

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: P638077

Luminaire Tested: **IFLD-S-SA3B-727-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638077
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-727-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10945.8 lumens
Efficiency: N/A
Efficacy: 89.4 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

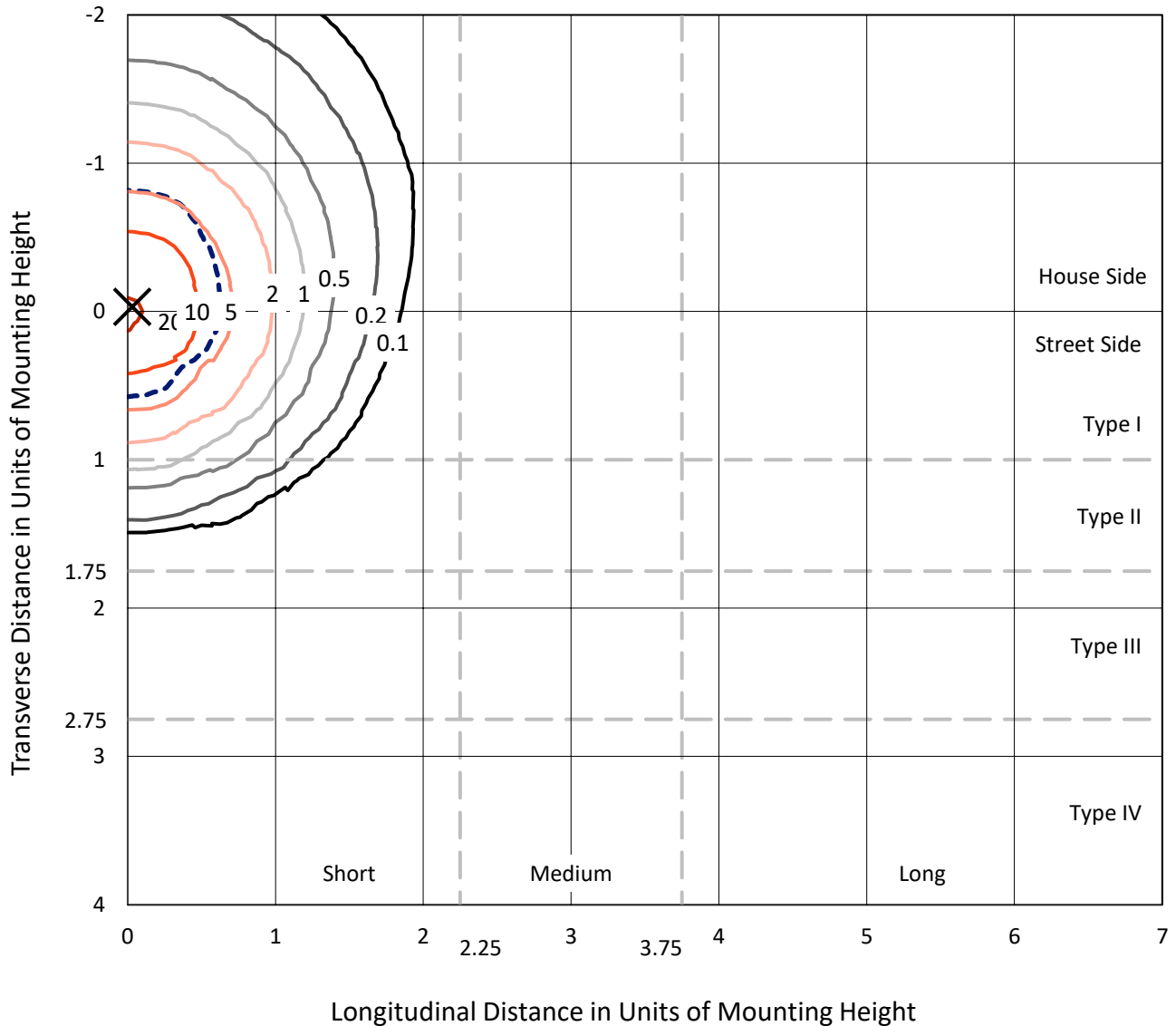
Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

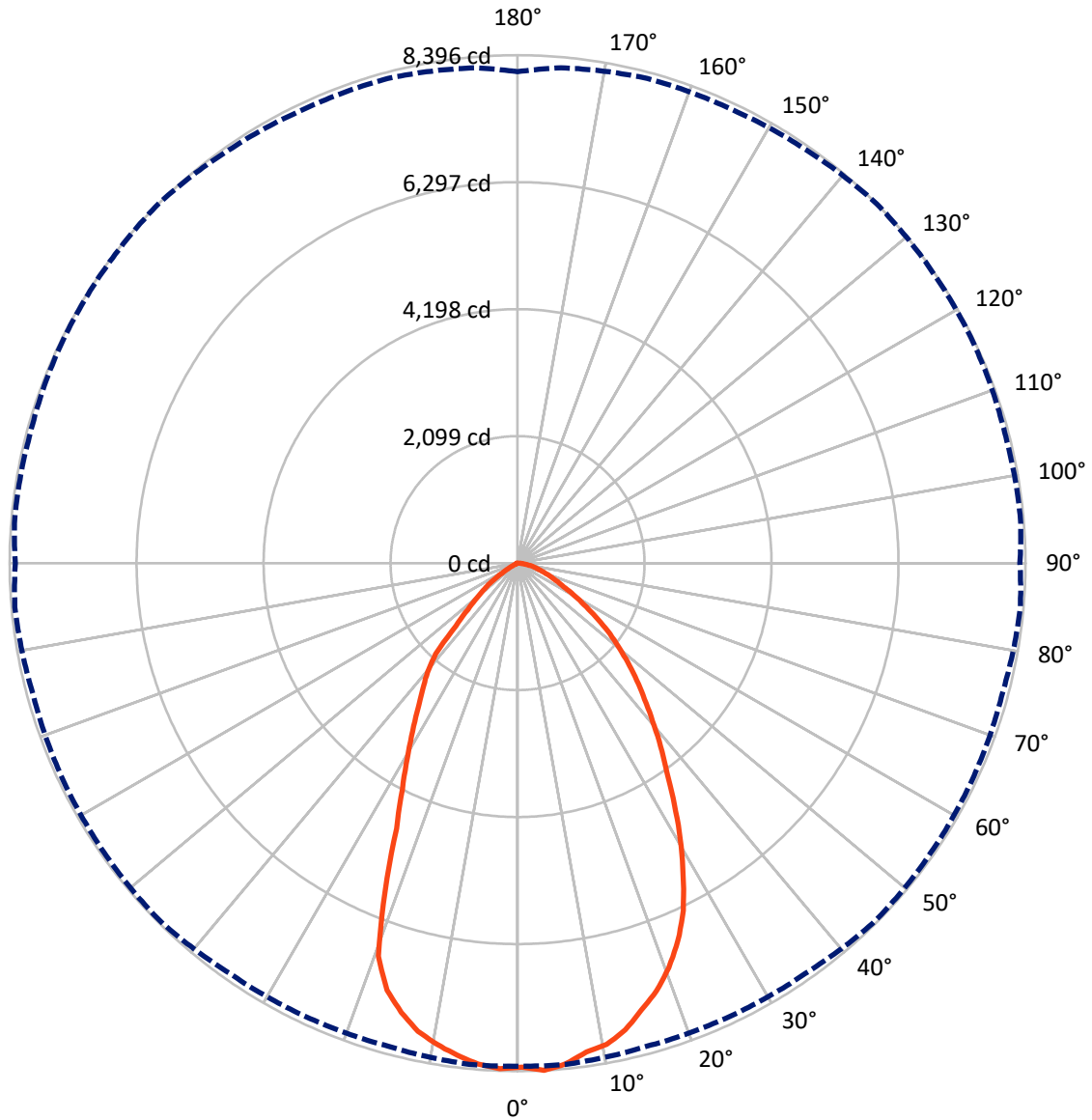
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 20.8 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
House Side	Lumens	6482.7	0.0	6482.7
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	4463.1	0.0	4463.1
	% Fixture	40.8	0.0	40.8
Total	Lumens	10945.8	0.0	10945.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	781.2	7.1
10°-20°	2094.8	19.1
20°-30°	2554.7	23.3
30°-40°	2332.5	21.3
40°-50°	1685.6	15.4
50°-60°	920.4	8.4
60°-70°	380.5	3.5
70°-80°	154.1	1.4
80°-90°	41.9	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°	10945.8	100.0
0°-180°	10945.8	100.0



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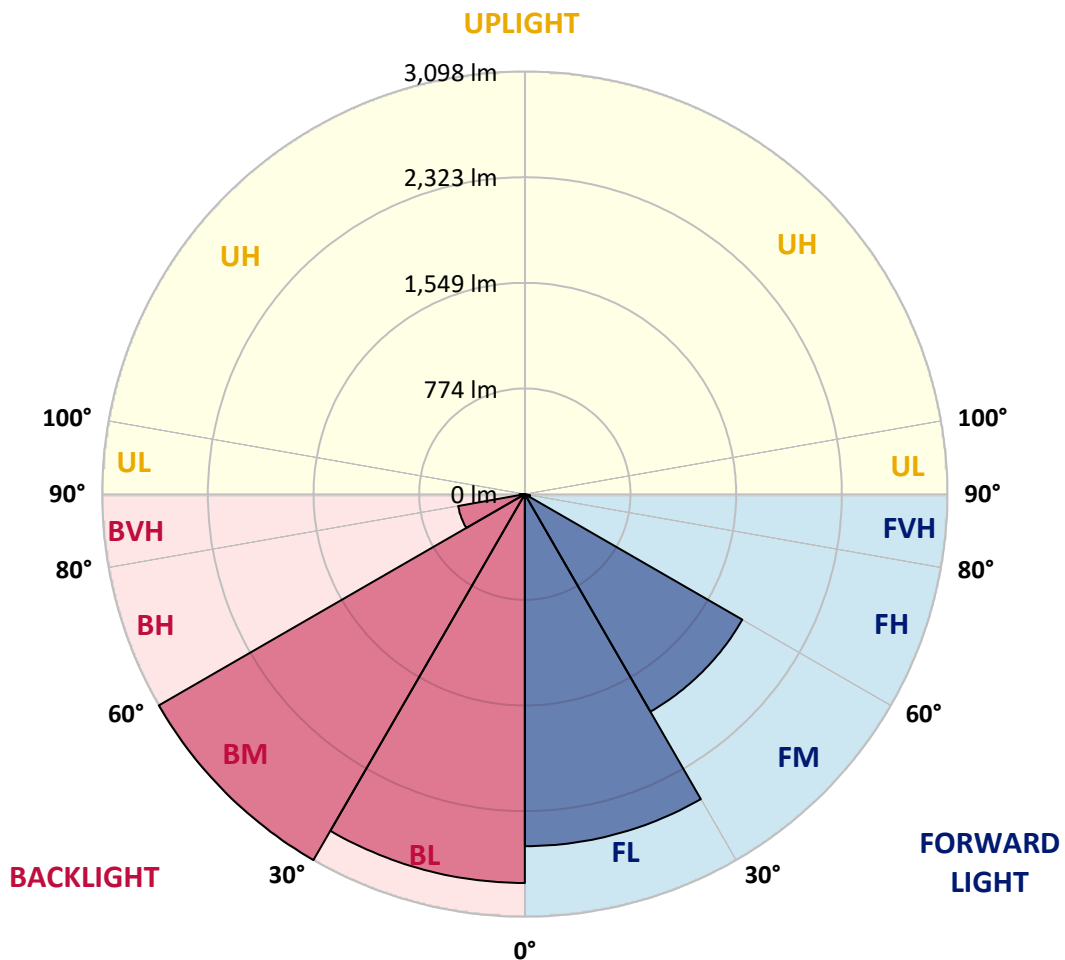
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2580.3	23.6			
FM (30°-60°)	1840.9	16.8			
FH (60°-80°)	38.6	0.4			G0/660
FVH (80°-90°)	3.4	0.0			G0/10
BL (0°-30°)	2850.4	26.0	B4/5000		
BM (30°-60°)	3097.6	28.3	B3/5000		
BH (60°-80°)	496.1	4.5	B1/500		G1/500
BVH (80°-90°)	38.6	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-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8329.7	8329.7	8329.7	8329.7	8329.7	8329.7	8329.7	8329.7	8329.7	8329.7
2.5°	8314.3	8325.1	8266.5	8272.7	8283.5	8362.1	8342.0	8323.5	8297.3	8342.0
5°	8303.5	8309.7	8248.0	8226.4	8235.7	8306.6	8241.8	8241.8	8235.7	8228.0
7.5°	8220.3	8223.3	8175.6	8137.0	8161.7	8194.1	8146.3	8169.4	8135.5	8161.7
10°	8095.4	8075.4	8018.3	8007.5	8035.3	8066.1	8033.8	8055.3	8024.5	8044.5
12.5°	7912.0	7881.2	7834.9	7821.0	7868.8	7910.4	7884.2	7871.9	7831.8	7881.2
15°	7204.5	7181.4	7286.2	7469.6	7634.5	7670.0	7642.2	7654.6	7571.3	7585.2
17.5°	5929.7	5886.6	5999.1	6433.8	7053.4	7380.2	7355.5	7275.4	7152.1	7179.8
20°	5388.7	5376.4	5364.1	5467.3	5900.5	6891.6	6925.5	6722.0	6546.3	6507.8
22.5°	5083.5	5078.9	5066.6	5089.7	5203.8	5840.3	6228.8	6040.7	5923.6	5912.8
25°	4804.5	4796.8	4759.8	4789.1	4789.1	4826.1	5324.0	5438.0	5334.8	5322.4
27.5°	4520.9	4507.0	4500.9	4514.7	4443.8	4194.1	4320.5	4877.0	4823.0	4826.1
30°	4214.2	4209.6	4192.6	4221.9	4003.0	3693.2	3613.0	4368.3	4379.1	4376.0
32.5°	3757.9	3778.0	3855.0	3887.4	3526.7	3270.8	3136.7	3779.5	3999.9	3995.3
35°	2729.8	2729.8	2981.1	3448.1	3090.5	2897.8	2825.4	3204.6	3625.4	3640.8
37.5°	2244.3	2252.0	2301.3	2514.0	2666.6	2598.8	2577.2	2697.4	3144.4	3169.1
40°	2019.2	2019.2	2019.2	1931.4	1926.7	2341.4	2329.0	2290.5	2715.9	2769.9
42.5°	1814.2	1818.8	1821.9	1600.0	1476.7	2023.9	1996.1	1937.5	2332.1	2395.3
45°	1603.1	1610.8	1620.0	1337.9	1284.0	1456.6	1689.4	1624.6	1952.9	2034.6
47.5°	978.8	991.1	1200.7	1134.5	1140.6	1123.7	1378.0	1367.2	1601.5	1717.1
50°	661.3	665.9	685.9	719.8	978.8	883.2	975.7	1131.4	1216.2	1391.9
52.5°	554.9	562.6	513.3	467.0	642.8	690.5	681.3	840.1	874.0	1091.3
55°	390.0	414.6	391.5	386.9	365.3	536.4	516.4	645.8	667.4	829.3
57.5°	40.1	46.2	80.2	288.2	238.9	303.7	368.4	473.2	494.8	611.9
60°	3.1	3.1	7.7	40.1	174.2	181.9	254.3	291.3	332.9	427.0
62.5°	0.0	1.5	3.1	6.2	27.7	97.1	127.9	152.6	200.4	275.9
65°	0.0	0.0	1.5	4.6	6.2	37.0	49.3	80.2	109.4	171.1
67.5°	0.0	0.0	1.5	3.1	4.6	9.2	17.0	29.3	58.6	97.1
70°	0.0	0.0	1.5	3.1	4.6	7.7	12.3	18.5	26.2	52.4
72.5°	0.0	0.0	1.5	1.5	3.1	7.7	9.2	12.3	18.5	26.2
75°	0.0	0.0	1.5	1.5	4.6	9.2	7.7	9.2	12.3	17.0
77.5°	0.0	0.0	1.5	3.1	4.6	9.2	7.7	9.2	9.2	10.8
80°	0.0	0.0	1.5	3.1	6.2	10.8	9.2	9.2	7.7	7.7
82.5°	0.0	0.0	1.5	4.6	6.2	13.9	13.9	12.3	6.2	4.6
85°	0.0	0.0	3.1	6.2	9.2	15.4	15.4	12.3	4.6	3.1
87.5°	0.0	0.0	3.1	4.6	7.7	10.8	15.4	12.3	4.6	1.5
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°
8329.7	0°	8329.7	8329.7	8329.7	8329.7	8329.7	8329.7	8329.7	8329.7	8329.7
8303.5	2.5°	8345.1	8335.9	8366.7	8379.0	8396.0	8331.2	8291.2	8292.7	8218.7
8209.5	5°	8258.8	8260.3	8300.4	8297.3	8314.3	8278.8	8263.4	8237.2	8172.5
8090.8	7.5°	8149.4	8135.5	8174.0	8203.3	8160.1	8184.8	8149.4	8161.7	8123.2
7986.0	10°	8064.6	8032.2	8067.7	8087.7	8089.2	8064.6	8030.7	7998.3	7984.4
7822.6	12.5°	7876.5	7834.9	7895.0	7922.8	7918.1	7870.4	7831.8	7839.5	7794.8
7535.9	15°	7617.6	7619.1	7662.3	7688.5	7663.8	7653.0	7656.1	7637.6	7599.1
7139.7	17.5°	7221.4	7244.6	7358.6	7421.8	7435.7	7414.1	7403.3	7381.7	7343.2
6507.8	20°	6561.7	6700.4	6903.9	7099.7	7138.2	7132.0	7093.5	7084.3	7062.7
5882.0	22.5°	5982.2	6085.4	6321.3	6626.5	6783.7	6799.1	6752.9	6739.0	6715.9
5322.4	25°	5382.6	5493.5	5706.2	6037.6	6362.9	6429.2	6421.5	6379.8	6355.2
4826.1	27.5°	4877.0	4988.0	5180.6	5479.7	5828.0	6040.7	6060.8	5994.5	5992.9
4383.7	30°	4420.7	4573.3	4719.8	4963.3	5300.9	5619.9	5653.8	5607.6	5612.2
3978.3	32.5°	4063.1	4189.5	4314.4	4477.8	4758.3	5129.8	5262.3	5219.2	5202.2
3640.8	35°	3697.8	3784.1	3912.1	4061.6	4252.7	4621.1	4850.8	4818.4	4801.4
3184.5	37.5°	3281.6	3429.6	3522.1	3690.1	3839.6	4132.5	4456.2	4451.5	4416.1
2796.1	40°	2854.7	3010.3	3150.6	3320.2	3435.8	3668.5	4027.7	4026.1	4030.7
2393.8	42.5°	2467.8	2611.1	2780.7	2965.6	3076.6	3246.2	3631.5	3653.1	3679.3
2062.4	45°	2117.9	2247.4	2404.6	2629.6	2763.7	2860.8	3203.0	3301.7	3300.1
1766.4	47.5°	1803.4	1925.2	2057.8	2276.6	2447.7	2535.6	2819.2	2959.5	2950.2
1448.9	50°	1513.7	1621.5	1760.3	1919.0	2148.7	2225.8	2436.9	2621.9	2608.0
1154.5	52.5°	1217.7	1367.2	1484.4	1629.3	1871.3	1946.8	2110.2	2290.5	2279.7
866.3	55°	949.5	1094.4	1236.2	1361.1	1564.5	1677.0	1794.2	1979.2	1976.1
678.2	57.5°	718.3	877.1	1011.2	1129.8	1291.7	1430.4	1524.4	1692.5	1714.0
464.0	60°	531.8	653.6	798.4	931.0	1058.9	1202.3	1265.5	1430.4	1439.7
317.5	62.5°	362.2	496.3	638.1	758.4	853.9	1001.9	1058.9	1194.6	1211.5
203.5	65°	251.2	337.6	499.4	585.7	702.9	829.3	886.3	994.2	1028.1
117.1	67.5°	166.5	240.5	390.0	468.6	584.2	670.5	743.0	830.8	867.8
74.0	70°	90.9	177.3	279.0	369.9	470.1	553.4	624.3	695.2	727.5
33.9	72.5°	61.7	118.7	194.2	292.9	379.2	460.9	524.1	576.5	578.0
20.0	75°	30.8	80.2	148.0	226.6	295.9	376.1	433.1	464.0	427.0
12.3	77.5°	18.5	58.6	120.2	181.9	240.5	303.7	336.0	353.0	292.9
9.2	80°	10.8	41.6	94.0	144.9	166.5	223.5	254.3	259.0	195.8
6.2	82.5°	7.7	30.8	74.0	106.4	101.7	157.2	191.1	185.0	124.9
4.6	85°	4.6	21.6	46.2	66.3	61.7	103.3	111.0	114.1	72.4
3.1	87.5°	3.1	12.3	24.7	35.5	29.3	44.7	44.7	53.9	35.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
8329.7
8123.2
8157.1
8058.4
7922.8
7756.3
7560.5
7326.3
7013.3
6709.7
6329.0
5989.9
5589.1
5203.8
4778.3
4445.4
4030.7
3665.4
3303.2
2953.3
2620.4
2302.8
1983.8
1704.8
1453.5
1214.6
1020.4
863.2
715.2
564.2
399.2
282.1
183.4
115.6
66.3
30.8
0.0

(END OF REPORT)