

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: P637742

Luminaire Tested: **IFLD-M-SA4E-827-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637742
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-827-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24999.6 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 314.8
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



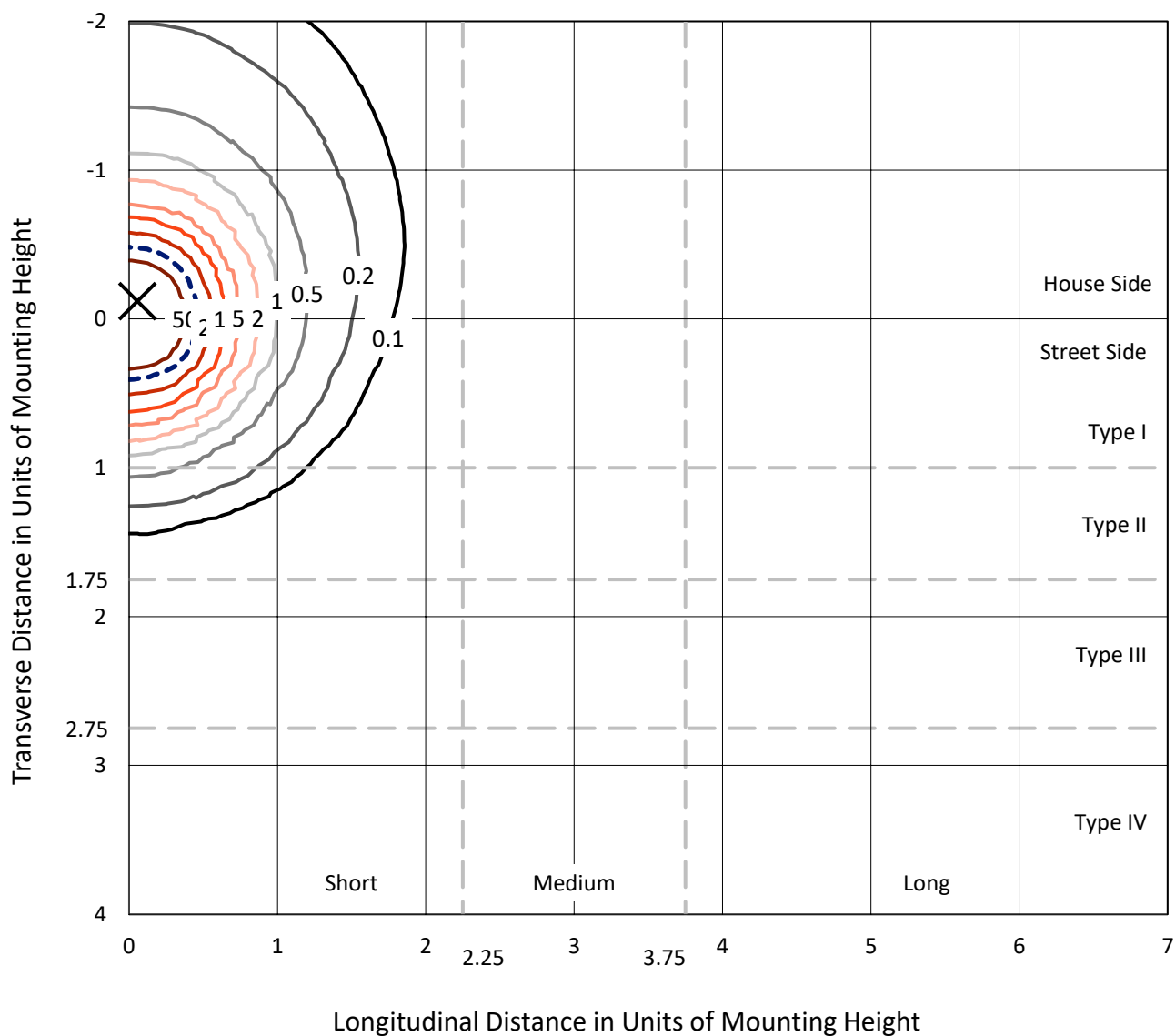
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

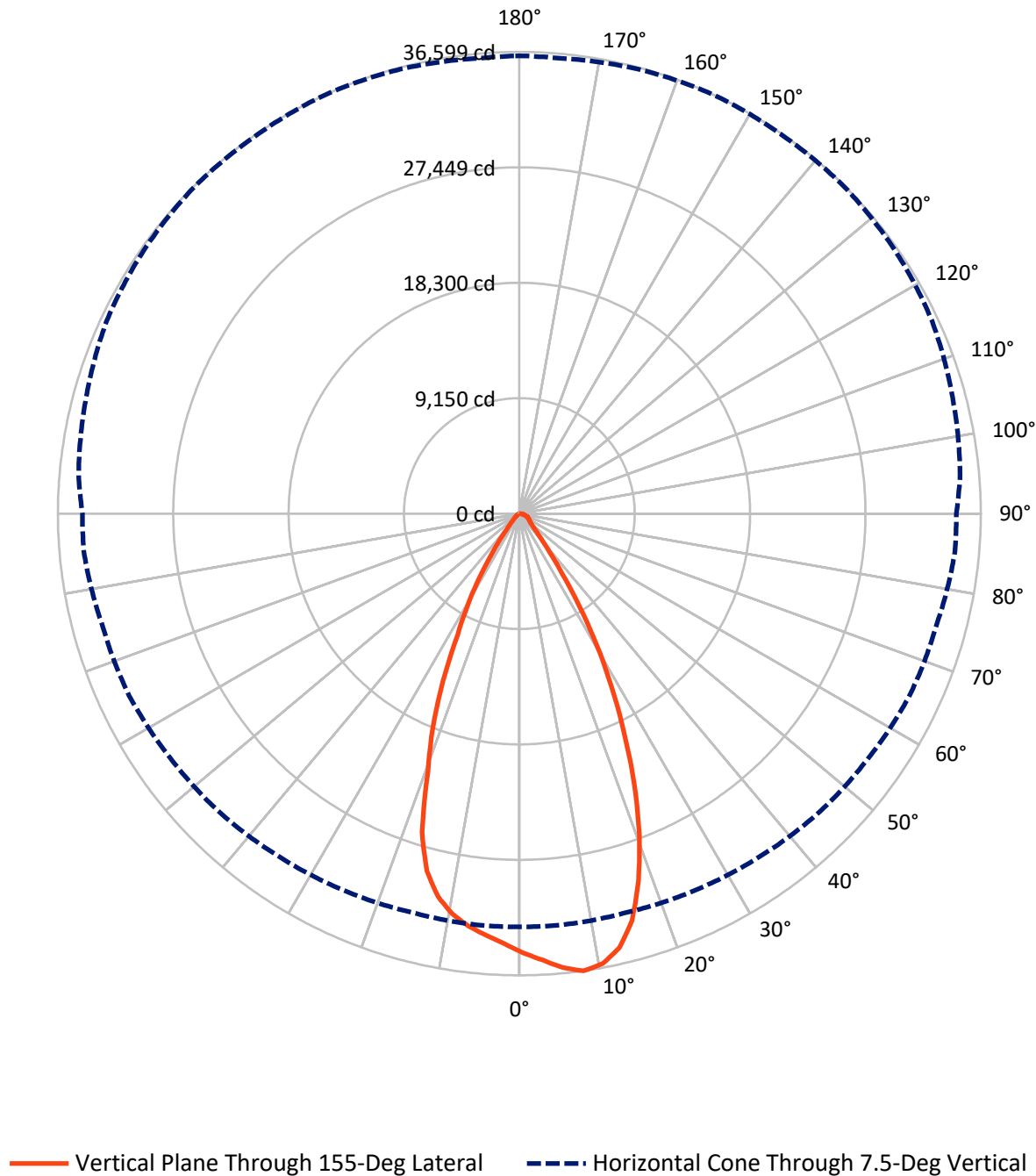


Based on 20 foot mounting height. Maximum calculated value = 88.5 fc

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	13800.7	0.0	13800.7
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	11198.9	0.0	11198.9
	% Fixture	44.8	0.0	44.8
Total	Lumens	24999.6	0.0	24999.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3320.9	13.3
10°-20°	8611.2	34.4
20°-30°	7890.2	31.6
30°-40°	3187.7	12.8
40°-50°	935.1	3.7
50°-60°	522.8	2.1
60°-70°	317.6	1.3
70°-80°	161.3	0.6
80°-90°	52.8	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°	24999.6	100.0
0°-180°	24999.6	100.0

Coefficient of Utilization



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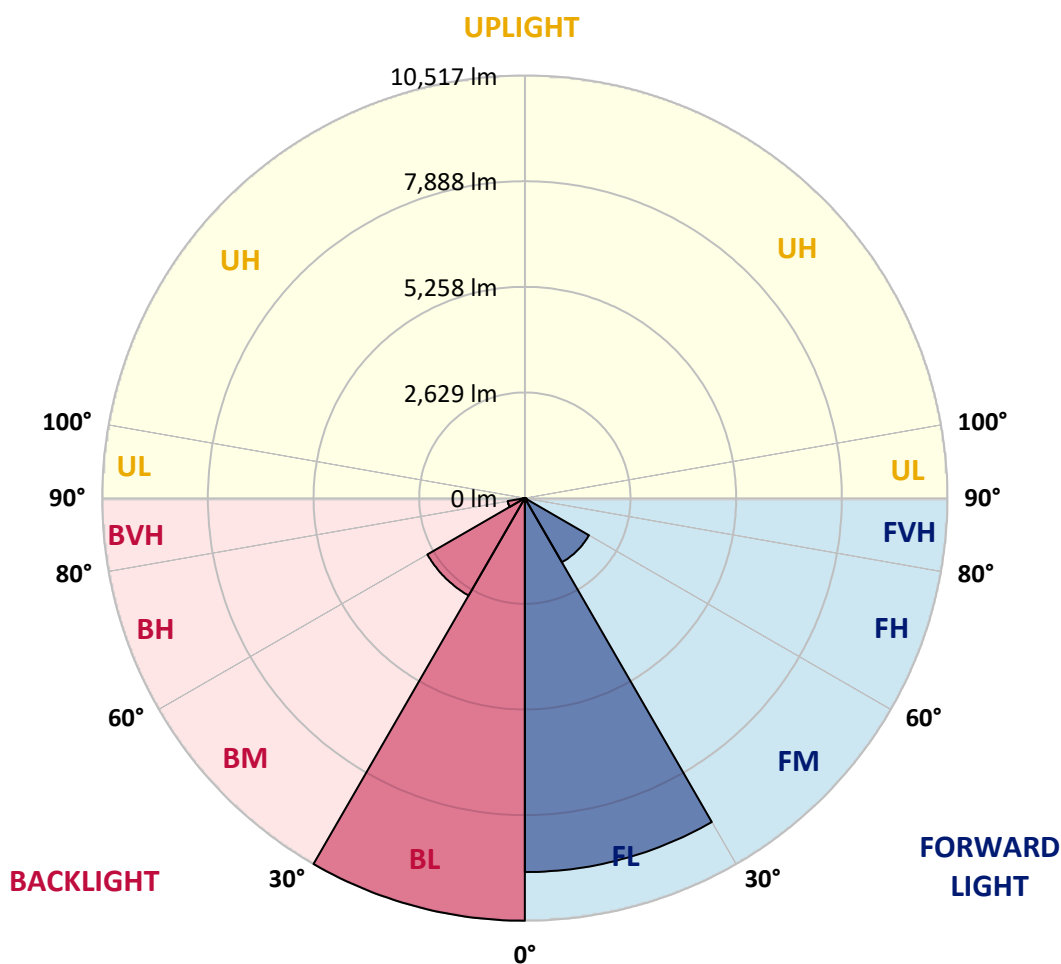
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	9305.5	37.2			
FM	(30°-60°)	1844.2	7.4			
FH	(60°-80°)	44.7	0.2			G0/660
FVH	(80°-90°)	4.6	0.0			G0/10
BL	(0°-30°)	10516.8	42.1	B5		
BM	(30°-60°)	2801.4	11.2	B3/5000		
BH	(60°-80°)	434.2	1.7	B1/500		G1/500
BVH	(80°-90°)	48.2	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-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	34826.4	34826.4	34826.4	34826.4	34826.4	34826.4	34826.4	34826.4	34826.4	34826.4
2.5°	34071.1	34186.5	33955.8	34108.6	34226.8	34509.3	34532.4	34630.4	34665.0	34921.6
5°	33425.4	33514.8	33327.4	33532.1	33699.3	33950.1	34143.2	34414.2	34564.1	34866.8
7.5°	32753.7	32773.9	32736.4	32952.6	33203.4	33549.4	33788.6	34143.2	34235.5	34667.9
10°	31940.8	31793.8	31865.8	32182.9	32557.7	33088.1	33252.4	33607.0	33771.3	34212.4
12.5°	30643.6	30718.5	30629.1	31032.7	31344.1	31946.6	32119.5	32477.0	32791.2	33180.4
15°	28815.9	28772.7	28954.3	29268.5	29605.8	30084.3	30363.9	30753.1	30992.4	31396.0
17.5°	24708.0	24855.0	25604.5	26391.5	27083.4	27642.6	27977.0	28299.9	28472.9	28911.0
20°	21338.1	21153.6	21254.5	21698.4	23667.3	24523.5	24875.2	24953.0	25025.1	25371.0
22.5°	17570.3	17509.8	17847.1	18345.8	18812.8	20787.5	21266.0	21084.4	21234.3	21560.0
25°	13047.3	13352.9	13652.7	14609.7	15215.1	16183.7	17091.8	17172.5	17227.3	17431.9
27.5°	10620.0	10513.4	10507.6	10775.7	11669.3	12476.5	13249.1	13427.8	13396.1	13592.1
30°	8348.4	8313.8	8192.8	8256.2	8166.8	8884.6	9247.8	9982.9	9942.6	9948.3
32.5°	6022.1	5892.3	5843.3	5938.5	5846.2	5779.9	6097.0	6927.2	6912.8	6970.5
35°	3643.8	3626.5	3666.8	3750.4	3566.0	3560.2	3626.5	4407.7	4502.8	4595.1
37.5°	2012.2	1994.9	2026.6	2335.0	2274.5	2219.7	2237.0	2649.2	2923.1	2992.3
40°	1326.1	1323.2	1346.2	1401.0	1504.8	1484.6	1493.3	1677.8	1937.2	1997.7
42.5°	887.9	890.8	905.2	968.6	983.0	1086.8	1069.5	1112.7	1354.9	1406.8
45°	709.2	706.3	714.9	686.1	703.4	810.1	821.6	824.5	1032.0	1063.7
47.5°	559.3	559.3	567.9	530.4	521.8	588.1	648.6	657.3	824.5	867.7
50°	392.1	392.1	435.3	418.0	438.2	458.4	524.7	533.3	674.6	720.7
52.5°	288.3	294.0	299.8	302.7	369.0	366.1	423.8	464.1	510.2	591.0
55°	219.1	224.9	210.4	224.9	273.9	305.6	317.1	374.8	406.5	495.8
57.5°	144.1	158.6	147.0	173.0	184.5	236.4	253.7	308.5	328.6	406.5
60°	20.2	23.1	37.5	121.1	129.7	155.7	196.0	245.0	265.2	331.5
62.5°	2.9	2.9	8.6	20.2	86.5	103.8	147.0	170.1	196.0	247.9
65°	0.0	0.0	2.9	5.8	17.3	60.5	75.0	92.2	135.5	178.7
67.5°	0.0	0.0	2.9	5.8	8.6	20.2	31.7	60.5	77.8	124.0
70°	0.0	0.0	2.9	5.8	8.6	11.5	17.3	23.1	46.1	72.1
72.5°	0.0	0.0	2.9	5.8	8.6	11.5	14.4	17.3	20.2	46.1
75°	0.0	0.0	2.9	5.8	8.6	14.4	17.3	17.3	17.3	20.2
77.5°	0.0	0.0	2.9	5.8	11.5	17.3	20.2	17.3	14.4	14.4
80°	0.0	0.0	2.9	8.6	14.4	20.2	23.1	17.3	11.5	8.6
82.5°	0.0	0.0	2.9	8.6	14.4	20.2	23.1	20.2	11.5	8.6
85°	0.0	0.0	2.9	8.6	11.5	14.4	23.1	20.2	11.5	5.8
87.5°	0.0	0.0	0.0	2.9	2.9	5.8	11.5	8.6	5.8	2.9
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°
34826.4	0°	34826.4	34826.4	34826.4	34826.4	34826.4	34826.4	34826.4	34826.4	34826.4
34915.8	2.5°	35175.2	35305.0	35532.7	35596.1	35792.1	35567.3	35443.3	35454.9	35186.8
34829.3	5°	35175.2	35472.2	35870.0	36060.2	36204.4	36192.8	36161.1	36080.4	35884.4
34656.3	7.5°	35083.0	35567.3	36115.0	36368.7	36541.7	36527.2	36599.3	36469.6	36230.3
34347.9	10°	34786.1	35206.9	35881.5	36089.1	36368.7	36374.5	36285.1	36311.0	35884.4
33220.7	12.5°	33852.1	34180.7	34771.6	35008.0	35348.2	35403.0	35305.0	35267.5	34863.9
31372.9	15°	32044.6	32234.8	32828.7	33065.1	33402.3	33356.2	33454.2	33413.9	33059.3
28876.4	17.5°	29401.1	29461.6	30084.3	30283.2	30600.3	30724.3	30577.3	30764.6	30459.1
25431.6	20°	25610.3	25936.0	26636.5	26942.1	27126.6	27348.6	27155.4	27365.9	27008.4
21251.6	22.5°	21764.7	21957.9	22592.1	23033.1	23376.2	23419.4	23347.3	23494.4	23012.9
17567.4	25°	17564.6	17884.5	18386.1	18962.7	19300.0	19507.5	19320.1	19415.3	19337.4
13623.8	27.5°	13854.5	14139.9	14517.5	14947.0	15454.4	15725.4	15575.5	15736.9	15356.4
10158.8	30°	10167.4	10311.6	10738.2	11193.7	11750.1	12078.7	12093.1	12257.4	12032.6
7117.5	32.5°	7169.4	7296.2	7558.6	7861.2	8391.7	8757.8	8700.1	8723.2	8584.8
4638.3	35°	4661.4	4831.5	5018.9	5163.0	5483.0	5886.6	5854.9	5826.0	5730.9
3049.9	37.5°	3116.2	3182.5	3286.3	3416.1	3623.6	3877.3	3960.9	3857.1	3816.8
2058.3	40°	2107.3	2222.6	2291.8	2389.8	2487.8	2701.1	2758.8	2738.6	2698.2
1441.4	42.5°	1496.1	1585.5	1672.0	1767.1	1819.0	1951.6	2064.0	2032.3	2015.0
1095.4	45°	1135.8	1216.5	1317.4	1389.5	1441.4	1519.2	1625.9	1637.4	1611.5
879.2	47.5°	910.9	983.0	1063.7	1153.1	1213.6	1262.6	1354.9	1389.5	1372.2
740.9	50°	772.6	827.3	905.2	994.5	1060.8	1104.1	1184.8	1222.3	1210.8
619.8	52.5°	657.3	723.6	795.6	870.6	951.3	994.5	1069.5	1124.3	1115.6
513.1	55°	544.8	631.3	706.3	781.2	873.5	916.7	983.0	1055.1	1040.7
435.3	57.5°	475.7	547.7	625.6	697.6	795.6	853.3	913.8	988.8	985.9
357.5	60°	397.8	469.9	556.4	616.9	720.7	801.4	856.2	934.0	939.8
271.0	62.5°	317.1	406.5	472.8	556.4	651.5	746.6	798.5	876.4	905.2
207.6	65°	236.4	334.4	409.3	492.9	582.3	689.0	735.1	812.9	841.8
149.9	67.5°	175.8	250.8	345.9	418.0	518.9	611.1	665.9	738.0	758.2
89.4	70°	132.6	193.1	288.3	351.7	455.5	530.4	585.2	640.0	665.9
60.5	72.5°	77.8	144.1	227.7	302.7	392.1	455.5	495.8	539.1	556.4
28.8	75°	54.8	109.5	178.7	250.8	317.1	369.0	406.5	443.9	461.2
14.4	77.5°	28.8	80.7	141.3	201.8	247.9	291.2	328.6	357.5	369.0
11.5	80°	17.3	57.7	115.3	158.6	190.3	227.7	265.2	285.4	282.5
8.6	82.5°	11.5	46.1	83.6	115.3	138.4	167.2	193.1	207.6	207.6
5.8	85°	8.6	31.7	57.7	89.4	92.2	115.3	121.1	135.5	138.4
5.8	87.5°	5.8	20.2	31.7	51.9	49.0	60.5	63.4	72.1	77.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
34826.4
34970.6
35947.8
36285.1
35760.4
34771.6
33171.7
30384.1
26979.6
22946.6
19288.4
15454.4
12072.9
8662.6
5647.3
3808.1
2704.0
2000.6
1608.6
1363.5
1207.9
1109.9
1040.7
983.0
939.8
902.3
838.9
758.2
660.1
550.6
455.5
366.1
279.6
204.7
135.5
75.0
0.0

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