

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: P638020

Luminaire Tested: **IFLD-S-SA3C-830-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638020  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-830-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (48) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14192.3 lumens  
Efficiency: N/A  
Efficacy: 88.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G1

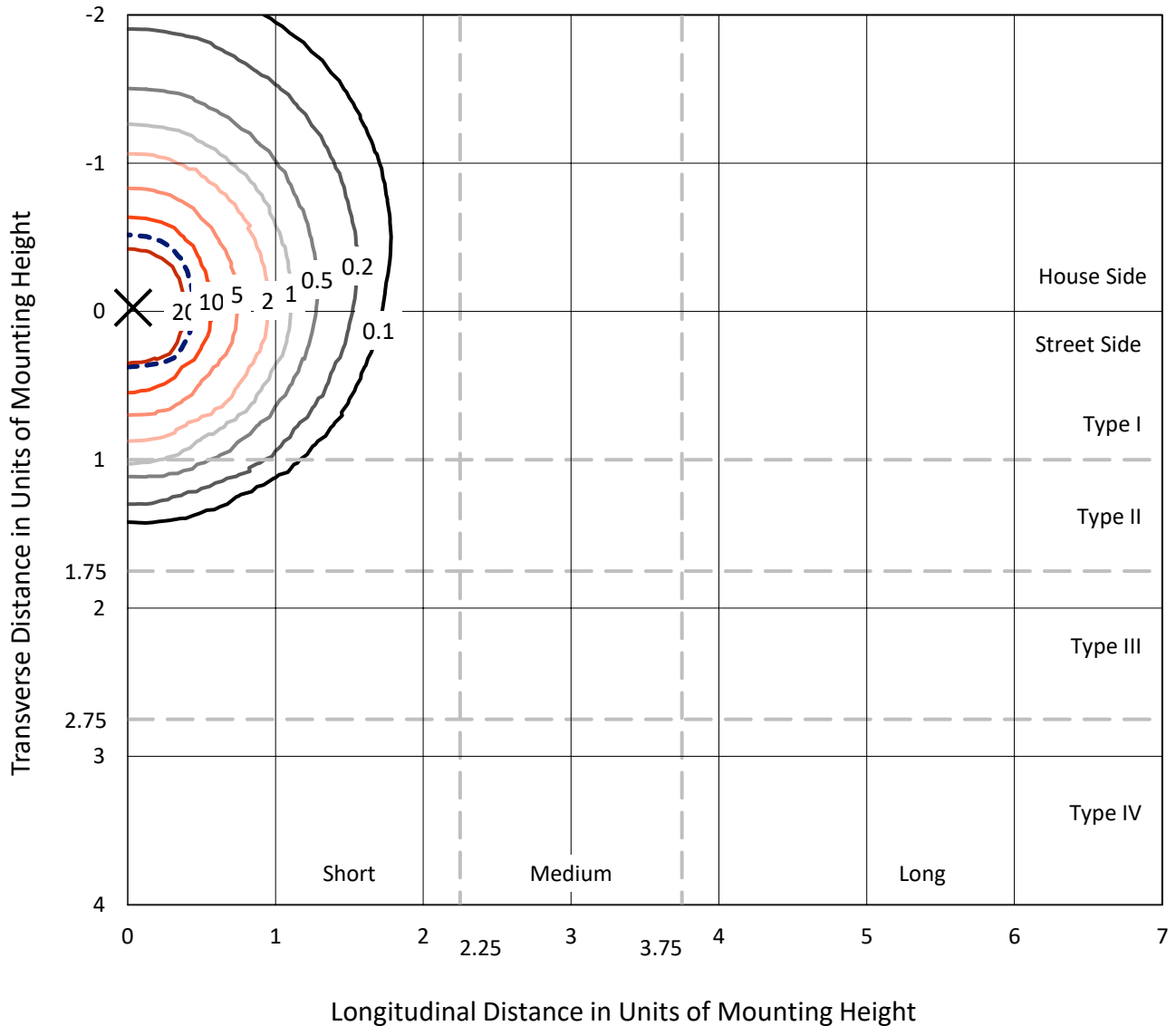
Input Watts (W): 160.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

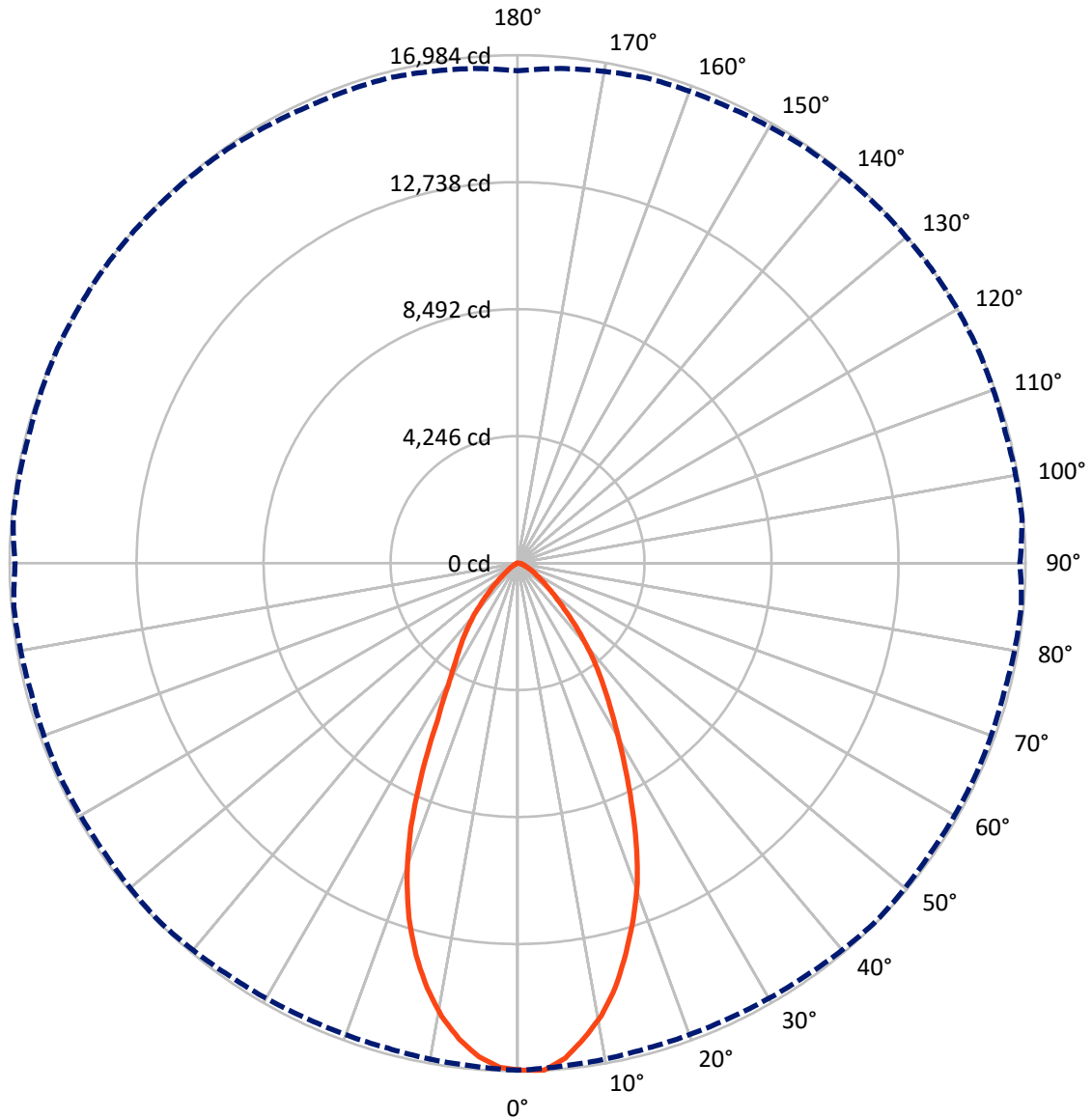
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 42.4 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
<b>House Side</b>	Lumens	8053.3	0.0	8053.3
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	6139.0	0.0	6139.0
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	14192.3	0.0	14192.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1539.7	10.8
10°-20°	3670.3	25.9
20°-30°	3738.1	26.3
30°-40°	2787.5	19.6
40°-50°	1456.3	10.3
50°-60°	612.5	4.3
60°-70°	250.2	1.8
70°-80°	105.3	0.7
80°-90°	32.4	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°	14192.3	100.0
0°-180°	14192.3	100.0



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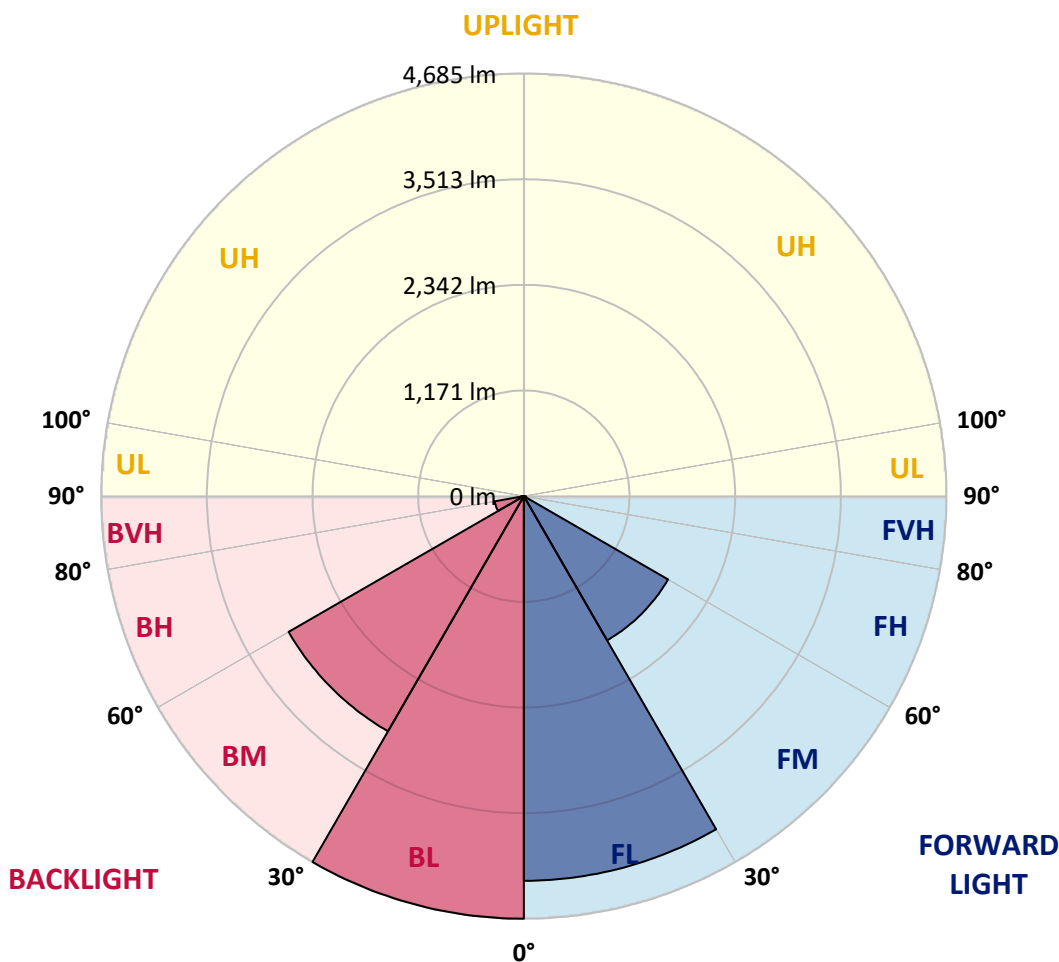
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4263.5	30.0			
FM (30°-60°)	1845.8	13.0			
FH (60°-80°)	26.7	0.2			G0/660
FVH (80°-90°)	3.0	0.0			G0/10
BL (0°-30°)	4684.6	33.0	B4/5000		
BM (30°-60°)	3010.5	21.2	B3/5000		
BH (60°-80°)	328.7	2.3	B1/500		G1/500
BVH (80°-90°)	29.4	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°	16956.3	16956.3	16956.3	16956.3	16956.3	16956.3	16956.3	16956.3	16956.3	16956.3
2.5°	16958.2	16888.9	16790.4	16781.3	16832.4	16943.6	16872.5	16876.1	16832.4	16907.1
5°	16692.0	16626.4	16558.9	16469.6	16544.3	16591.7	16555.3	16515.2	16458.6	16531.6
7.5°	16188.8	16152.4	16052.1	16012.0	16057.6	16110.4	16032.0	16021.1	15942.7	16037.5
10°	15419.5	15404.9	15306.5	15282.8	15322.9	15403.1	15368.4	15361.2	15311.9	15302.8
12.5°	14621.0	14564.5	14442.3	14435.0	14495.2	14615.5	14522.5	14433.2	14460.6	14484.3
15°	12564.6	12504.4	12807.0	13282.9	13532.6	13523.5	13550.8	13443.3	13410.5	13421.4
17.5°	9988.6	9886.5	9995.9	10732.4	11919.2	12608.3	12418.7	12187.2	12063.2	11981.2
20°	8621.3	8626.7	8606.7	8796.3	9536.5	11107.9	11062.4	10615.7	10453.5	10386.0
22.5°	7790.0	7759.0	7715.2	7775.4	7974.1	8896.6	9514.6	9104.4	9047.9	8973.1
25°	6975.0	6975.0	6922.2	6982.3	7038.9	7051.6	7671.5	7839.2	7729.8	7729.8
27.5°	6269.5	6233.1	6209.4	6236.7	6162.0	5802.8	5881.2	6739.9	6665.1	6619.6
30°	5569.5	5558.5	5518.4	5554.9	5277.8	4873.1	4709.0	5688.0	5766.4	5749.9
32.5°	4597.8	4641.5	4820.2	4876.7	4402.7	4076.4	3919.6	4721.7	5035.3	5022.5
35°	3124.7	3161.2	3365.4	4039.9	3649.8	3416.4	3370.8	3755.5	4271.4	4320.7
37.5°	2488.5	2483.0	2541.4	2661.7	2933.3	2876.8	2864.0	2964.3	3483.9	3505.8
40°	2050.9	2043.7	2041.8	1943.4	1875.9	2391.9	2357.2	2297.1	2747.4	2791.1
42.5°	1653.5	1660.8	1666.3	1451.2	1352.7	1844.9	1824.9	1762.9	2154.9	2205.9
45°	1298.0	1296.2	1307.1	1081.1	1053.7	1179.5	1363.7	1314.4	1626.2	1680.9
47.5°	672.7	696.4	844.1	836.8	849.5	836.8	1031.9	1019.1	1223.3	1310.8
50°	452.1	459.4	472.2	474.0	669.1	616.2	700.1	793.0	856.8	991.7
52.5°	350.0	355.5	322.7	302.6	410.2	455.8	459.4	548.7	598.0	734.7
55°	195.1	218.8	235.2	237.0	226.1	337.3	335.4	406.5	444.8	536.0
57.5°	25.5	31.0	47.4	153.1	151.3	187.8	235.2	295.3	317.2	392.0
60°	1.8	3.6	5.5	23.7	100.3	109.4	160.4	184.1	220.6	275.3
62.5°	0.0	0.0	1.8	5.5	20.1	63.8	83.9	96.6	129.4	180.5
65°	0.0	0.0	1.8	3.6	7.3	23.7	32.8	52.9	76.6	111.2
67.5°	0.0	0.0	1.8	3.6	5.5	9.1	14.6	23.7	40.1	67.5
70°	0.0	0.0	1.8	3.6	5.5	7.3	10.9	14.6	21.9	36.5
72.5°	0.0	0.0	1.8	1.8	3.6	9.1	9.1	10.9	14.6	20.1
75°	0.0	0.0	1.8	3.6	5.5	9.1	9.1	9.1	10.9	12.8
77.5°	0.0	0.0	1.8	3.6	5.5	9.1	7.3	9.1	9.1	9.1
80°	0.0	0.0	1.8	3.6	5.5	9.1	10.9	9.1	7.3	7.3
82.5°	0.0	0.0	1.8	5.5	5.5	12.8	12.8	12.8	5.5	5.5
85°	0.0	0.0	3.6	5.5	9.1	14.6	14.6	10.9	5.5	3.6
87.5°	0.0	0.0	1.8	3.6	3.6	7.3	10.9	9.1	3.6	1.8
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°
16956.3	0°	16956.3	16956.3	16956.3	16956.3	16956.3	16956.3	16956.3	16956.3	16956.3
16797.7	2.5°	16932.6	16887.1	16972.7	16983.7	16947.2	16901.6	16795.9	16786.8	16602.7
16425.8	5°	16611.8	16537.0	16591.7	16628.2	16615.4	16566.2	16522.4	16482.3	16316.4
15822.4	7.5°	16013.8	15986.5	16012.0	16039.3	16092.2	16039.3	16021.1	15979.2	15815.1
15228.1	10°	15350.2	15299.2	15395.8	15383.0	15368.4	15353.9	15277.3	15284.6	15091.3
14418.6	12.5°	14535.3	14449.6	14542.6	14553.5	14542.6	14491.5	14405.9	14442.3	14265.5
13324.8	15°	13439.6	13430.5	13498.0	13541.7	13572.7	13518.0	13488.9	13507.1	13401.4
11917.4	17.5°	12094.2	12212.7	12433.3	12508.1	12509.9	12566.4	12550.0	12528.1	12449.7
10358.7	20°	10511.8	10739.7	11078.8	11427.0	11527.2	11479.8	11458.0	11498.1	11381.4
8894.7	22.5°	9051.5	9246.6	9640.4	10149.0	10442.5	10471.7	10466.2	10431.6	10386.0
7722.5	25°	7811.8	7985.0	8362.4	8827.3	9390.6	9474.5	9478.1	9467.2	9427.1
6659.7	27.5°	6765.4	6975.0	7182.9	7598.5	8198.3	8544.7	8501.0	8488.2	8473.6
5762.7	30°	5817.4	6081.7	6276.8	6535.7	7073.5	7542.0	7587.6	7565.7	7531.1
5020.7	32.5°	5066.3	5223.1	5471.0	5646.0	6032.5	6563.0	6738.1	6721.6	6690.7
4351.7	35°	4413.6	4475.6	4670.7	4865.8	5122.8	5636.9	5895.8	5859.3	5853.9
3545.9	37.5°	3635.2	3843.0	3950.6	4147.5	4328.0	4727.2	5084.5	5068.1	5069.9
2851.3	40°	2935.1	3055.5	3268.8	3434.7	3600.6	3892.2	4289.7	4300.6	4297.0
2207.7	42.5°	2253.3	2370.0	2594.2	2774.7	2922.4	3102.9	3482.1	3494.8	3511.2
1719.2	45°	1759.3	1834.0	1998.1	2185.9	2342.6	2452.0	2740.1	2822.1	2823.9
1332.7	47.5°	1365.5	1451.2	1567.8	1748.3	1901.5	1979.8	2189.5	2300.7	2295.2
1022.7	50°	1072.0	1150.4	1245.2	1387.4	1553.3	1615.2	1770.2	1879.6	1874.1
771.2	52.5°	820.4	920.6	1004.5	1113.9	1276.1	1329.0	1440.2	1566.0	1547.8
565.2	55°	621.7	723.8	802.1	893.3	1041.0	1108.4	1185.0	1285.3	1288.9
437.5	57.5°	468.5	574.3	645.4	738.3	849.5	924.3	982.6	1090.2	1088.4
299.0	60°	335.4	426.6	512.3	608.9	694.6	780.3	820.4	922.5	926.1
211.5	62.5°	242.5	328.2	410.2	494.1	570.6	654.5	690.9	771.2	782.1
138.6	65°	169.5	229.7	324.5	388.3	474.0	536.0	583.4	652.7	665.4
82.0	67.5°	109.4	165.9	257.1	313.6	392.0	444.8	494.1	548.7	565.2
52.9	70°	65.6	125.8	191.4	251.6	322.7	370.1	417.5	464.9	474.0
25.5	72.5°	41.9	87.5	138.6	204.2	258.9	309.9	351.9	386.5	359.1
16.4	75°	23.7	60.2	109.4	160.4	209.7	258.9	293.5	311.7	249.8
10.9	77.5°	14.6	43.8	89.3	129.4	162.3	207.8	229.7	240.6	178.7
7.3	80°	9.1	32.8	74.7	105.7	105.7	153.1	178.7	187.8	129.4
5.5	82.5°	7.3	23.7	58.3	80.2	71.1	114.9	140.4	142.2	91.2
3.6	85°	5.5	18.2	36.5	52.9	49.2	80.2	82.0	91.2	60.2
3.6	87.5°	3.6	10.9	21.9	31.0	27.3	38.3	43.8	49.2	32.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
16956.3
16458.6
16183.4
15780.5
15025.7
14214.4
13273.7
12333.0
11297.5
10298.5
9292.2
8387.9
7487.3
6608.6
5793.7
5011.6
4233.2
3456.5
2776.5
2275.2
1874.1
1549.6
1288.9
1084.7
917.0
778.4
661.8
563.3
466.7
333.6
237.0
167.7
120.3
83.9
54.7
29.2
0.0

(END OF REPORT)