

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: P637817

Luminaire Tested: **IFLD-S-SA3C-727-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637817
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-727-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (48) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14937.1 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

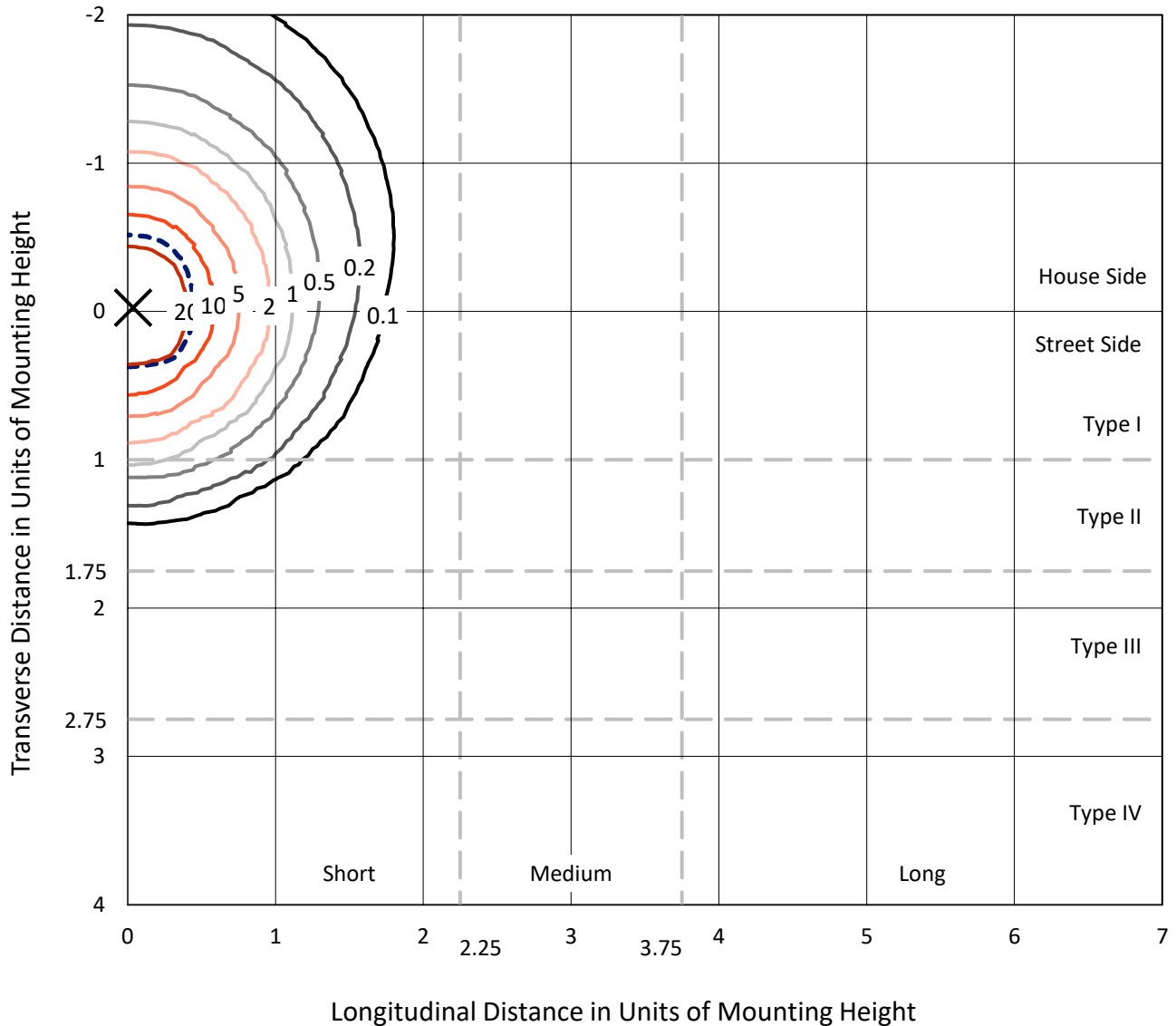
Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

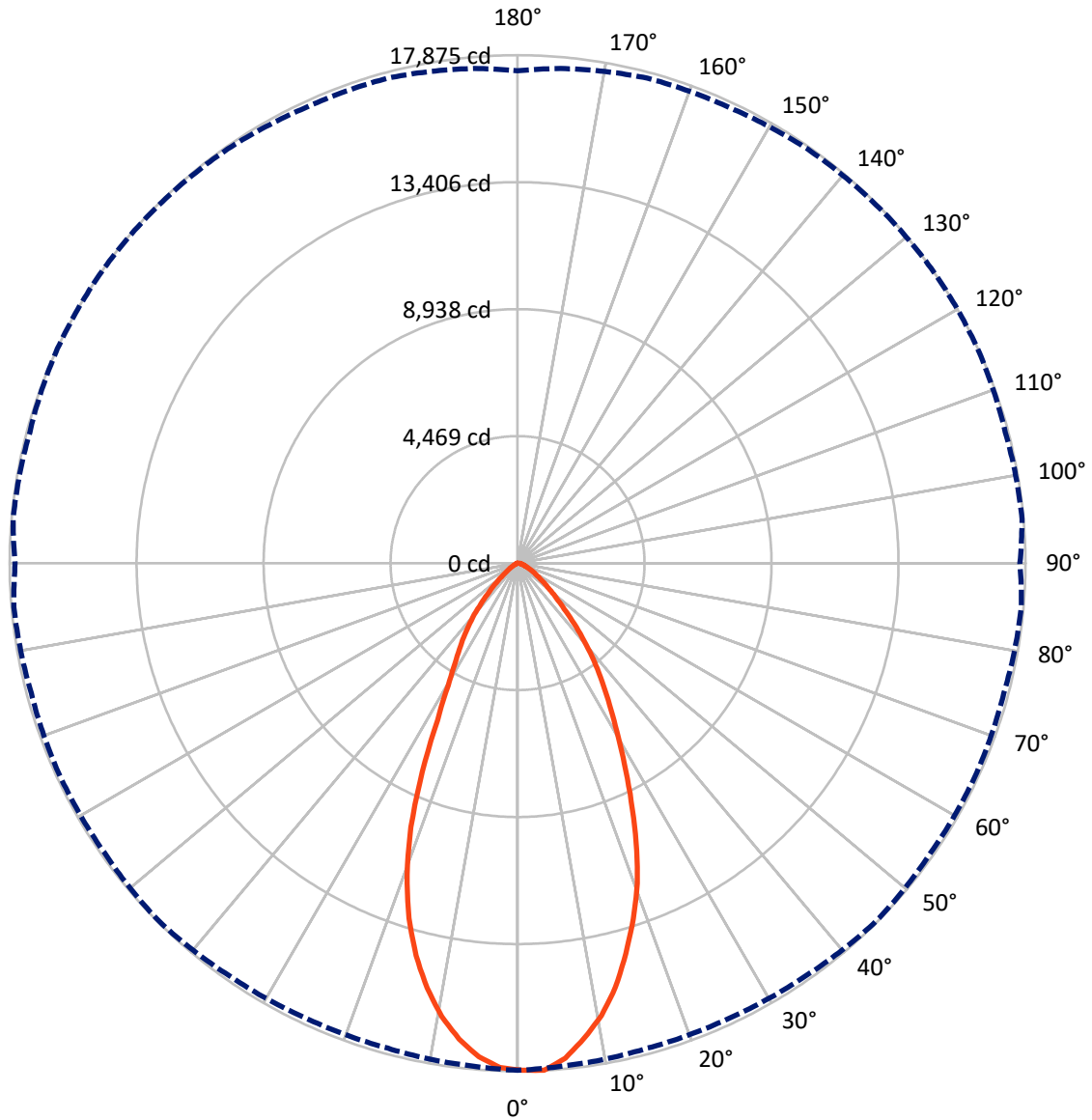
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 44.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8475.9	0.0	8475.9
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	6461.2	0.0	6461.2
	% Fixture	43.3	0.0	43.3
Total	Lumens	14937.1	0.0	14937.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1620.5	10.8
10°-20°	3862.9	25.9
20°-30°	3934.3	26.3
30°-40°	2933.8	19.6
40°-50°	1532.7	10.3
50°-60°	644.7	4.3
60°-70°	263.3	1.8
70°-80°	110.8	0.7
80°-90°	34.1	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°	14937.1	100.0
0°-180°	14937.1	100.0



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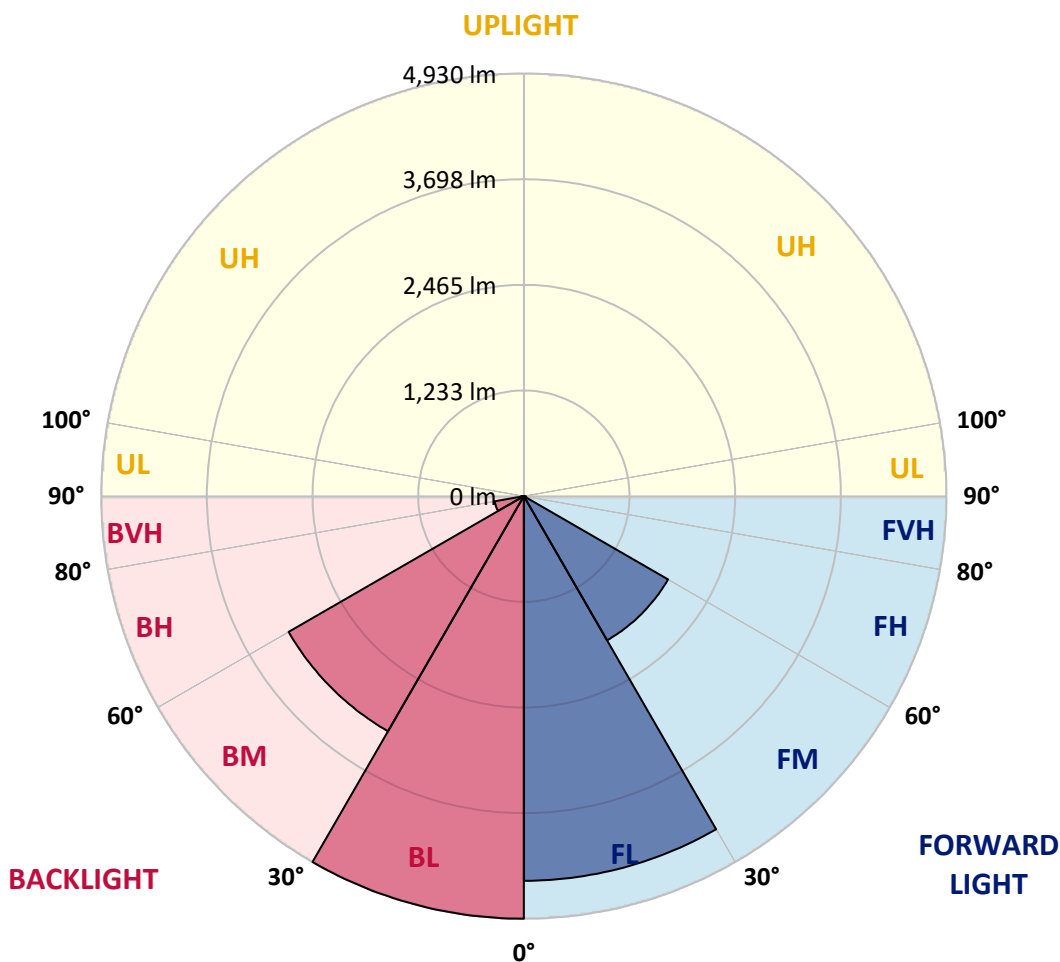
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4487.3	30.0			
FM (30°-60°)	1942.6	13.0			
FH (60°-80°)	28.1	0.2			G0/660
FVH (80°-90°)	3.2	0.0			G0/10
BL (0°-30°)	4930.4	33.0	B4/5000		
BM (30°-60°)	3168.5	21.2	B3/5000		
BH (60°-80°)	346.0	2.3	B1/500		G1/500
BVH (80°-90°)	31.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	17846.2	17846.2	17846.2	17846.2	17846.2	17846.2	17846.2	17846.2	17846.2	17846.2
2.5°	17848.1	17775.2	17671.6	17662.0	17715.7	17832.8	17757.9	17761.8	17715.7	17794.4
5°	17568.0	17498.9	17427.9	17333.9	17412.6	17462.4	17424.1	17381.9	17322.4	17399.1
7.5°	17038.4	17000.0	16894.5	16852.3	16900.2	16955.9	16873.4	16861.9	16779.4	16879.1
10°	16228.7	16213.3	16109.7	16084.8	16127.0	16211.4	16175.0	16167.3	16115.5	16105.9
12.5°	15388.3	15328.8	15200.2	15192.6	15255.9	15382.5	15284.7	15190.7	15219.4	15244.4
15°	13223.9	13160.6	13479.1	13979.9	14242.8	14233.2	14262.0	14148.8	14114.2	14125.8
17.5°	10512.8	10405.3	10520.4	11295.6	12544.7	13270.0	13070.4	12826.8	12696.3	12610.0
20°	9073.7	9079.5	9058.4	9257.9	10036.9	11690.9	11642.9	11172.8	11002.0	10931.1
22.5°	8198.8	8166.2	8120.1	8183.4	8392.6	9363.4	10013.9	9582.2	9522.7	9444.0
25°	7341.1	7341.1	7285.5	7348.8	7408.2	7421.7	8074.1	8250.6	8135.5	8135.5
27.5°	6598.5	6560.2	6535.2	6564.0	6485.3	6107.3	6189.9	7093.6	7014.9	6966.9
30°	5861.7	5850.2	5808.0	5846.4	5554.7	5128.8	4956.1	5986.5	6069.0	6051.7
32.5°	4839.1	4885.1	5073.1	5132.6	4633.8	4290.3	4125.3	4969.5	5299.6	5286.1
35°	3288.7	3327.1	3542.0	4251.9	3841.3	3595.7	3547.7	3952.6	4495.6	4547.4
37.5°	2619.1	2613.3	2674.7	2801.4	3087.3	3027.8	3014.3	3119.9	3666.7	3689.7
40°	2158.6	2150.9	2149.0	2045.4	1974.4	2517.4	2480.9	2417.6	2891.5	2937.6
42.5°	1740.3	1748.0	1753.7	1527.3	1423.7	1941.8	1920.7	1855.4	2267.9	2321.7
45°	1366.1	1364.2	1375.7	1137.8	1109.0	1241.4	1435.2	1383.4	1711.5	1769.1
47.5°	708.0	733.0	888.4	880.7	894.1	880.7	1086.0	1072.6	1287.5	1379.6
50°	475.8	483.5	497.0	498.9	704.2	648.5	736.8	834.7	901.8	1043.8
52.5°	368.4	374.2	339.6	318.5	431.7	479.7	483.5	577.5	629.3	773.3
55°	205.3	230.2	247.5	249.4	237.9	355.0	353.0	427.9	468.2	564.1
57.5°	26.9	32.6	49.9	161.2	159.3	197.6	247.5	310.8	333.9	412.5
60°	1.9	3.8	5.8	24.9	105.5	115.1	168.8	193.8	232.2	289.7
62.5°	0.0	0.0	1.9	5.8	21.1	67.2	88.3	101.7	136.2	190.0
65°	0.0	0.0	1.9	3.8	7.7	24.9	34.5	55.6	80.6	117.0
67.5°	0.0	0.0	1.9	3.8	5.8	9.6	15.3	24.9	42.2	71.0
70°	0.0	0.0	1.9	3.8	5.8	7.7	11.5	15.3	23.0	38.4
72.5°	0.0	0.0	1.9	1.9	3.8	9.6	9.6	11.5	15.3	21.1
75°	0.0	0.0	1.9	3.8	5.8	9.6	9.6	9.6	11.5	13.4
77.5°	0.0	0.0	1.9	3.8	5.8	9.6	7.7	9.6	9.6	9.6
80°	0.0	0.0	1.9	3.8	5.8	9.6	11.5	9.6	7.7	7.7
82.5°	0.0	0.0	1.9	5.8	5.8	13.4	13.4	13.4	5.8	5.8
85°	0.0	0.0	3.8	5.8	9.6	15.3	15.3	11.5	5.8	3.8
87.5°	0.0	0.0	1.9	3.8	3.8	7.7	11.5	9.6	3.8	1.9
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°
17846.2	0°	17846.2	17846.2	17846.2	17846.2	17846.2	17846.2	17846.2	17846.2	17846.2
17679.3	2.5°	17821.2	17773.3	17863.5	17875.0	17836.6	17788.6	17677.3	17667.7	17474.0
17287.8	5°	17483.5	17404.9	17462.4	17500.8	17487.4	17435.6	17389.5	17347.3	17172.7
16652.7	7.5°	16854.2	16825.4	16852.3	16881.1	16936.7	16881.1	16861.9	16817.7	16645.1
16027.2	10°	16155.8	16102.1	16203.7	16190.3	16175.0	16159.6	16079.0	16086.7	15883.3
15175.3	12.5°	15298.1	15207.9	15305.8	15317.3	15305.8	15252.1	15161.9	15200.2	15014.1
14024.1	15°	14144.9	14135.3	14206.3	14252.4	14285.0	14227.4	14196.7	14215.9	14104.6
12542.8	17.5°	12728.9	12853.6	13085.8	13164.5	13166.4	13225.9	13208.6	13185.6	13103.1
10902.3	20°	11063.4	11303.3	11660.2	12026.7	12132.2	12082.3	12059.3	12101.5	11978.7
9361.5	22.5°	9526.5	9731.8	10146.3	10681.6	10990.5	11021.2	11015.5	10979.0	10931.1
8127.8	25°	8221.8	8404.1	8801.3	9290.5	9883.4	9971.7	9975.5	9964.0	9921.8
7009.2	27.5°	7120.4	7341.1	7559.8	7997.3	8628.6	8993.1	8947.1	8933.6	8918.3
6065.1	30°	6122.7	6400.9	6606.2	6878.7	7444.7	7937.8	7985.8	7962.8	7926.3
5284.2	32.5°	5332.2	5497.2	5758.1	5942.3	6349.1	6907.5	7091.7	7074.4	7041.8
4580.0	35°	4645.3	4710.5	4915.8	5121.1	5391.7	5932.7	6205.2	6166.8	6161.1
3731.9	37.5°	3826.0	4044.7	4157.9	4365.1	4555.1	4975.3	5351.4	5334.1	5336.0
3000.9	40°	3089.2	3215.8	3440.3	3614.9	3789.5	4096.5	4514.8	4526.3	4522.5
2323.6	42.5°	2371.6	2494.4	2730.4	2920.3	3075.7	3265.7	3664.8	3678.2	3695.5
1809.4	45°	1851.6	1930.3	2102.9	2300.6	2465.6	2580.7	2883.9	2970.2	2972.1
1402.6	47.5°	1437.1	1527.3	1650.1	1840.1	2001.2	2083.8	2304.4	2421.4	2415.7
1076.4	50°	1128.2	1210.7	1310.5	1460.2	1634.8	1700.0	1863.1	1978.2	1972.5
811.6	52.5°	863.4	969.0	1057.2	1172.3	1343.1	1398.8	1515.8	1648.2	1629.0
594.8	55°	654.3	761.7	844.2	940.2	1095.6	1166.6	1247.2	1352.7	1356.5
460.5	57.5°	493.1	604.4	679.2	777.1	894.1	972.8	1034.2	1147.4	1145.5
314.7	60°	353.0	449.0	539.2	640.9	731.0	821.2	863.4	970.9	974.7
222.6	62.5°	255.2	345.4	431.7	520.0	600.6	688.8	727.2	811.6	823.1
145.8	65°	178.4	241.8	341.5	408.7	498.9	564.1	614.0	686.9	700.3
86.3	67.5°	115.1	174.6	270.5	330.0	412.5	468.2	520.0	577.5	594.8
55.6	70°	69.1	132.4	201.5	264.8	339.6	389.5	439.4	489.3	498.9
26.9	72.5°	44.1	92.1	145.8	214.9	272.5	326.2	370.3	406.8	378.0
17.3	75°	24.9	63.3	115.1	168.8	220.7	272.5	308.9	328.1	262.9
11.5	77.5°	15.3	46.0	94.0	136.2	170.8	218.7	241.8	253.3	188.0
7.7	80°	9.6	34.5	78.7	111.3	111.3	161.2	188.0	197.6	136.2
5.8	82.5°	7.7	24.9	61.4	84.4	74.8	120.9	147.7	149.7	95.9
3.8	85°	5.8	19.2	38.4	55.6	51.8	84.4	86.3	95.9	63.3
3.8	87.5°	3.8	11.5	23.0	32.6	28.8	40.3	46.0	51.8	34.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
17846.2
17322.4
17032.6
16608.6
15814.2
14960.4
13970.3
12980.3
11890.4
10839.0
9779.8
8828.1
7880.3
6955.4
6097.8
5274.6
4455.3
3637.9
2922.2
2394.6
1972.5
1630.9
1356.5
1141.6
965.1
819.3
696.5
592.9
491.2
351.1
249.4
176.5
126.6
88.3
57.6
30.7
0.0

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