

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: P637050

Luminaire Tested: **IFLD-L-SA7D-727-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637050
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-727-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40568.8 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

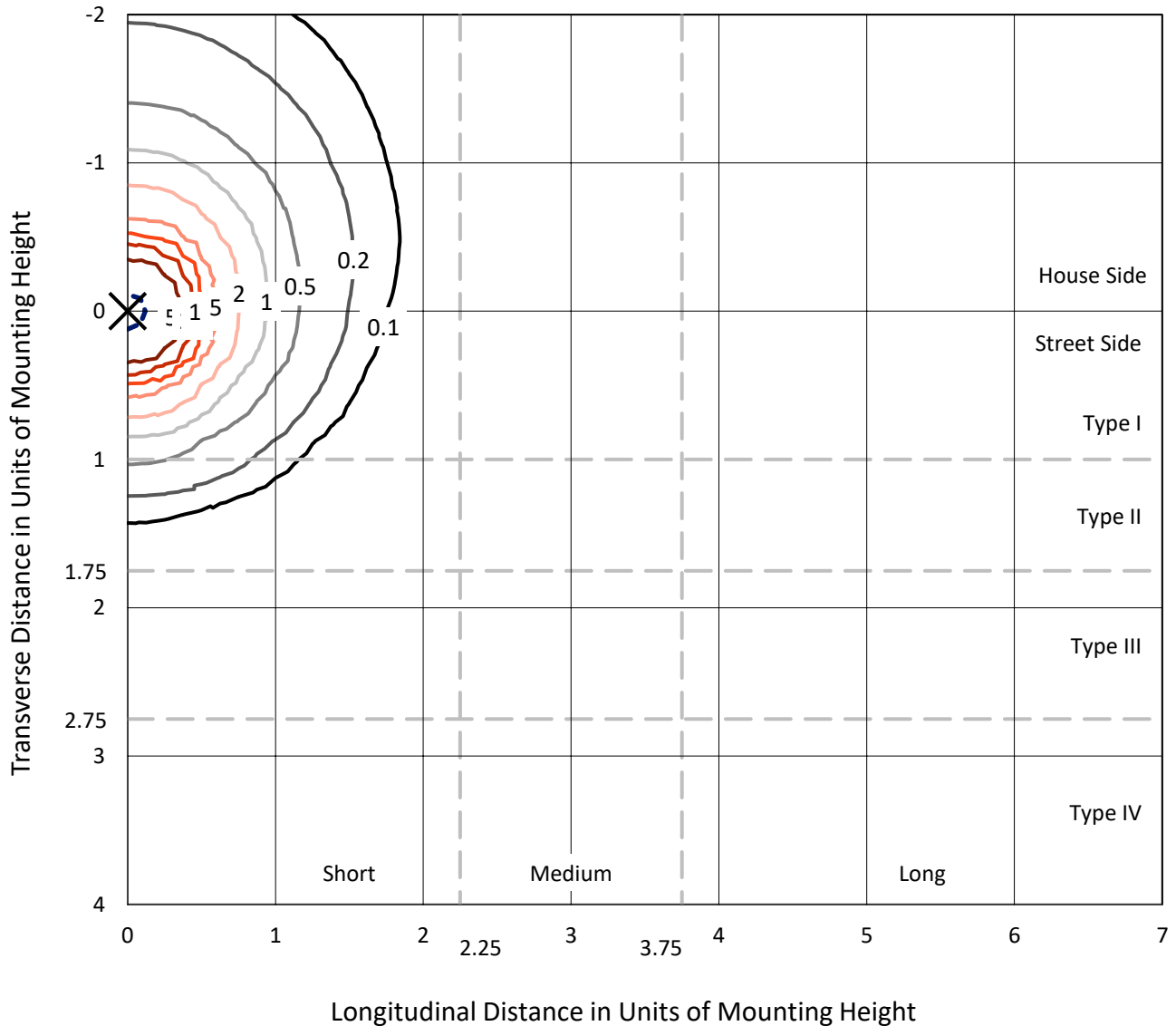
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637050
 CATALOG NUMBER: IFLD-L-SA7D-727-U-33-VI

Iso-Footcandle Lines of Horizontal Illumination

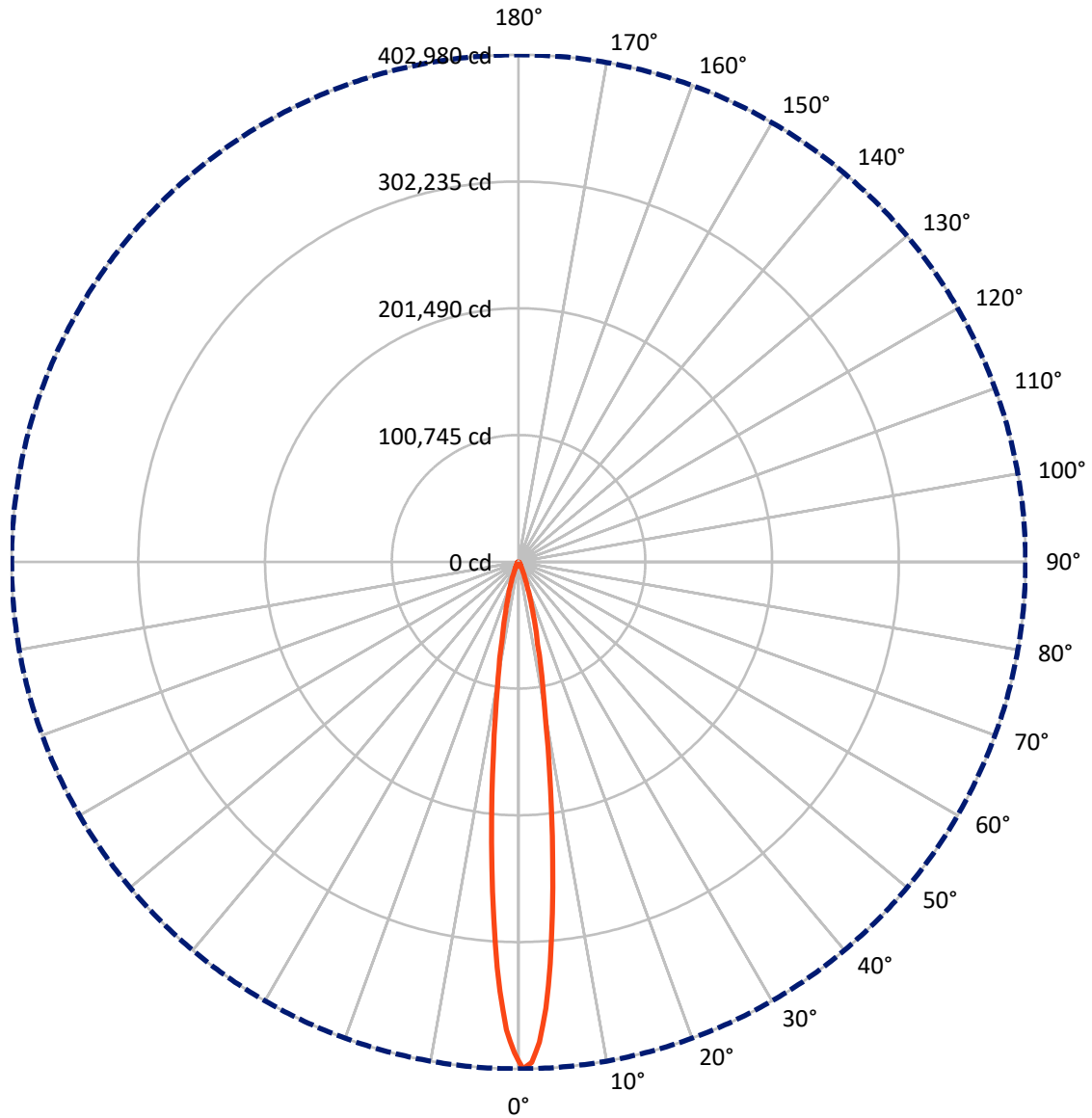
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1007.4 fc
 Type V - Short - N/A

REPORT NUMBER: P637050
CATALOG NUMBER: IFLD-L-SA7D-727-U-33-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

REPORT NUMBER: P637050
 CATALOG NUMBER: IFLD-L-SA7D-727-U-33-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20778.6	0.0	20778.6
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	19790.2	0.0	19790.2
	% Fixture	48.8	0.0	48.8
Total	Lumens	40568.8	0.0	40568.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20480.4	50.5
10°-20°	13111.4	32.3
20°-30°	3941.0	9.7
30°-40°	1283.2	3.2
40°-50°	746.6	1.8
50°-60°	495.9	1.2
60°-70°	298.5	0.7
70°-80°	153.4	0.4
80°-90°	58.3	0.1
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°	40568.8	100.0
0°-180°	40568.8	100.0

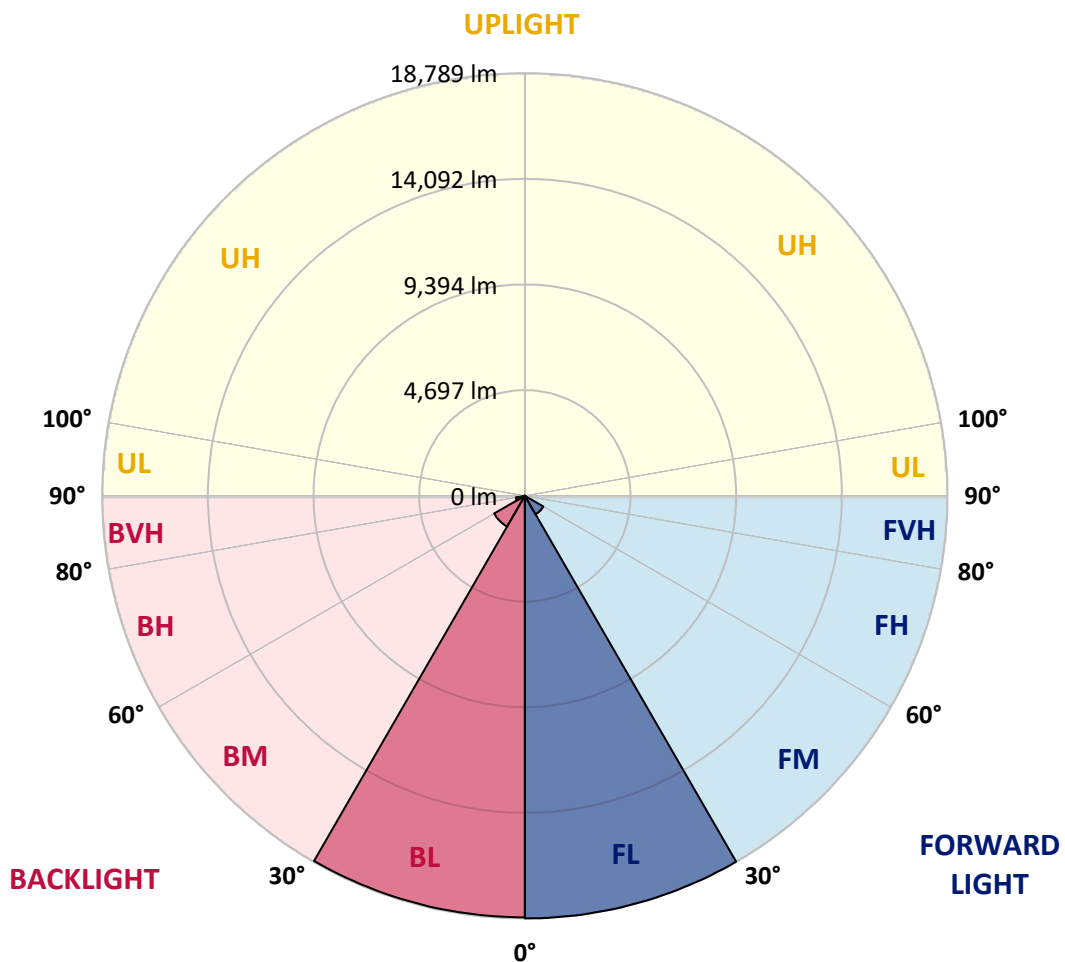


REPORT NUMBER: P637050
 CATALOG NUMBER: IFLD-L-SA7D-727-U-33-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	18788.7	46.3			
FM (30°-60°)	948.1	2.3			
FH (60°-80°)	44.6	0.1			G0/660
FVH (80°-90°)	8.8	0.0			G0/10
BL (0°-30°)	18744.2	46.2	B5		
BM (30°-60°)	1577.6	3.9	B2/2500		
BH (60°-80°)	407.3	1.0	B1/500		G0/660
BVH (80°-90°)	49.5	0.1			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 V Short





REPORT NUMBER: P637050
 CATALOG NUMBER: IFLD-L-SA7D-727-U-33-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	402980.0	402980.0	402980.0	402980.0	402980.0	402980.0	402980.0	402980.0	402980.0	402980.0
1°	398154.9	396939.8	393802.6	396034.0	397995.8	397425.8	397386.0	397174.0	396877.9	399202.1
2°	382239.1	381452.6	376813.1	378726.3	381514.5	379481.9	380754.5	379636.6	379658.7	382433.5
3°	355409.4	355838.0	348436.9	351914.3	355789.4	350862.7	352391.5	355263.6	352254.5	351348.7
4°	320537.9	316817.4	312774.4	316309.3	317312.3	314444.7	317263.7	320780.9	316600.9	316786.5
5°	280726.4	277978.0	273192.7	275375.5	272887.8	273793.6	278017.8	279467.1	276550.8	272879.0
6°	239792.6	237839.5	231856.8	235002.8	234119.1	233606.5	238939.8	234521.2	236111.9	233889.3
7°	199459.6	195809.9	192871.5	195885.0	196079.4	194537.3	201461.3	200657.1	197762.9	197091.3
8°	165255.3	161614.4	159126.7	161371.4	162838.4	160417.0	163673.5	165812.1	163549.8	163753.0
9°	133286.8	132646.1	129186.4	132120.3	133715.4	131121.7	134727.3	135500.5	133384.0	134413.6
10°	109439.7	108692.9	105931.3	107119.9	109762.2	106669.2	110129.0	110380.8	108692.9	109174.6
12.5°	67631.0	67330.5	67255.4	67427.7	67392.4	67940.3	68824.0	67816.5	67684.0	66018.2
15°	43713.1	44159.4	43699.9	44583.6	44711.7	45228.7	44689.6	43876.6	42325.7	41556.9
17.5°	27280.4	27850.4	28636.9	29931.5	31226.2	31376.4	30660.6	29706.2	28955.0	28133.2
20°	15694.8	15973.2	15853.9	17404.8	20754.1	21664.4	20740.9	19737.8	18832.0	18001.3
22.5°	9751.8	9650.2	9835.8	10357.2	11448.6	14263.2	13507.6	12504.6	11846.2	11161.4
25°	5978.4	6088.8	6018.1	6305.3	6795.8	7988.8	8161.1	7728.1	7392.3	7038.8
27.5°	3848.6	3848.6	3879.5	4038.6	4374.4	4334.6	5253.7	4917.9	4736.7	4564.4
30°	2673.2	2682.1	2682.1	2774.9	2850.0	2717.4	2956.0	3389.1	3305.1	3172.5
32.5°	1983.9	2010.5	2032.6	2081.2	2019.3	1877.9	1935.3	2439.1	2390.5	2341.9
35°	1511.2	1533.3	1586.3	1612.8	1524.4	1436.0	1383.0	1793.9	1816.0	1802.8
37.5°	1100.2	1113.5	1210.7	1312.3	1210.7	1131.2	1100.2	1378.6	1484.6	1471.4
40°	844.0	848.4	866.0	980.9	980.9	919.1	927.9	1029.5	1215.1	1215.1
42.5°	724.6	724.6	742.3	724.6	729.1	795.3	817.4	830.7	1029.5	1029.5
45°	627.4	627.4	636.3	592.1	547.9	684.9	702.6	707.0	866.0	888.1
47.5°	525.8	525.8	543.5	486.0	464.0	543.5	592.1	605.3	746.7	764.4
50°	388.8	393.3	446.3	397.7	410.9	419.8	512.6	521.4	631.9	671.6
52.5°	260.7	260.7	269.5	309.3	357.9	344.7	415.3	446.3	503.7	556.7
55°	212.1	212.1	207.7	198.8	265.1	287.2	304.9	371.2	410.9	477.2
57.5°	145.8	154.7	141.4	163.5	172.3	216.5	229.8	291.6	313.7	402.1
60°	17.7	22.1	30.9	119.3	114.9	145.8	172.3	229.8	256.3	309.3
62.5°	4.4	4.4	8.8	22.1	79.5	97.2	137.0	159.1	185.6	238.6
65°	0.0	0.0	4.4	8.8	17.7	53.0	70.7	92.8	132.6	167.9
67.5°	0.0	0.0	4.4	8.8	8.8	22.1	35.3	57.4	70.7	123.7
70°	0.0	0.0	4.4	8.8	8.8	17.7	22.1	26.5	48.6	66.3
72.5°	0.0	0.0	4.4	8.8	13.3	17.7	22.1	22.1	22.1	44.2
75°	0.0	0.0	4.4	8.8	13.3	17.7	22.1	22.1	17.7	17.7
77.5°	0.0	0.0	4.4	8.8	17.7	22.1	26.5	22.1	13.3	13.3
80°	0.0	0.0	4.4	13.3	22.1	30.9	35.3	26.5	13.3	8.8
82.5°	0.0	0.0	8.8	17.7	26.5	35.3	48.6	39.8	17.7	8.8
85°	0.0	0.0	4.4	13.3	26.5	35.3	70.7	48.6	22.1	4.4
87.5°	0.0	0.0	0.0	4.4	4.4	8.8	26.5	17.7	8.8	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637050
 CATALOG NUMBER: IFLD-L-SA7D-727-U-33-VI

CANDELA DISTRIBUTION (continued):

90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
402980.0	0°	402980.0	402980.0	402980.0	402980.0	402980.0	402980.0	402980.0	402980.0
396520.0	1°	399290.5	399568.8	398658.6	400068.1	399573.2	396674.6	395715.8	394580.2
380803.1	2°	379636.6	381054.9	381125.6	382689.8	382667.7	379287.5	378240.3	380171.2
353186.9	3°	352117.6	353770.1	352281.1	355060.4	354225.2	350124.8	349059.9	351251.5
318253.5	4°	317303.5	316989.8	316477.2	314895.4	316844.0	314047.0	311939.3	314913.0
277748.3	5°	277191.5	276493.4	275494.8	275026.4	276475.7	274686.2	270351.5	274695.0
237910.2	6°	238201.9	235197.2	235051.4	234790.7	234936.5	229925.8	230226.3	233460.7
194780.4	7°	196839.4	197391.7	196265.0	198072.2	196693.6	193300.1	191992.2	195399.0
164645.6	8°	163496.7	162798.6	161937.0	164636.7	162246.3	160019.3	158494.9	161185.8
134581.5	9°	134329.6	133123.3	132248.4	132111.5	132482.6	128302.6	129151.0	131188.0
109439.7	10°	109479.4	107499.9	107981.5	108109.7	107703.2	104963.6	104990.2	105692.7
67122.8	12.5°	66884.2	65912.1	66155.2	66287.7	67114.0	66150.7	64789.8	63808.9
42321.3	15°	42038.5	41340.3	42767.5	43726.4	43532.0	42674.8	42034.1	41145.9
28133.2	17.5°	27872.5	28787.1	28791.5	29666.4	29754.8	28897.6	28402.7	27602.9
18297.4	20°	18231.1	18611.1	19402.0	20020.6	20378.5	19724.6	19132.5	18584.6
11408.8	22.5°	11408.8	12071.6	12566.5	13370.7	13697.6	13220.4	12800.7	12354.4
7122.8	25°	7003.5	7476.3	7887.2	8585.3	9031.6	8801.8	8417.4	8103.7
4599.8	27.5°	4670.5	4869.3	5072.5	5554.2	6018.1	5890.0	5735.3	5545.3
3243.2	30°	3291.9	3309.5	3526.0	3795.6	4104.9	4184.4	4113.7	4016.5
2381.6	32.5°	2425.8	2496.5	2598.1	2766.0	2973.7	3163.7	3128.4	3084.2
1820.5	35°	1873.5	1979.5	2063.5	2191.6	2302.1	2483.2	2514.2	2500.9
1497.9	37.5°	1528.8	1621.6	1705.6	1780.7	1873.5	1997.2	2094.4	2098.8
1237.2	40°	1268.1	1352.1	1462.6	1520.0	1586.3	1679.1	1798.4	1807.2
1047.2	42.5°	1069.3	1148.8	1259.3	1330.0	1378.6	1467.0	1586.3	1603.9
897.0	45°	919.1	967.7	1082.6	1166.5	1215.1	1272.6	1400.7	1418.4
773.3	47.5°	799.8	848.4	919.1	1038.4	1082.6	1135.6	1237.2	1268.1
684.9	50°	702.6	751.2	813.0	919.1	985.3	1029.5	1113.5	1157.7
596.5	52.5°	623.0	671.6	737.9	821.9	897.0	936.7	1016.3	1073.7
486.0	55°	521.4	605.3	654.0	729.1	830.7	866.0	927.9	1003.0
424.2	57.5°	455.1	525.8	596.5	658.4	760.0	804.2	866.0	936.7
335.8	60°	384.4	450.7	534.6	587.7	684.9	742.3	808.6	874.9
256.3	62.5°	304.9	393.3	450.7	525.8	618.6	693.7	746.7	813.0
198.8	65°	225.3	322.6	388.8	468.4	556.7	636.3	680.5	751.2
141.4	67.5°	163.5	251.9	331.4	406.5	490.5	570.0	614.2	676.0
88.4	70°	128.1	185.6	274.0	340.2	428.6	494.9	543.5	583.3
57.4	72.5°	75.1	141.4	220.9	296.0	375.6	419.8	455.1	490.5
26.5	75°	48.6	110.5	181.2	247.4	304.9	344.7	375.6	406.5
13.3	77.5°	30.9	79.5	145.8	207.7	234.2	282.8	309.3	327.0
8.8	80°	17.7	61.9	128.1	167.9	190.0	220.9	247.4	269.5
8.8	82.5°	13.3	53.0	106.0	141.4	141.4	176.7	190.0	190.0
4.4	85°	8.8	44.2	84.0	132.6	106.0	132.6	123.7	123.7
4.4	87.5°	8.8	30.9	39.8	57.4	48.6	57.4	57.4	66.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
402980.0
390082.1
371992.4
341517.4
304149.3
263250.9
224084.5
186133.2
153501.9
124825.2
100911.8
63212.4
40690.8
27404.1
18394.6
12115.8
7922.5
5434.9
3950.2
3048.8
2456.7
2067.9
1793.9
1590.7
1413.9
1272.6
1162.1
1073.7
1007.4
941.2
892.6
844.0
764.4
680.5
596.5
499.3
406.5
318.1
243.0
176.7
119.3
66.3
0.0

(END OF REPORT)