

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: P637995

Luminaire Tested: **IFLD-S-SA6B-827-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637995
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-827-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (96) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20690.2 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 244.9
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

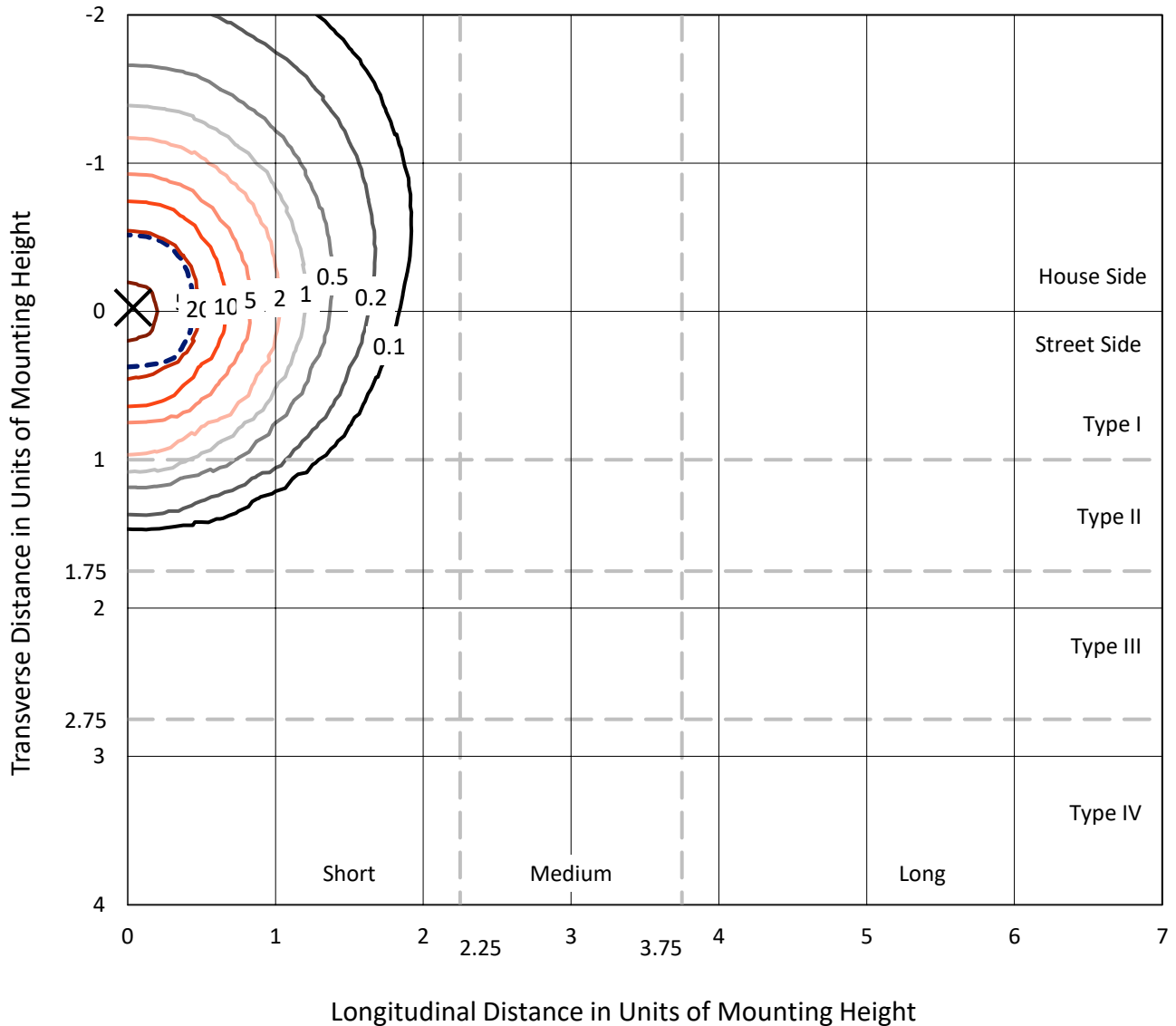




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Iso-Footcandle Lines of Horizontal Illumination

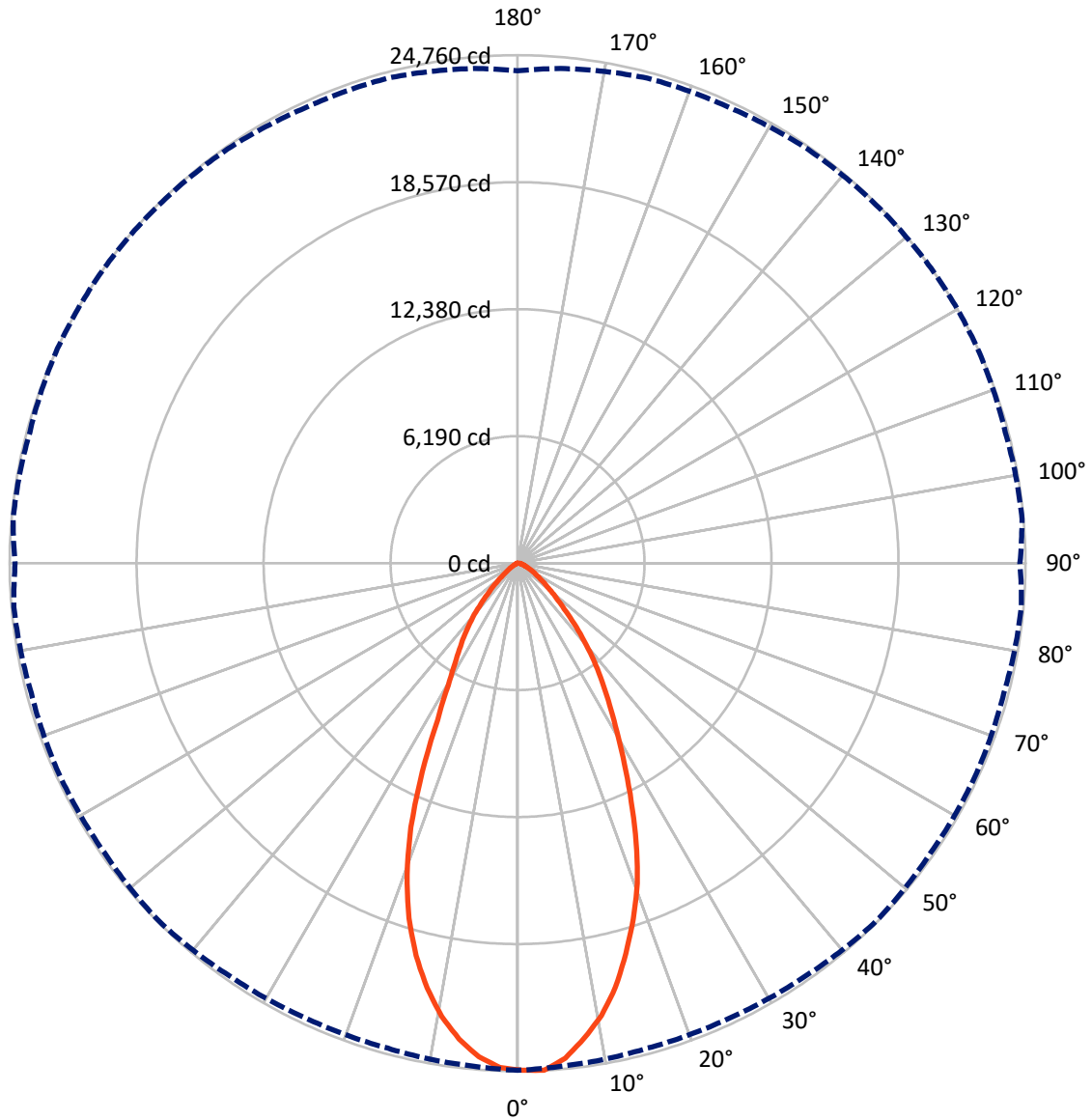
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 61.8 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	11740.5	0.0	11740.5
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	8949.8	0.0	8949.8
	% Fixture	43.3	0.0	43.3
Total	Lumens	20690.2	0.0	20690.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2244.7	10.8
10°-20°	5350.7	25.9
20°-30°	5449.6	26.3
30°-40°	4063.8	19.6
40°-50°	2123.0	10.3
50°-60°	893.0	4.3
60°-70°	364.7	1.8
70°-80°	153.5	0.7
80°-90°	47.3	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°	20690.2	100.0
0°-180°	20690.2	100.0



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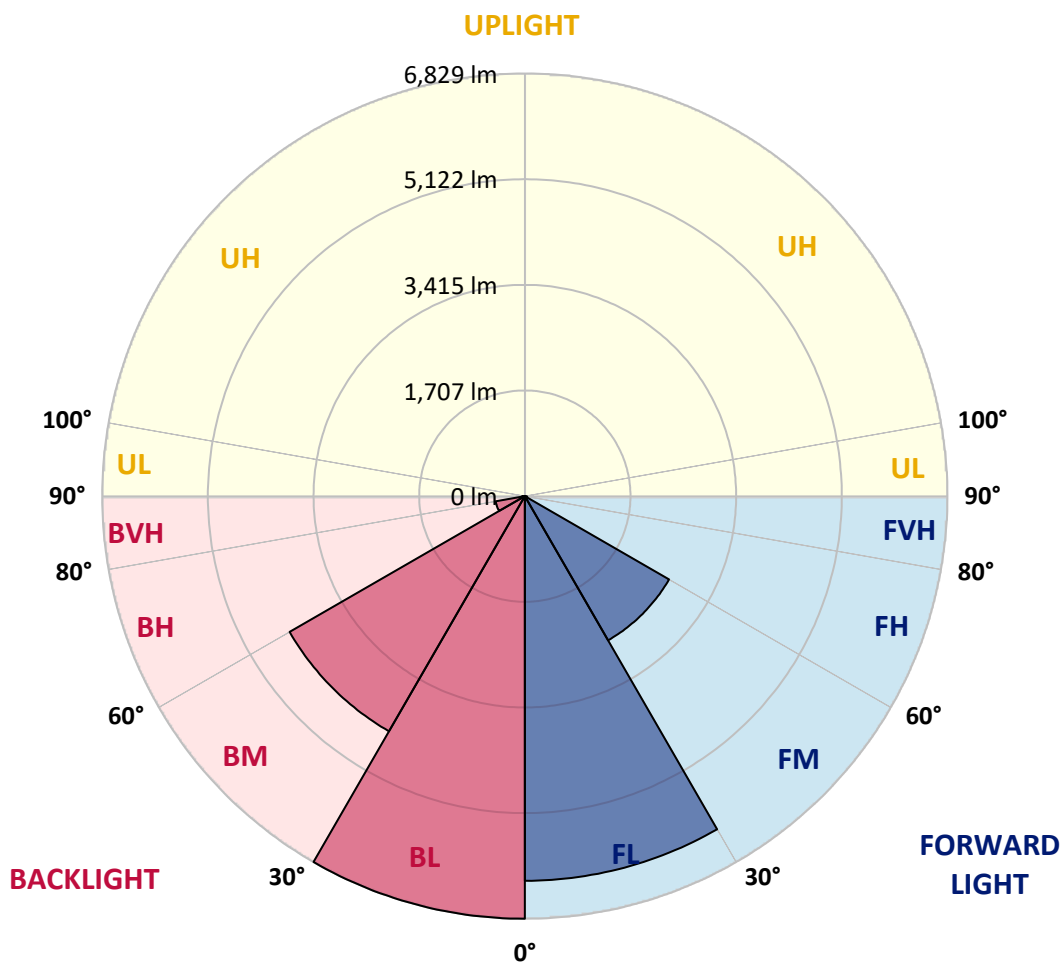
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6215.6	30.0			
FM (30°-60°)	2690.8	13.0			
FH (60°-80°)	38.9	0.2			G0/660
FVH (80°-90°)	4.4	0.0			G0/10
BL (0°-30°)	6829.4	33.0	B5		
BM (30°-60°)	4388.9	21.2	B3/5000		
BH (60°-80°)	479.2	2.3	B1/500		G1/500
BVH (80°-90°)	42.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	24719.8	24719.8	24719.8	24719.8	24719.8	24719.8	24719.8	24719.8	24719.8	24719.8
2.5°	24722.5	24621.5	24478.0	24464.7	24539.1	24701.2	24597.6	24602.9	24539.1	24648.1
5°	24334.4	24238.8	24140.4	24010.2	24119.2	24188.3	24135.1	24076.6	23994.3	24100.6
7.5°	23600.9	23547.8	23401.6	23343.1	23409.5	23486.6	23372.3	23356.4	23242.1	23380.3
10°	22479.3	22458.1	22314.6	22280.0	22338.5	22455.4	22404.9	22394.3	22322.5	22309.2
12.5°	21315.2	21232.8	21054.8	21044.1	21131.8	21307.3	21171.7	21041.5	21081.4	21115.9
15°	18317.3	18229.6	18670.8	19364.4	19728.6	19715.3	19755.1	19598.3	19550.5	19566.4
17.5°	14561.9	14413.0	14572.5	15646.2	17376.4	18381.1	18104.7	17767.1	17586.4	17466.8
20°	12568.5	12576.5	12547.3	12823.7	13902.7	16193.7	16127.3	15476.1	15239.6	15141.3
22.5°	11356.6	11311.4	11247.6	11335.3	11625.0	12969.9	13870.8	13272.9	13190.5	13081.5
25°	10168.6	10168.6	10091.5	10179.2	10261.6	10280.2	11183.9	11428.4	11268.9	11268.9
27.5°	9140.0	9086.9	9052.3	9092.2	8983.2	8459.6	8573.9	9825.7	9716.8	9650.3
30°	8119.5	8103.5	8045.0	8098.2	7694.2	7104.2	6865.0	8292.2	8406.5	8382.6
32.5°	6702.9	6766.7	7027.1	7109.5	6418.5	5942.8	5714.2	6883.6	7340.7	7322.1
35°	4555.4	4608.6	4906.2	5889.6	5320.8	4980.6	4914.2	5475.0	6227.1	6298.9
37.5°	3627.8	3619.9	3704.9	3880.3	4276.3	4193.9	4175.3	4321.5	5079.0	5110.9
40°	2990.0	2979.3	2976.7	2833.2	2734.8	3487.0	3436.5	3348.8	4005.2	4069.0
42.5°	2410.6	2421.2	2429.2	2115.6	1972.1	2689.7	2660.4	2570.1	3141.5	3215.9
45°	1892.3	1889.7	1905.6	1576.1	1536.2	1719.6	1988.0	1916.2	2370.7	2450.5
47.5°	980.7	1015.3	1230.5	1219.9	1238.5	1219.9	1504.3	1485.7	1783.4	1910.9
50°	659.1	669.8	688.4	691.0	975.4	898.3	1020.6	1156.1	1249.1	1445.8
52.5°	510.3	518.3	470.4	441.2	598.0	664.4	669.8	800.0	871.7	1071.1
55°	284.4	318.9	342.9	345.5	329.6	491.7	489.0	592.7	648.5	781.4
57.5°	37.2	45.2	69.1	223.3	220.6	273.7	342.9	430.6	462.5	571.4
60°	2.7	5.3	8.0	34.6	146.2	159.5	233.9	268.4	321.6	401.3
62.5°	0.0	0.0	2.7	8.0	29.2	93.0	122.3	140.9	188.7	263.1
65°	0.0	0.0	2.7	5.3	10.6	34.6	47.8	77.1	111.6	162.1
67.5°	0.0	0.0	2.7	5.3	8.0	13.3	21.3	34.6	58.5	98.3
70°	0.0	0.0	2.7	5.3	8.0	10.6	15.9	21.3	31.9	53.2
72.5°	0.0	0.0	2.7	2.7	5.3	13.3	13.3	15.9	21.3	29.2
75°	0.0	0.0	2.7	5.3	8.0	13.3	13.3	13.3	15.9	18.6
77.5°	0.0	0.0	2.7	5.3	8.0	13.3	10.6	13.3	13.3	13.3
80°	0.0	0.0	2.7	5.3	8.0	13.3	15.9	13.3	10.6	10.6
82.5°	0.0	0.0	2.7	8.0	8.0	18.6	18.6	18.6	8.0	8.0
85°	0.0	0.0	5.3	8.0	13.3	21.3	21.3	15.9	8.0	5.3
87.5°	0.0	0.0	2.7	5.3	5.3	10.6	15.9	13.3	5.3	2.7
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°
24719.8	0°	24719.8	24719.8	24719.8	24719.8	24719.8	24719.8	24719.8	24719.8	24719.8
24488.6	2.5°	24685.3	24618.8	24743.7	24759.7	24706.5	24640.1	24485.9	24472.7	24204.2
23946.4	5°	24217.5	24108.5	24188.3	24241.4	24222.8	24151.1	24087.3	24028.8	23786.9
23066.7	7.5°	23345.8	23305.9	23343.1	23383.0	23460.0	23383.0	23356.4	23295.3	23056.1
22200.3	10°	22378.3	22303.9	22444.8	22426.2	22404.9	22383.7	22272.0	22282.7	22000.9
21020.2	12.5°	21190.3	21065.4	21200.9	21216.9	21200.9	21126.5	21001.6	21054.8	20797.0
19425.6	15°	19593.0	19579.7	19678.1	19741.8	19787.0	19707.3	19664.8	19691.3	19537.2
17373.8	17.5°	17631.6	17804.3	18125.9	18234.9	18237.5	18319.9	18296.0	18264.1	18149.8
15101.4	20°	15324.6	15656.9	16151.2	16658.8	16805.0	16735.9	16704.0	16762.5	16592.4
12967.2	22.5°	13195.8	13480.2	14054.2	14795.7	15223.6	15266.2	15258.2	15207.7	15141.3
11258.3	25°	11388.5	11641.0	12191.1	12868.9	13690.1	13812.4	13817.7	13801.7	13743.3
9708.8	27.5°	9862.9	10168.6	10471.6	11077.5	11951.9	12456.9	12393.1	12374.5	12353.3
8401.2	30°	8480.9	8866.3	9150.7	9528.1	10312.1	10995.2	11061.6	11029.7	10979.2
7319.5	32.5°	7385.9	7614.5	7975.9	8231.1	8794.5	9567.9	9823.1	9799.2	9754.0
6344.1	35°	6434.4	6524.8	6809.2	7093.6	7468.3	8217.8	8595.2	8542.0	8534.1
5169.3	37.5°	5299.6	5602.6	5759.4	6046.4	6309.5	6891.6	7412.5	7388.6	7391.2
4156.7	40°	4279.0	4454.4	4765.4	5007.2	5249.1	5674.3	6253.7	6269.7	6264.3
3218.5	42.5°	3285.0	3455.1	3782.0	4045.1	4260.4	4523.5	5076.3	5094.9	5118.8
2506.3	45°	2564.7	2673.7	2912.9	3186.7	3415.2	3574.7	3994.6	4114.2	4116.9
1942.8	47.5°	1990.7	2115.6	2285.7	2548.8	2772.0	2886.3	3192.0	3354.1	3346.1
1491.0	50°	1562.8	1677.0	1815.2	2022.6	2264.4	2354.8	2580.7	2740.2	2732.2
1124.2	52.5°	1196.0	1342.2	1464.4	1623.9	1860.4	1937.5	2099.6	2283.0	2256.4
823.9	55°	906.3	1055.1	1169.4	1302.3	1517.6	1615.9	1727.5	1873.7	1879.0
637.9	57.5°	683.0	837.2	940.8	1076.4	1238.5	1347.5	1432.5	1589.3	1586.7
435.9	60°	489.0	621.9	746.8	887.7	1012.6	1137.5	1196.0	1344.8	1350.1
308.3	62.5°	353.5	478.4	598.0	720.3	831.9	954.1	1007.3	1124.2	1140.2
202.0	65°	247.2	334.9	473.1	566.1	691.0	781.4	850.5	951.5	970.1
119.6	67.5°	159.5	241.9	374.7	457.1	571.4	648.5	720.3	800.0	823.9
77.1	70°	95.7	183.4	279.1	366.8	470.4	539.5	608.6	677.7	691.0
37.2	72.5°	61.1	127.6	202.0	297.7	377.4	451.8	512.9	563.4	523.6
23.9	75°	34.6	87.7	159.5	233.9	305.6	377.4	427.9	454.5	364.1
15.9	77.5°	21.3	63.8	130.2	188.7	236.5	303.0	334.9	350.8	260.5
10.6	80°	13.3	47.8	109.0	154.2	154.2	223.3	260.5	273.7	188.7
8.0	82.5°	10.6	34.6	85.0	116.9	103.7	167.4	204.6	207.3	132.9
5.3	85°	8.0	26.6	53.2	77.1	71.8	116.9	119.6	132.9	87.7
5.3	87.5°	5.3	15.9	31.9	45.2	39.9	55.8	63.8	71.8	47.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
24719.8
23994.3
23592.9
23005.6
21905.3
20722.6
19351.1
17979.7
16470.1
15013.7
13546.6
12228.4
10915.4
9634.4
8446.4
7306.2
6171.3
5039.1
4047.8
3316.9
2732.2
2259.1
1879.0
1581.4
1336.9
1134.9
964.8
821.2
680.4
486.4
345.5
244.5
175.4
122.3
79.7
42.5
0.0

(END OF REPORT)