385.2	4404.5	4351.8	4098.1	4153.5	4759.9	4707.1	4674.9
30°	3933.3	3925.6	3897.3	3923.0	3727.3	3441.5	3325.6	4017.0	4072.4	4060.8
32.5°	3247.1	3278.0	3404.2	3444.1	3109.3	2878.9	2768.1	3334.6	3556.1	3547.1
35°	2206.8	2232.5	2376.7	2853.1	2577.6	2412.8	2380.6	2652.3	3016.6	3051.4
37.5°	1757.4	1753.6	1794.8	1879.8	2071.6	2031.7	2022.7	2093.5	2460.4	2475.9
40°	1448.4	1443.3	1442.0	1372.5	1324.8	1689.2	1664.7	1622.3	1940.3	1971.2
42.5°	1167.8	1172.9	1176.8	1024.9	955.3	1303.0	1288.8	1245.0	1521.8	1557.9
45°	916.7	915.4	923.1	763.5	744.2	833.0	963.1	928.3	1148.5	1187.1
47.5°	475.1	491.8	596.1	591.0	600.0	591.0	728.7	719.7	863.9	925.7
50°	319.3	324.5	333.5	334.8	472.5	435.2	494.4	560.1	605.1	700.4
52.5°	247.2	251.1	227.9	213.7	289.7	321.9	324.5	387.5	422.3	518.9
55°	137.8	154.5	166.1	167.4	159.7	238.2	236.9	287.1	314.2	378.5
57.5°	18.0	21.9	33.5	108.2	106.9	132.6	166.1	208.6	224.0	276.8
60°	1.3	2.6	3.9	16.7	70.8	77.3	113.3	130.0	155.8	194.4
62.5°	0.0	0.0	1.3	3.9	14.2	45.1	59.2	68.2	91.4	127.5
65°	0.0	0.0	1.3	2.6	5.2	16.7	23.2	37.3	54.1	78.5
67.5°	0.0	0.0	1.3	2.6	3.9	6.4	10.3	16.7	28.3	47.6
70°	0.0	0.0	1.3	2.6	3.9	5.2	7.7	10.3	15.5	25.8
72.5°	0.0	0.0	1.3	1.3	2.6	6.4	6.4	7.7	10.3	14.2
75°	0.0	0.0	1.3	2.6	3.9	6.4	6.4	6.4	7.7	9.0
77.5°	0.0	0.0	1.3	2.6	3.9	6.4	5.2	6.4	6.4	6.4
80°	0.0	0.0	1.3	2.6	3.9	6.4	7.7	6.4	5.2	5.2
82.5°	0.0	0.0	1.3	3.9	3.9	9.0	9.0	9.0	3.9	3.9
85°	0.0	0.0	2.6	3.9	6.4	10.3	10.3	7.7	3.9	2.6
87.5°	0.0	0.0	1.3	2.6	2.6	5.2	7.7	6.4	2.6	1.3
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°
11975.0	0°	11975.0	11975.0	11975.0	11975.0	11975.0	11975.0	11975.0	11975.0	11975.0
11863.0	2.5°	11958.3	11926.1	11986.6	11994.4	11968.6	11936.4	11861.7	11855.3	11725.3
11600.4	5°	11731.7	11678.9	11717.5	11743.3	11734.3	11699.5	11668.6	11640.3	11523.1
11174.2	7.5°	11309.4	11290.1	11308.1	11327.4	11364.8	11327.4	11314.6	11284.9	11169.1
10754.5	10°	10840.8	10804.7	10872.9	10863.9	10853.6	10843.3	10789.3	10794.4	10657.9
10182.8	12.5°	10265.2	10204.7	10270.4	10278.1	10270.4	10234.3	10173.8	10199.6	10074.7
9410.3	15°	9491.5	9485.0	9532.7	9563.6	9585.4	9546.8	9526.2	9539.1	9464.4
8416.4	17.5°	8541.3	8625.0	8780.8	8833.5	8834.8	8874.7	8863.2	8847.7	8792.3
7315.6	20°	7423.7	7584.7	7824.1	8070.1	8140.9	8107.4	8091.9	8120.3	8037.9
6281.7	22.5°	6392.4	6530.2	6808.3	7167.5	7374.8	7395.4	7391.5	7367.1	7334.9
5453.9	25°	5516.9	5639.3	5905.8	6234.1	6631.9	6691.1	6693.7	6686.0	6657.7
4703.2	27.5°	4777.9	4926.0	5072.8	5366.3	5789.9	6034.5	6003.6	5994.6	5984.3
4069.8	30°	4108.4	4295.1	4432.9	4615.7	4995.5	5326.4	5358.6	5343.1	5318.7
3545.8	32.5°	3578.0	3688.7	3863.8	3987.4	4260.3	4635.0	4758.6	4747.0	4725.1
3073.3	35°	3117.0	3160.8	3298.6	3436.3	3617.9	3981.0	4163.8	4138.0	4134.2
2504.2	37.5°	2567.3	2714.1	2790.0	2929.1	3056.5	3338.5	3590.8	3579.3	3580.5
2013.7	40°	2072.9	2157.9	2308.5	2425.7	2542.8	2748.8	3029.5	3037.2	3034.6
1559.2	42.5°	1591.4	1673.8	1832.1	1959.6	2063.9	2191.3	2459.1	2468.1	2479.7
1214.1	45°	1242.4	1295.2	1411.1	1543.7	1654.4	1731.7	1935.1	1993.1	1994.3
941.2	47.5°	964.3	1024.9	1107.3	1234.7	1342.9	1398.2	1546.3	1624.8	1621.0
722.3	50°	757.1	812.4	879.4	979.8	1097.0	1140.7	1250.2	1327.4	1323.6
544.6	52.5°	579.4	650.2	709.4	786.7	901.3	938.6	1017.1	1106.0	1093.1
399.1	55°	439.0	511.1	566.5	630.9	735.2	782.8	836.9	907.7	910.3
309.0	57.5°	330.9	405.6	455.8	521.4	600.0	652.8	694.0	769.9	768.6
211.2	60°	236.9	301.3	361.8	430.0	490.5	551.1	579.4	651.5	654.1
149.4	62.5°	171.2	231.8	289.7	348.9	403.0	462.2	488.0	544.6	552.3
97.9	65°	119.7	162.2	229.2	274.2	334.8	378.5	412.0	460.9	469.9
57.9	67.5°	77.3	117.2	181.5	221.5	276.8	314.2	348.9	387.5	399.1
37.3	70°	46.4	88.8	135.2	177.7	227.9	261.4	294.8	328.3	334.8
18.0	72.5°	29.6	61.8	97.9	144.2	182.8	218.9	248.5	273.0	253.6
11.6	75°	16.7	42.5	77.3	113.3	148.1	182.8	207.3	220.2	176.4
7.7	77.5°	10.3	30.9	63.1	91.4	114.6	146.8	162.2	170.0	126.2
5.2	80°	6.4	23.2	52.8	74.7	74.7	108.2	126.2	132.6	91.4
3.9	82.5°	5.2	16.7	41.2	56.7	50.2	81.1	99.1	100.4	64.4
2.6	85°	3.9	12.9	25.8	37.3	34.8	56.7	57.9	64.4	42.5
2.6	87.5°	2.6	7.7	15.5	21.9	19.3	27.0	30.9	34.8	23.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
11975.0
<i>11623.6</i>
11429.1
11144.6
10611.6
10038.6
9374.3
8709.9
7978.6
7273.1
6562.4
5923.8
5287.8
4667.2
4091.7
3539.3
2989.6
2441.1
1960.9
1606.8
1323.6
1094.4
910.3
766.1
647.6
549.8
467.4
397.8
329.6
235.6
167.4
118.5
85.0
59.2
38.6
20.6
0.0

(END OF REPORT)