

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: P638180

Luminaire Tested: **IFLD-L-SA7C-740-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638180
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-740-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34098.6 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

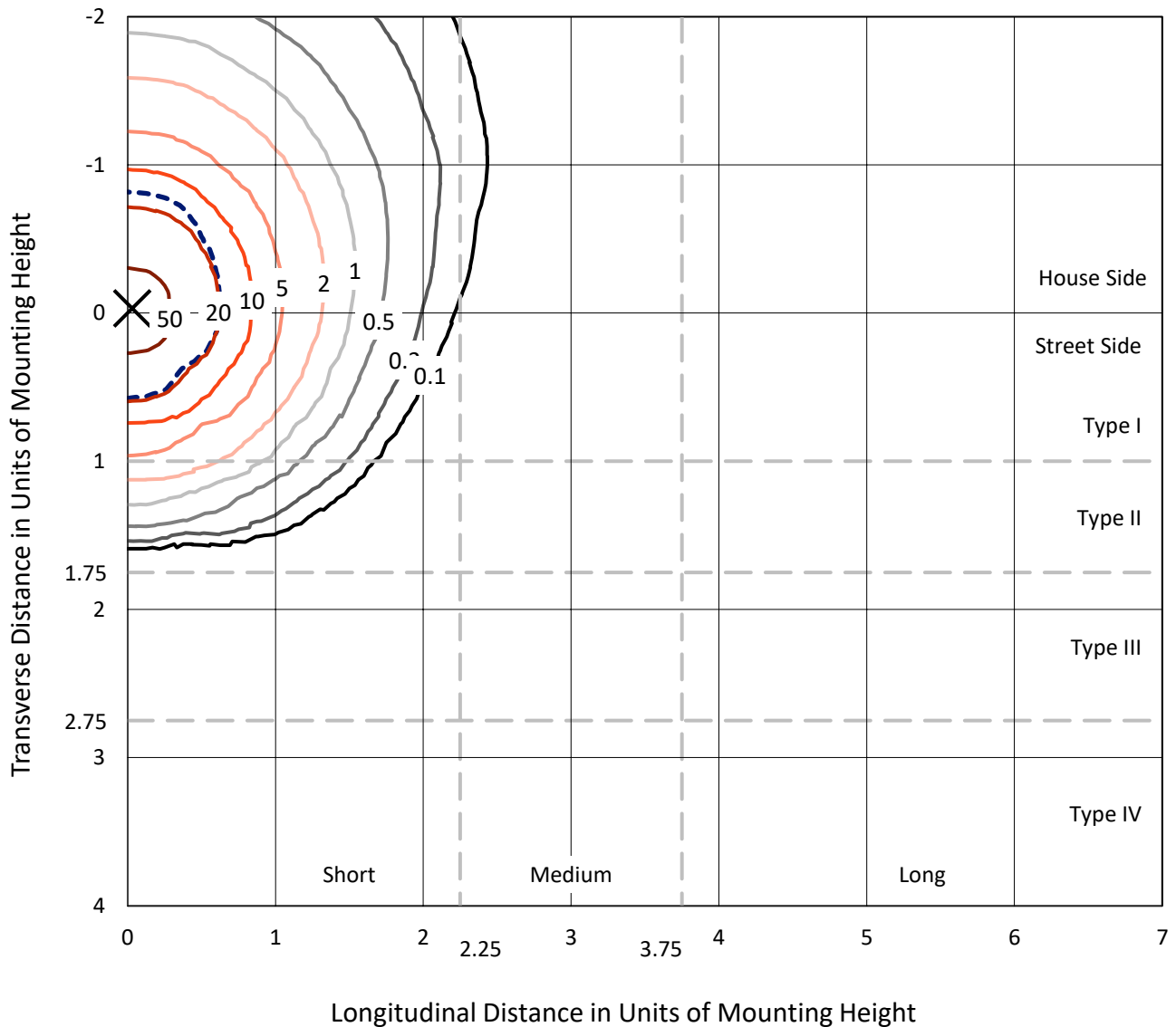
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

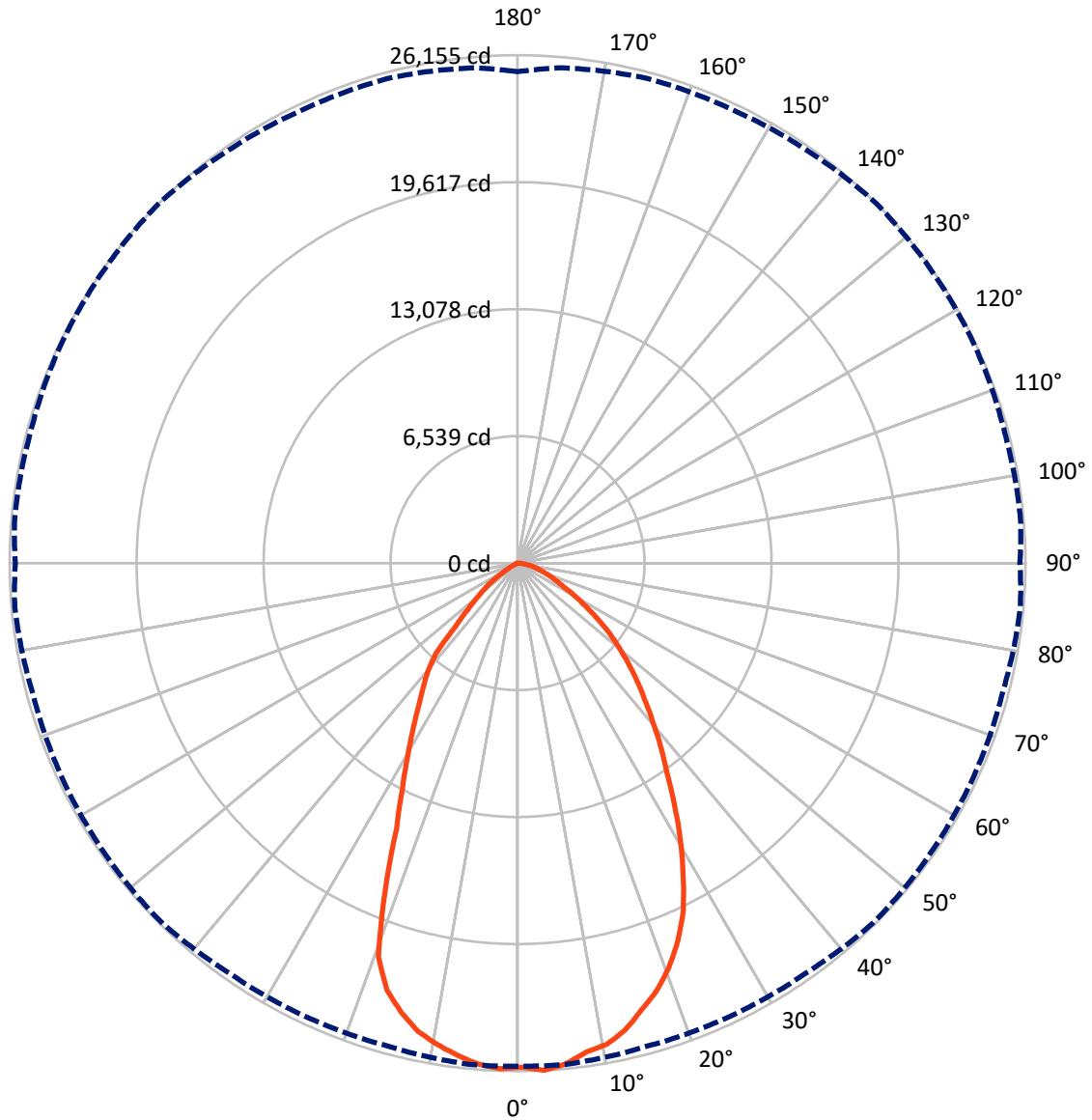
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 64.9 fc
 Type I - Short - N/A

REPORT NUMBER: P638180
CATALOG NUMBER: IFLD-L-SA7C-740-U-77-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

REPORT NUMBER: P638180

CATALOG NUMBER: IFLD-L-SA7C-740-U-77-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20194.9	0.0	20194.9
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	13903.7	0.0	13903.7
	% Fixture	40.8	0.0	40.8
Total	Lumens	34098.6	0.0	34098.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2433.6	7.1
10°-20°	6525.8	19.1
20°-30°	7958.6	23.3
30°-40°	7266.1	21.3
40°-50°	5251.1	15.4
50°-60°	2867.1	8.4
60°-70°	1185.5	3.5
70°-80°	480.1	1.4
80°-90°	130.6	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°	34098.6	100.0
0°-180°	34098.6	100.0



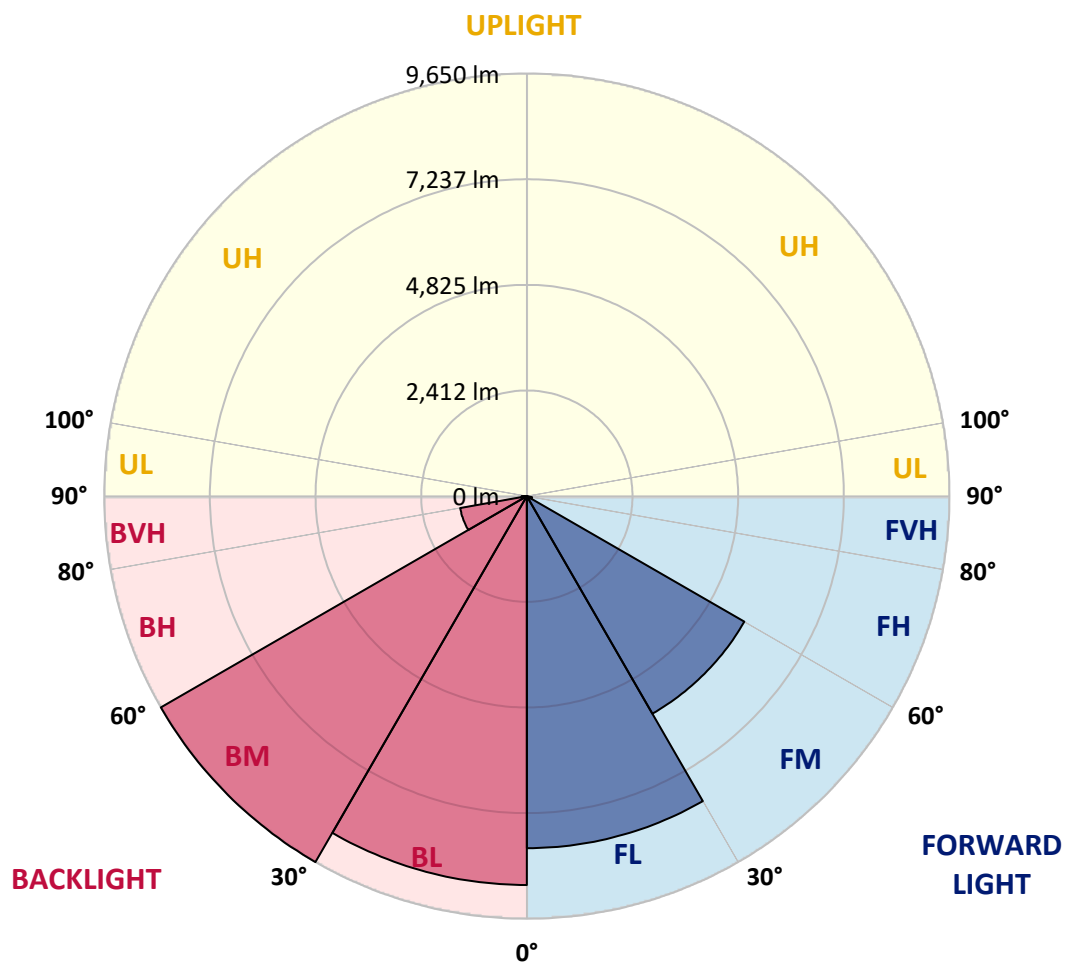
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8038.3	23.6			
FM (30°-60°)	5734.8	16.8			
FH (60°-80°)	120.1	0.4			G0/660
FVH (80°-90°)	10.5	0.0			G1/100
BL (0°-30°)	8879.8	26.0	B5		
BM (30°-60°)	9649.6	28.3	B5		
BH (60°-80°)	1545.4	4.5	B3/2500		G3/2500
BVH (80°-90°)	120.1	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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 CATALOG NUMBER: IFLD-L-SA7C-740-U-77-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	25948.9	25948.9	25948.9	25948.9	25948.9	25948.9	25948.9	25948.9	25948.9	25948.9
2.5°	25900.9	25934.5	25752.1	25771.3	25804.9	26049.8	25987.3	25929.7	25848.1	25987.3
5°	25867.3	25886.5	25694.4	25627.2	25656.0	25876.9	25675.2	25675.2	25656.0	25632.0
7.5°	25608.0	25617.6	25468.7	25348.7	25425.5	25526.4	25377.5	25449.5	25343.9	25425.5
10°	25219.1	25156.6	24979.0	24945.4	25031.8	25127.8	25027.0	25094.2	24998.2	25060.6
12.5°	24647.6	24551.6	24407.5	24364.3	24513.2	24642.8	24561.2	24522.8	24397.9	24551.6
15°	22443.6	22371.6	22698.1	23269.5	23783.3	23893.8	23807.3	23845.7	23586.4	23629.7
17.5°	18472.5	18338.1	18688.6	20042.7	21973.0	22991.0	22914.2	22664.5	22280.4	22366.8
20°	16787.1	16748.7	16710.3	17032.0	18381.3	21468.8	21574.5	20940.6	20393.2	20273.2
22.5°	15836.3	15821.9	15783.5	15855.5	16210.9	18194.0	19404.1	18818.3	18453.3	18419.7
25°	14967.2	14943.2	14828.0	14919.2	14919.2	15034.4	16585.4	16940.8	16619.0	16580.6
27.5°	14083.7	14040.5	14021.3	14064.5	13843.6	13065.7	13459.4	15192.9	15024.8	15034.4
30°	13128.1	13113.7	13060.9	13152.1	12470.3	11505.1	11255.4	13608.3	13641.9	13632.3
32.5°	11706.8	11769.2	12009.3	12110.1	10986.5	10189.4	9771.7	11774.0	12460.7	12446.3
35°	8504.0	8504.0	9286.7	10741.6	9627.6	9027.4	8801.7	9982.9	11293.8	11341.9
37.5°	6991.4	7015.4	7169.1	7831.7	8307.1	8095.8	8028.6	8403.2	9795.7	9872.5
40°	6290.4	6290.4	6290.4	6016.7	6002.3	7293.9	7255.5	7135.5	8460.8	8628.8
42.5°	5651.7	5666.1	5675.7	4984.3	4600.1	6304.8	6218.3	6035.9	7265.1	7462.0
45°	4993.9	5017.9	5046.7	4168.0	3999.9	4537.7	5262.8	5061.1	6083.9	6338.4
47.5°	3049.1	3087.6	3740.6	3534.1	3553.3	3500.5	4292.8	4259.2	4989.1	5349.2
50°	2060.0	2074.4	2136.8	2242.4	3049.1	2751.4	3039.5	3524.5	3788.6	4336.0
52.5°	1728.6	1752.7	1599.0	1454.9	2002.4	2151.2	2122.4	2617.0	2722.6	3399.7
55°	1214.9	1291.7	1219.7	1205.3	1138.0	1671.0	1608.6	2012.0	2079.2	2583.4
57.5°	124.8	144.1	249.7	897.9	744.3	946.0	1147.6	1474.2	1541.4	1906.3
60°	9.6	9.6	24.0	124.8	542.6	566.6	792.3	907.5	1037.2	1330.1
62.5°	0.0	4.8	9.6	19.2	86.4	302.5	398.5	475.4	624.2	859.5
65°	0.0	0.0	4.8	14.4	19.2	115.2	153.7	249.7	340.9	533.0
67.5°	0.0	0.0	4.8	9.6	14.4	28.8	52.8	91.2	182.5	302.5
70°	0.0	0.0	4.8	9.6	14.4	24.0	38.4	57.6	81.6	163.3
72.5°	0.0	0.0	4.8	4.8	9.6	24.0	28.8	38.4	57.6	81.6
75°	0.0	0.0	4.8	4.8	14.4	28.8	24.0	28.8	38.4	52.8
77.5°	0.0	0.0	4.8	9.6	14.4	28.8	24.0	28.8	28.8	33.6
80°	0.0	0.0	4.8	9.6	19.2	33.6	28.8	28.8	24.0	24.0
82.5°	0.0	0.0	4.8	14.4	19.2	43.2	43.2	38.4	19.2	14.4
85°	0.0	0.0	9.6	19.2	28.8	48.0	48.0	38.4	14.4	9.6
87.5°	0.0	0.0	9.6	14.4	24.0	33.6	48.0	38.4	14.4	4.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638180
 CATALOG NUMBER: IFLD-L-SA7C-740-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
25948.9	0°	25948.9	25948.9	25948.9	25948.9	25948.9	25948.9	25948.9	25948.9	25948.9
25867.3	2.5°	25996.9	25968.1	26064.2	26102.6	26155.4	25953.7	25828.9	25833.7	25603.2
25574.4	5°	25728.0	25732.8	25857.7	25848.1	25900.9	25790.5	25742.4	25660.8	25459.1
25204.6	7.5°	25387.1	25343.9	25463.9	25555.2	25420.7	25497.6	25387.1	25425.5	25305.5
24878.1	10°	25123.0	25022.2	25132.6	25195.0	25199.8	25123.0	25017.4	24916.5	24873.3
24369.1	12.5°	24537.2	24407.5	24594.8	24681.3	24666.8	24518.0	24397.9	24422.0	24282.7
23476.0	15°	23730.5	23735.3	23869.7	23951.4	23874.5	23840.9	23850.5	23792.9	23672.9
22241.9	17.5°	22496.4	22568.5	22923.8	23120.7	23163.9	23096.7	23063.0	22995.8	22875.8
20273.2	20°	20441.3	20873.4	21507.3	22117.1	22237.1	22217.9	22097.9	22069.1	22001.8
18323.7	22.5°	18635.8	18957.5	19692.2	20642.9	21132.7	21180.7	21036.7	20993.5	20921.4
16580.6	25°	16767.9	17113.6	17776.3	18808.7	19821.8	20028.3	20004.3	19874.7	19797.8
15034.4	27.5°	15192.9	15538.6	16138.8	17070.4	18155.6	18818.3	18880.7	18674.2	18669.4
13656.3	30°	13771.6	14246.9	14703.1	15461.8	16513.4	17507.4	17613.0	17468.9	17483.4
12393.4	32.5°	12657.5	13051.3	13440.2	13949.2	14823.2	15980.4	16393.3	16258.9	16206.1
11341.9	35°	11519.5	11788.4	12187.0	12652.7	13248.2	14395.8	15111.3	15010.4	14957.6
9920.5	37.5°	10223.0	10684.0	10972.1	11495.5	11961.3	12873.6	13882.0	13867.6	13757.2
8710.5	40°	8892.9	9377.9	9814.9	10343.1	10703.2	11428.3	12547.1	12542.3	12556.7
7457.2	42.5°	7687.7	8134.2	8662.4	9238.7	9584.4	10112.6	11313.0	11380.3	11461.9
6424.8	45°	6597.7	7001.0	7490.8	8191.9	8609.6	8912.1	9978.1	10285.5	10280.7
5502.9	47.5°	5618.1	5997.4	6410.4	7092.3	7625.3	7899.0	8782.5	9219.5	9190.6
4513.7	50°	4715.4	5051.5	5483.7	5978.2	6693.7	6933.8	7591.6	8167.9	8124.6
3596.5	52.5°	3793.4	4259.2	4624.1	5075.5	5829.4	6064.7	6573.7	7135.5	7101.9
2698.6	55°	2957.9	3409.3	3851.0	4240.0	4873.8	5224.4	5589.3	6165.5	6155.9
2112.8	57.5°	2237.6	2732.2	3150.0	3519.7	4023.9	4456.1	4749.0	5272.4	5339.6
1445.3	60°	1656.6	2036.0	2487.3	2900.3	3298.8	3745.4	3942.3	4456.1	4484.9
989.2	62.5°	1128.4	1546.2	1987.9	2362.5	2660.2	3121.2	3298.8	3721.4	3774.2
633.8	65°	782.7	1051.6	1555.8	1824.7	2189.6	2583.4	2761.0	3097.2	3202.8
364.9	67.5°	518.6	749.1	1214.9	1459.7	1819.9	2088.8	2314.5	2588.2	2703.4
230.5	70°	283.3	552.2	869.1	1152.4	1464.5	1723.8	1944.7	2165.6	2266.4
105.6	72.5°	192.1	369.7	605.0	912.3	1181.2	1435.7	1632.6	1795.9	1800.7
62.4	75°	96.0	249.7	461.0	705.9	921.9	1171.6	1349.3	1445.3	1330.1
38.4	77.5°	57.6	182.5	374.5	566.6	749.1	946.0	1046.8	1099.6	912.3
28.8	80°	33.6	129.6	292.9	451.4	518.6	696.3	792.3	806.7	609.8
19.2	82.5°	24.0	96.0	230.5	331.3	316.9	489.8	595.4	576.2	388.9
14.4	85°	14.4	67.2	144.1	206.5	192.1	321.7	345.7	355.3	225.7
9.6	87.5°	9.6	38.4	76.8	110.4	91.2	139.3	139.3	168.1	110.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
25948.9
25305.5
25411.1
25103.8
24681.3
24162.7
23552.8
22823.0
21848.2
20902.2
19716.2
18659.8
17411.3
16210.9
14885.6
13848.4
12556.7
11418.7
10290.3
9200.2
8163.1
7173.9
6179.9
5310.8
4528.1
3783.8
3178.8
2689.0
2228.0
1757.5
1243.7
878.7
571.4
360.1
206.5
96.0
0.0

(END OF REPORT)