

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: P637630

Luminaire Tested: **IFLD-L-SA7D-735-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637630
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-735-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45192.5 lumens
Efficiency: N/A
Efficacy: 106.9 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): 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



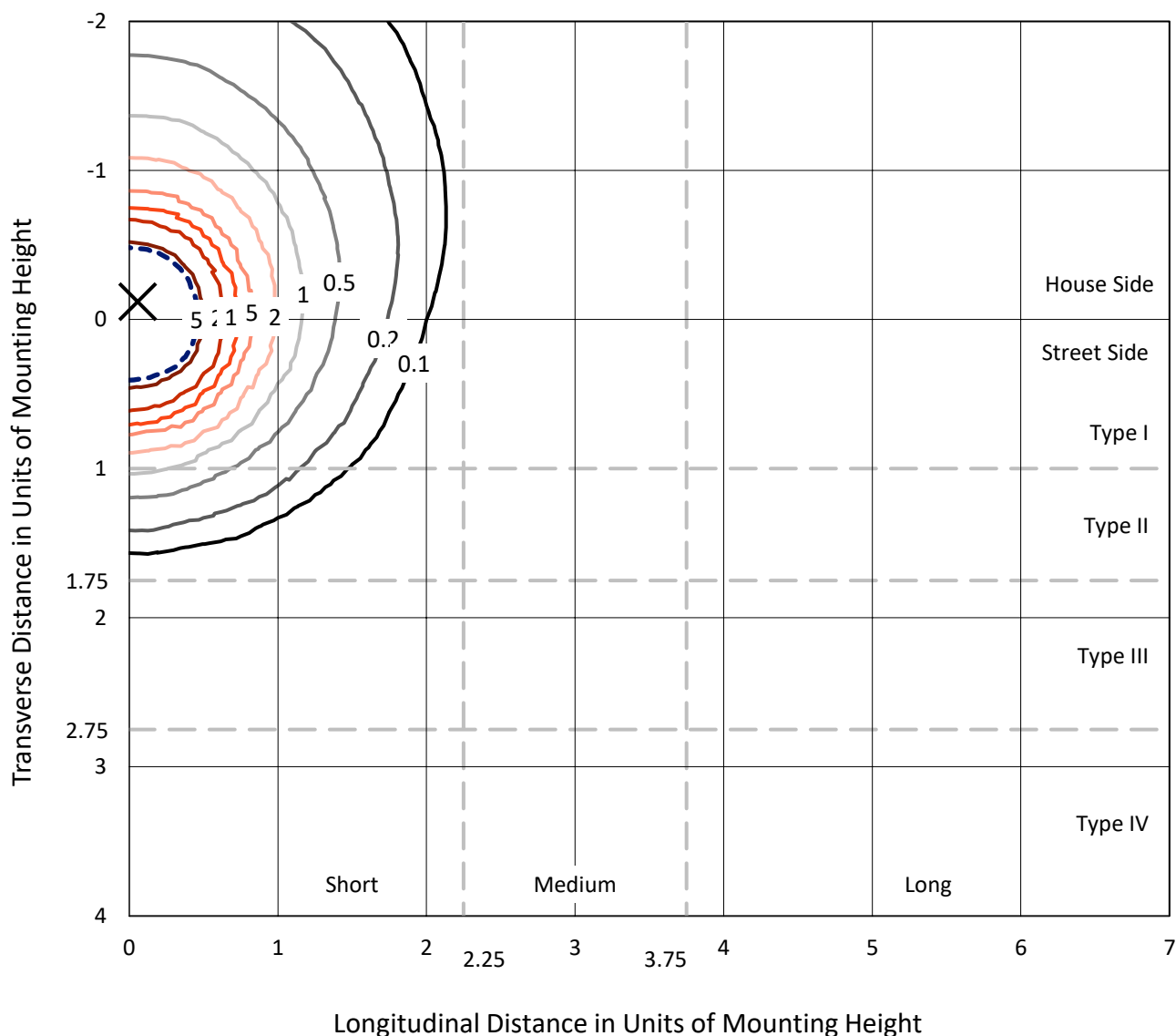
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

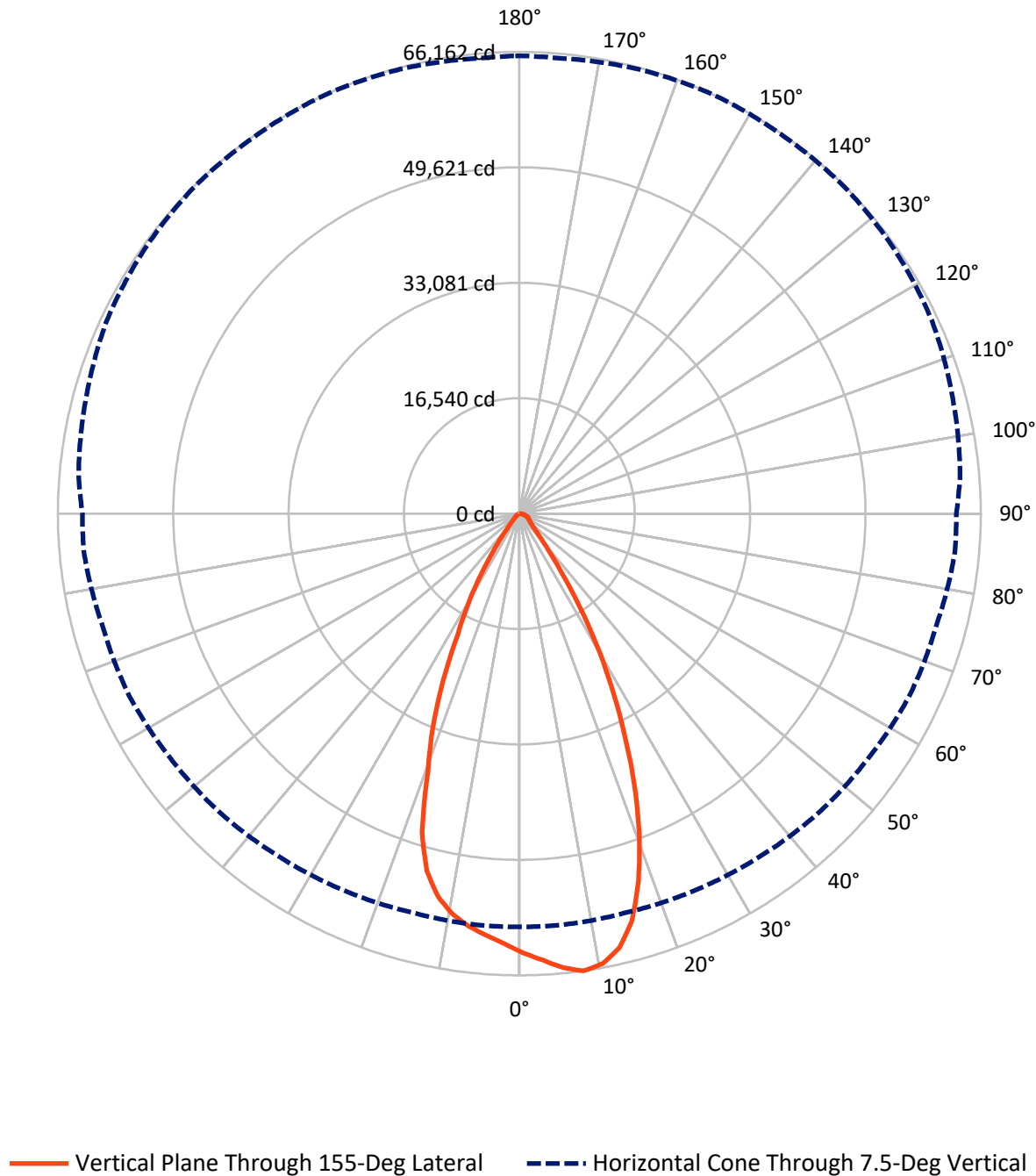


Based on 20 foot mounting height. Maximum calculated value = 160 fc

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	24947.9	0.0	24947.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	20244.6	0.0	20244.6
	% Fixture	44.8	0.0	44.8
Total	Lumens	45192.5	0.0	45192.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6003.3	13.3
10°-20°	15566.6	34.4
20°-30°	14263.4	31.6
30°-40°	5762.4	12.8
40°-50°	1690.4	3.7
50°-60°	945.2	2.1
60°-70°	574.1	1.3
70°-80°	291.7	0.6
80°-90°	95.4	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°	45192.5	100.0
0°-180°	45192.5	100.0

Coefficient of Utilization



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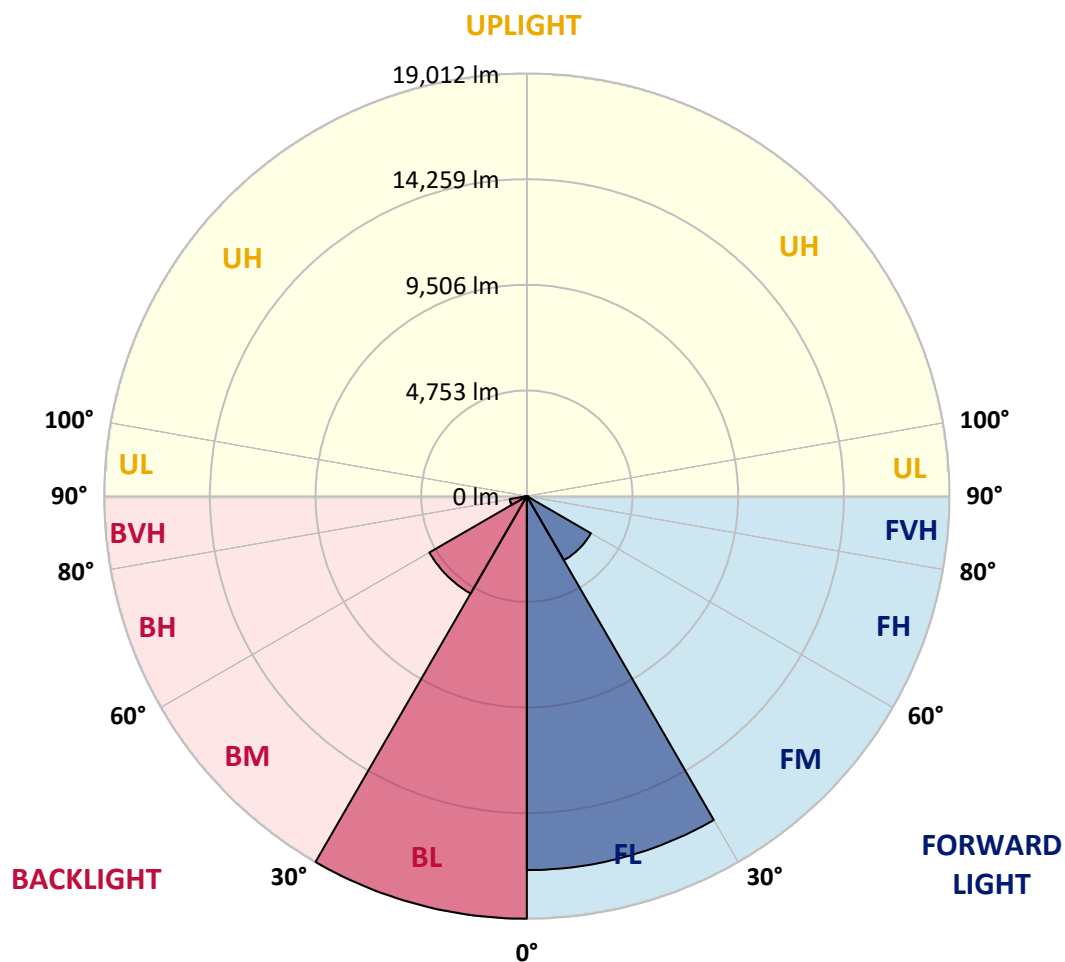
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	16821.8	37.2			
FM	(30°-60°)	3333.8	7.4			
FH	(60°-80°)	80.8	0.2			G0/660
FVH	(80°-90°)	8.3	0.0			G0/10
BL	(0°-30°)	19011.6	42.1	B5		
BM	(30°-60°)	5064.2	11.2	B4/8500		
BH	(60°-80°)	785.0	1.7	B2/1000		G2/1000
BVH	(80°-90°)	87.1	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°	62956.6	62956.6	62956.6	62956.6	62956.6	62956.6	62956.6	62956.6	62956.6	62956.6
2.5°	61591.3	61799.7	61382.8	61659.0	61872.7	62383.4	62425.1	62602.3	62664.8	63128.6
5°	60424.0	60585.5	60246.8	60616.8	60919.0	61372.4	61721.6	62211.4	62482.4	63029.6
7.5°	59209.8	59246.2	59178.5	59569.3	60022.7	60648.0	61080.6	61721.6	61888.3	62670.0
10°	57740.2	57474.4	57604.7	58177.9	58855.4	59814.3	60111.3	60752.3	61049.3	61846.6
12.5°	55395.1	55530.6	55369.1	56098.7	56661.5	57750.6	58063.3	58709.5	59277.5	59981.0
15°	52091.2	52013.1	52341.4	52909.4	53519.1	54384.2	54889.7	55593.2	56025.7	56755.3
17.5°	44665.3	44931.0	46286.0	47708.6	48959.3	49970.3	50574.8	51158.4	51471.1	52263.2
20°	38573.4	38239.8	38422.2	39224.8	42784.0	44331.8	44967.5	45108.2	45238.5	45863.8
22.5°	31762.3	31652.9	32262.6	33164.1	34008.3	37578.0	38443.1	38114.8	38385.8	38974.6
25°	23585.9	24138.3	24680.3	26410.4	27504.8	29255.7	30897.3	31043.2	31142.2	31512.2
27.5°	19198.1	19005.3	18994.9	19479.5	21095.0	22554.1	23950.7	24273.8	24216.5	24570.8
30°	15091.7	15029.1	14810.3	14924.9	14763.4	16060.9	16717.6	18046.4	17973.5	17983.9
32.5°	10886.2	10651.7	10563.1	10735.1	10568.3	10448.5	11021.7	12522.5	12496.5	12600.7
35°	6587.0	6555.7	6628.7	6779.8	6446.3	6435.8	6555.7	7967.9	8139.9	8306.7
37.5°	3637.4	3606.2	3663.5	4221.1	4111.6	4012.6	4043.9	4789.1	5284.2	5409.2
40°	2397.2	2391.9	2433.6	2532.6	2720.3	2683.8	2699.4	3032.9	3501.9	3611.4
42.5°	1605.1	1610.3	1636.3	1751.0	1777.0	1964.6	1933.4	2011.5	2449.3	2543.1
45°	1282.0	1276.7	1292.4	1240.3	1271.5	1464.3	1485.2	1490.4	1865.6	1922.9
47.5°	1011.0	1011.0	1026.6	958.9	943.2	1063.1	1172.5	1188.2	1490.4	1568.6
50°	708.7	708.7	786.9	755.6	792.1	828.6	948.4	964.1	1219.4	1302.8
52.5°	521.1	531.5	542.0	547.2	667.0	661.8	766.0	839.0	922.4	1068.3
55°	396.1	406.5	380.4	406.5	495.1	552.4	573.2	677.5	734.8	896.3
57.5°	260.6	286.6	265.8	312.7	333.5	427.3	458.6	557.6	594.1	734.8
60°	36.5	41.7	67.7	218.9	234.5	281.4	354.4	443.0	479.4	599.3
62.5°	5.2	5.2	15.6	36.5	156.3	187.6	265.8	307.5	354.4	448.2
65°	0.0	0.0	5.2	10.4	31.3	109.4	135.5	166.8	244.9	323.1
67.5°	0.0	0.0	5.2	10.4	15.6	36.5	57.3	109.4	140.7	224.1
70°	0.0	0.0	5.2	10.4	15.6	20.8	31.3	41.7	83.4	130.3
72.5°	0.0	0.0	5.2	10.4	15.6	20.8	26.1	31.3	36.5	83.4
75°	0.0	0.0	5.2	10.4	15.6	26.1	31.3	31.3	31.3	36.5
77.5°	0.0	0.0	5.2	10.4	20.8	31.3	36.5	31.3	26.1	26.1
80°	0.0	0.0	5.2	15.6	26.1	36.5	41.7	31.3	20.8	15.6
82.5°	0.0	0.0	5.2	15.6	26.1	36.5	41.7	36.5	20.8	15.6
85°	0.0	0.0	5.2	15.6	20.8	26.1	41.7	36.5	20.8	10.4
87.5°	0.0	0.0	0.0	5.2	5.2	10.4	20.8	15.6	10.4	5.2
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°
62956.6	0°	62956.6	62956.6	62956.6	62956.6	62956.6	62956.6	62956.6	62956.6	62956.6
63118.2	2.5°	63587.2	63821.7	64233.4	64348.0	64702.4	64295.9	64071.8	64092.7	63608.0
62961.8	5°	63587.2	64123.9	64843.1	65187.0	65447.6	65426.7	65369.4	65223.5	64869.1
62649.2	7.5°	63420.4	64295.9	65286.0	65744.6	66057.3	66031.2	66161.5	65927.0	65494.5
62091.6	10°	62883.7	63644.5	64863.9	65239.1	65744.6	65755.0	65593.5	65640.4	64869.1
60054.0	12.5°	61195.2	61789.3	62857.6	63284.9	63899.8	63998.9	63821.7	63753.9	63024.4
56713.6	15°	57927.8	58271.7	59345.2	59772.6	60382.3	60298.9	60476.1	60403.1	59762.1
52200.7	17.5°	53149.1	53258.6	54384.2	54743.7	55317.0	55541.1	55275.3	55614.0	55061.6
45973.3	20°	46296.4	46885.2	48151.6	48704.0	49037.5	49438.7	49089.6	49470.0	48823.8
38417.0	22.5°	39344.6	39693.8	40840.2	41637.6	42257.7	42335.9	42205.6	42471.4	41601.1
31757.1	25°	31751.9	32330.3	33237.1	34279.3	34889.0	35264.2	34925.5	35097.5	34956.8
24628.2	27.5°	25045.1	25561.0	26243.6	27020.1	27937.3	28427.1	28156.2	28448.0	27760.1
18364.3	30°	18379.9	18640.5	19411.8	20235.1	21240.9	21835.0	21861.0	22158.1	21751.6
12866.5	32.5°	12960.3	13189.6	13663.8	14211.0	15169.8	15831.7	15727.4	15769.1	15519.0
8384.8	35°	8426.5	8734.0	9072.7	9333.3	9911.7	10641.3	10584.0	10531.9	10359.9
5513.5	37.5°	5633.3	5753.2	5940.8	6175.3	6550.5	7009.1	7160.2	6972.6	6899.6
3720.8	40°	3809.4	4017.8	4142.9	4320.1	4497.3	4882.9	4987.1	4950.6	4877.7
2605.6	42.5°	2704.6	2866.2	3022.5	3194.5	3288.3	3528.0	3731.2	3673.9	3642.6
1980.3	45°	2053.2	2199.1	2381.5	2511.8	2605.6	2746.3	2939.1	2960.0	2913.1
1589.4	47.5°	1646.7	1777.0	1922.9	2084.5	2193.9	2282.5	2449.3	2511.8	2480.5
1339.3	50°	1396.6	1495.6	1636.3	1797.9	1917.7	1995.9	2141.8	2209.6	2188.7
1120.4	52.5°	1188.2	1308.0	1438.3	1573.8	1719.7	1797.9	1933.4	2032.4	2016.7
927.6	55°	984.9	1141.3	1276.7	1412.2	1579.0	1657.2	1777.0	1907.3	1881.2
786.9	57.5°	859.8	990.1	1130.8	1261.1	1438.3	1542.5	1652.0	1787.4	1782.2
646.2	60°	719.1	849.4	1005.8	1115.2	1302.8	1448.7	1547.7	1688.4	1698.9
489.9	62.5°	573.2	734.8	854.6	1005.8	1177.7	1349.7	1443.5	1584.2	1636.3
375.2	65°	427.3	604.5	740.0	891.1	1052.7	1245.5	1328.9	1469.6	1521.7
271.0	67.5°	317.9	453.4	625.3	755.6	938.0	1104.8	1203.8	1334.1	1370.5
161.5	70°	239.7	349.2	521.1	635.8	823.4	958.9	1057.9	1156.9	1203.8
109.4	72.5°	140.7	260.6	411.7	547.2	708.7	823.4	896.3	974.5	1005.8
52.1	75°	99.0	198.0	323.1	453.4	573.2	667.0	734.8	802.5	833.8
26.1	77.5°	52.1	145.9	255.3	364.8	448.2	526.3	594.1	646.2	667.0
20.8	80°	31.3	104.2	208.4	286.6	343.9	411.7	479.4	515.9	510.7
15.6	82.5°	20.8	83.4	151.1	208.4	250.1	302.3	349.2	375.2	375.2
10.4	85°	15.6	57.3	104.2	161.5	166.8	208.4	218.9	244.9	250.1
10.4	87.5°	10.4	36.5	57.3	93.8	88.6	109.4	114.6	130.3	140.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
62956.6
63217.2
64983.8
65593.5
64645.0
62857.6
59965.4
54926.1
48771.7
41481.2
34868.2
27937.3
21824.5
15659.7
10208.8
6884.0
4888.1
3616.6
2907.9
2464.9
2183.5
2006.3
1881.2
1777.0
1698.9
1631.1
1516.5
1370.5
1193.4
995.3
823.4
661.8
505.5
370.0
244.9
135.5
0.0

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