

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: P637747

Luminaire Tested: **IFLD-L-SA7E-827-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637747
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-827-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38980.3 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 532.7
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



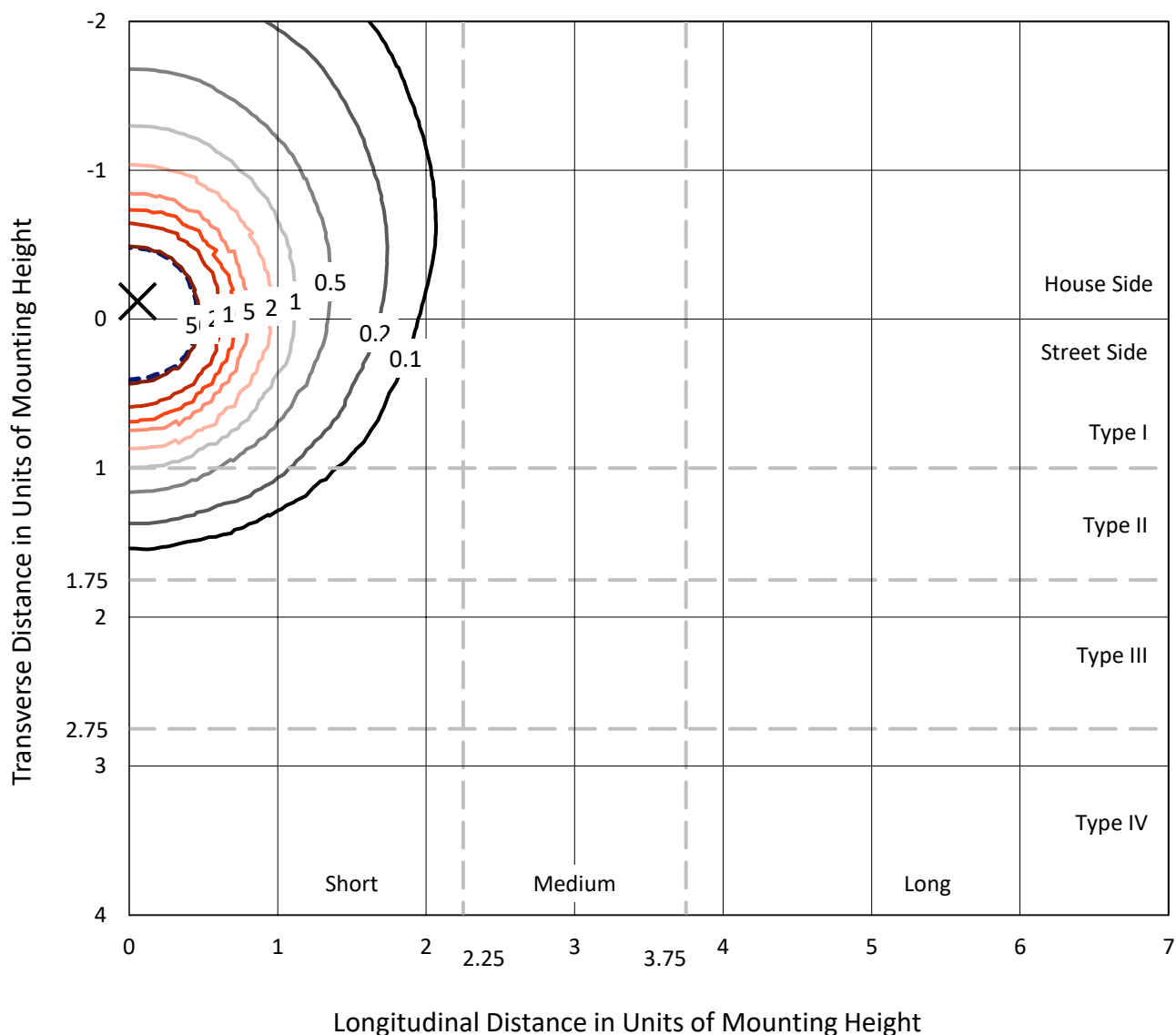
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

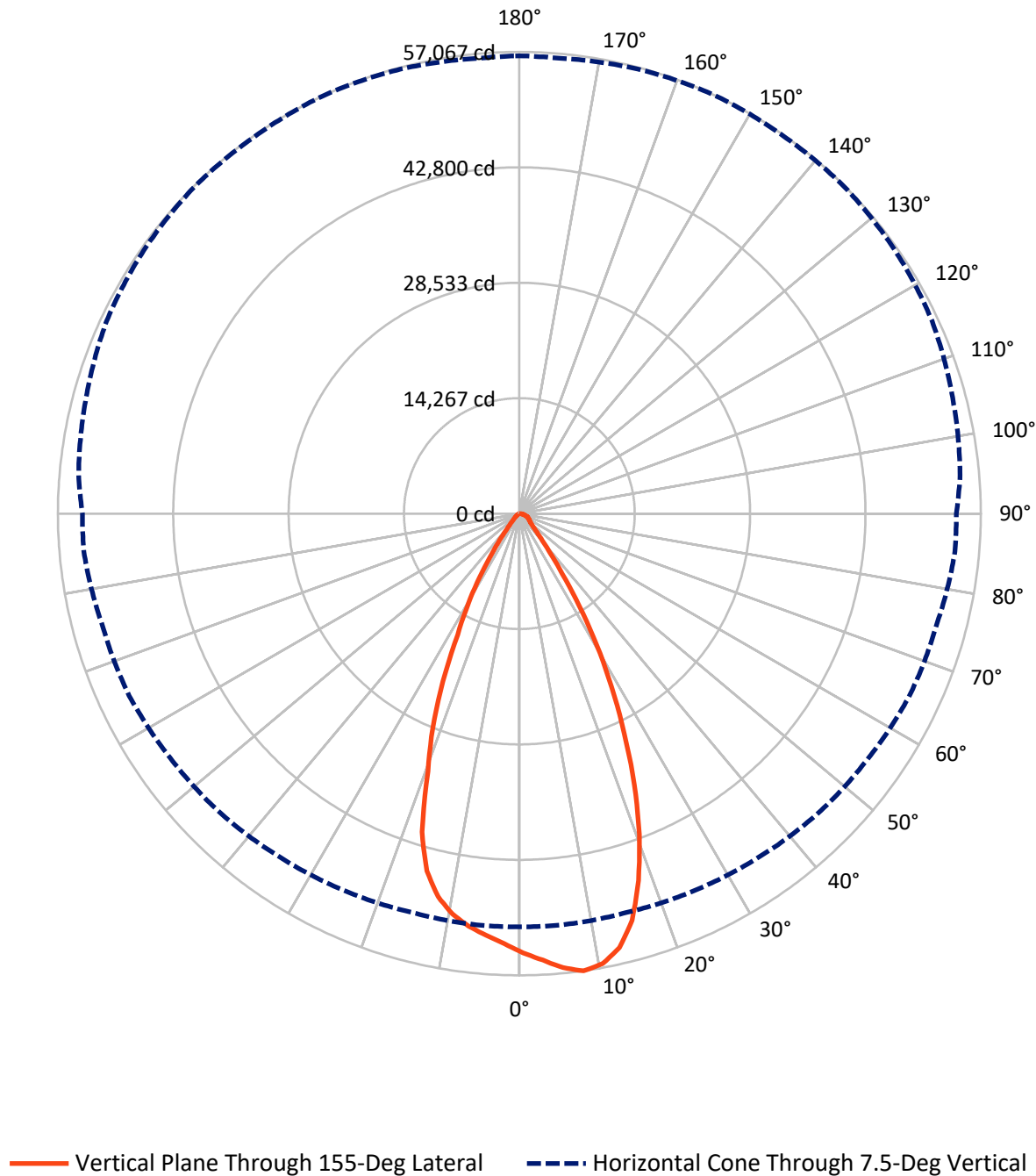


Based on 20 foot mounting height. Maximum calculated value = 138 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21518.5	0.0	21518.5
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	17461.8	0.0	17461.8
	% Fixture	44.8	0.0	44.8
Total	Lumens	38980.3	0.0	38980.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5178.1	13.3
10°-20°	13426.8	34.4
20°-30°	12302.7	31.6
30°-40°	4970.3	12.8
40°-50°	1458.1	3.7
50°-60°	815.2	2.1
60°-70°	495.2	1.3
70°-80°	251.6	0.6
80°-90°	82.3	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°	38980.3	100.0
0°-180°	38980.3	100.0

Coefficient of Utilization



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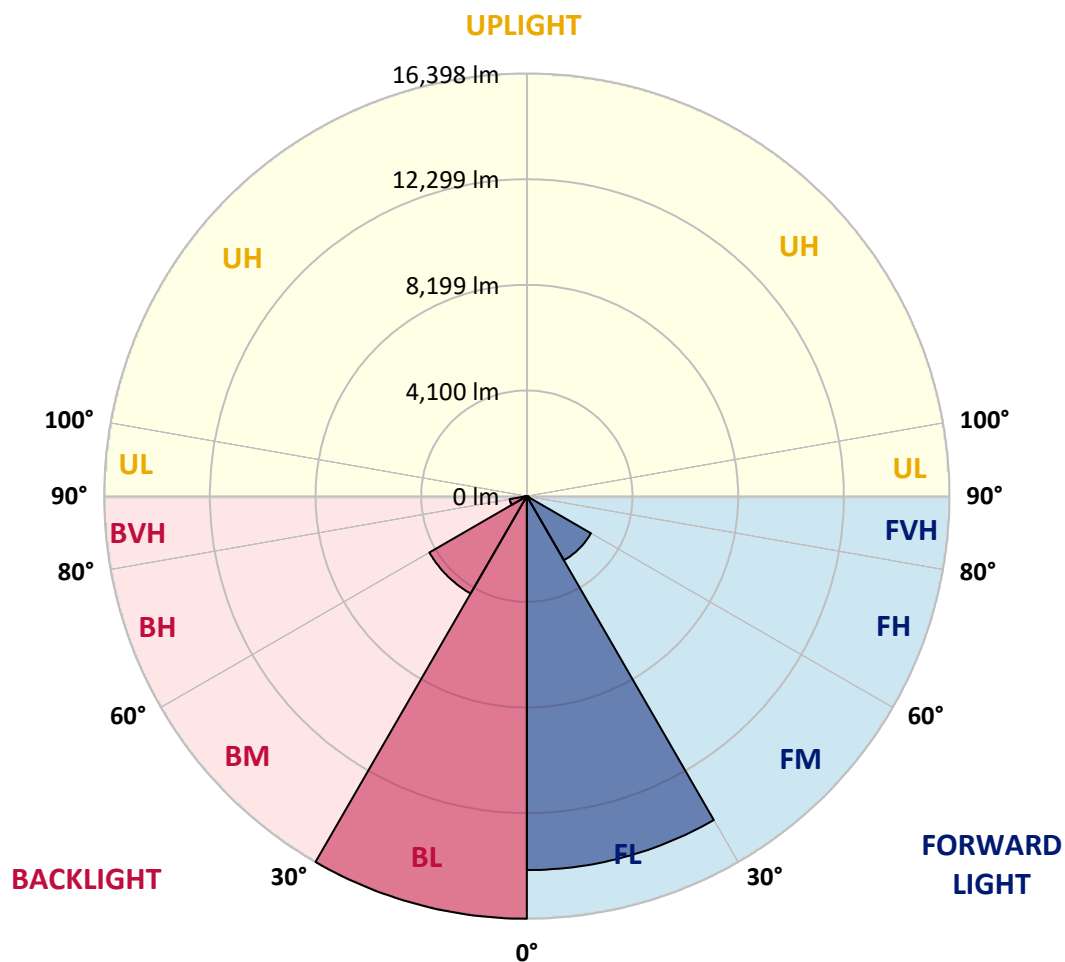
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	14509.4	37.2			
FM	(30°-60°)	2875.5	7.4			
FH	(60°-80°)	69.7	0.2			G0/660
FVH	(80°-90°)	7.1	0.0			G0/10
BL	(0°-30°)	16398.2	42.1	B5		
BM	(30°-60°)	4368.1	11.2	B3/5000		
BH	(60°-80°)	677.1	1.7	B2/1000		G2/1000
BVH	(80°-90°)	75.2	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-G2

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	54302.5	54302.5	54302.5	54302.5	54302.5	54302.5	54302.5	54302.5	54302.5	54302.5
2.5°	53124.9	53304.7	52945.1	53183.3	53367.6	53808.1	53844.1	53996.9	54050.8	54450.9
5°	52118.0	52257.4	51965.2	52284.4	52545.1	52936.1	53237.3	53659.8	53893.5	54365.5
7.5°	51070.7	51102.2	51043.8	51380.9	51771.9	52311.3	52684.4	53237.3	53381.1	54055.3
10°	49803.2	49573.9	49686.3	50180.8	50765.1	51592.1	51848.3	52401.2	52657.4	53345.1
12.5°	47780.5	47897.4	47758.0	48387.3	48872.7	49812.2	50081.9	50639.2	51129.2	51736.0
15°	44930.7	44863.3	45146.5	45636.4	46162.3	46908.5	47344.5	47951.3	48324.4	48953.7
17.5°	38525.5	38754.8	39923.5	41150.6	42229.3	43101.3	43622.7	44126.2	44395.9	45079.1
20°	33271.0	32983.4	33140.7	33832.9	36902.9	38237.9	38786.3	38907.6	39020.0	39559.4
22.5°	27396.2	27301.9	27827.8	28605.4	29333.5	32412.5	33158.7	32875.5	33109.2	33617.1
25°	20343.8	20820.2	21287.7	22780.0	23723.9	25234.2	26650.1	26776.0	26861.4	27180.5
27.5°	16559.1	16392.8	16383.8	16801.8	18195.2	19453.8	20658.4	20937.1	20887.7	21193.3
30°	13017.1	12963.2	12774.4	12873.3	12734.0	13853.2	14419.5	15565.7	15502.8	15511.8
32.5°	9389.8	9187.5	9111.1	9259.4	9115.6	9012.2	9506.7	10801.2	10778.7	10868.6
35°	5681.5	5654.5	5717.5	5847.8	5560.2	5551.2	5654.5	6872.7	7021.0	7164.8
37.5°	3137.4	3110.5	3159.9	3640.8	3546.5	3461.1	3488.0	4130.8	4557.8	4665.7
40°	2067.6	2063.1	2099.1	2184.5	2346.3	2314.9	2328.3	2616.0	3020.6	3114.9
42.5°	1384.4	1388.9	1411.4	1510.3	1532.8	1694.6	1667.6	1735.0	2112.6	2193.5
45°	1105.7	1101.2	1114.7	1069.8	1096.7	1263.1	1281.0	1285.5	1609.2	1658.6
47.5°	872.0	872.0	885.5	827.1	813.6	917.0	1011.3	1024.8	1285.5	1353.0
50°	611.3	611.3	678.7	651.8	683.2	714.7	818.1	831.6	1051.8	1123.7
52.5°	449.5	458.5	467.5	472.0	575.3	570.8	660.7	723.7	795.6	921.4
55°	341.6	350.6	328.1	350.6	427.0	476.5	494.4	584.3	633.8	773.1
57.5°	224.7	247.2	229.2	269.7	287.7	368.6	395.5	481.0	512.4	633.8
60°	31.5	36.0	58.4	188.8	202.3	242.7	305.7	382.1	413.5	516.9
62.5°	4.5	4.5	13.5	31.5	134.8	161.8	229.2	265.2	305.7	386.6
65°	0.0	0.0	4.5	9.0	27.0	94.4	116.9	143.8	211.3	278.7
67.5°	0.0	0.0	4.5	9.0	13.5	31.5	49.4	94.4	121.4	193.3
70°	0.0	0.0	4.5	9.0	13.5	18.0	27.0	36.0	71.9	112.4
72.5°	0.0	0.0	4.5	9.0	13.5	18.0	22.5	27.0	31.5	71.9
75°	0.0	0.0	4.5	9.0	13.5	22.5	27.0	27.0	27.0	31.5
77.5°	0.0	0.0	4.5	9.0	18.0	27.0	31.5	27.0	22.5	22.5
80°	0.0	0.0	4.5	13.5	22.5	31.5	36.0	27.0	18.0	13.5
82.5°	0.0	0.0	4.5	13.5	22.5	31.5	36.0	31.5	18.0	13.5
85°	0.0	0.0	4.5	13.5	18.0	22.5	36.0	31.5	18.0	9.0
87.5°	0.0	0.0	0.0	4.5	4.5	9.0	18.0	13.5	9.0	4.5
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°
54302.5	0°	54302.5	54302.5	54302.5	54302.5	54302.5	54302.5	54302.5	54302.5	54302.5
54441.9	2.5°	54846.4	55048.7	55403.8	55502.7	55808.3	55457.7	55264.5	55282.4	54864.4
54307.0	5°	54846.4	55309.4	55929.7	56226.4	56451.1	56433.1	56383.7	56257.8	55952.2
54037.4	7.5°	54702.6	55457.7	56311.8	56707.3	56977.0	56954.5	57066.9	56864.6	56491.6
53556.4	10°	54239.6	54895.9	55947.7	56271.3	56707.3	56716.3	56577.0	56617.4	55952.2
51798.9	12.5°	52783.3	53295.7	54217.1	54585.7	55116.1	55201.5	55048.7	54990.3	54361.0
48917.7	15°	49965.0	50261.7	51187.6	51556.2	52082.1	52010.2	52163.0	52100.1	51547.2
45025.1	17.5°	45843.2	45937.6	46908.5	47218.6	47713.1	47906.3	47677.1	47969.3	47492.8
39653.8	20°	39932.4	40440.4	41532.6	42009.1	42296.7	42642.9	42341.7	42669.8	42112.5
33136.2	22.5°	33936.3	34237.4	35226.3	35914.0	36448.9	36516.3	36404.0	36633.2	35882.6
27391.8	25°	27387.3	27886.2	28668.3	29567.3	30093.2	30416.8	30124.6	30273.0	30151.6
21242.8	27.5°	21602.4	22047.3	22636.2	23305.9	24097.0	24519.5	24285.8	24537.5	23944.2
15839.9	30°	15853.4	16078.2	16743.4	17453.6	18321.1	18833.5	18856.0	19112.2	18761.6
11097.8	32.5°	11178.7	11376.5	11785.6	12257.5	13084.6	13655.4	13565.5	13601.5	13385.7
7232.2	35°	7268.2	7533.4	7825.6	8050.3	8549.2	9178.5	9129.1	9084.1	8935.8
4755.6	37.5°	4859.0	4962.3	5124.2	5326.4	5650.1	6045.6	6176.0	6014.1	5951.2
3209.3	40°	3285.8	3465.5	3573.4	3726.2	3879.1	4211.7	4301.6	4270.1	4207.2
2247.4	42.5°	2332.8	2472.2	2607.0	2755.4	2836.3	3043.0	3218.3	3168.9	3141.9
1708.1	45°	1771.0	1896.8	2054.2	2166.5	2247.4	2368.8	2535.1	2553.1	2512.6
1370.9	47.5°	1420.4	1532.8	1658.6	1797.9	1892.3	1968.8	2112.6	2166.5	2139.6
1155.2	50°	1204.6	1290.0	1411.4	1550.7	1654.1	1721.5	1847.4	1905.8	1887.8
966.4	52.5°	1024.8	1128.2	1240.6	1357.5	1483.3	1550.7	1667.6	1753.0	1739.5
800.1	55°	849.5	984.4	1101.2	1218.1	1361.9	1429.4	1532.8	1645.1	1622.6
678.7	57.5°	741.7	854.0	975.4	1087.8	1240.6	1330.5	1424.9	1541.7	1537.2
557.4	60°	620.3	732.7	867.5	961.9	1123.7	1249.6	1335.0	1456.3	1465.3
422.5	62.5°	494.4	633.8	737.2	867.5	1015.8	1164.2	1245.1	1366.4	1411.4
323.6	65°	368.6	521.4	638.3	768.6	908.0	1074.3	1146.2	1267.6	1312.5
233.7	67.5°	274.2	391.1	539.4	651.8	809.1	952.9	1038.3	1150.7	1182.2
139.3	70°	206.8	301.2	449.5	548.4	710.2	827.1	912.5	997.9	1038.3
94.4	72.5°	121.4	224.7	355.1	472.0	611.3	710.2	773.1	840.5	867.5
44.9	75°	85.4	170.8	278.7	391.1	494.4	575.3	633.8	692.2	719.2
22.5	77.5°	44.9	125.9	220.2	314.6	386.6	454.0	512.4	557.4	575.3
18.0	80°	27.0	89.9	179.8	247.2	296.7	355.1	413.5	445.0	440.5
13.5	82.5°	18.0	71.9	130.4	179.8	215.8	260.7	301.2	323.6	323.6
9.0	85°	13.5	49.4	89.9	139.3	143.8	179.8	188.8	211.3	215.8
9.0	87.5°	9.0	31.5	49.4	80.9	76.4	94.4	98.9	112.4	121.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
54302.5
54527.3
56051.1
56577.0
55758.9
54217.1
51722.5
47376.0
42067.5
35779.2
30075.2
24097.0
18824.5
13507.1
8805.5
5937.7
4216.2
3119.4
2508.1
2126.1
1883.4
1730.5
1622.6
1532.8
1465.3
1406.9
1308.0
1182.2
1029.3
858.5
710.2
570.8
436.0
319.1
211.3
116.9
0.0

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