

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: P638553

Luminaire Tested: **IFLD-M-SA4D-830-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638553
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-830-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18321.4 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

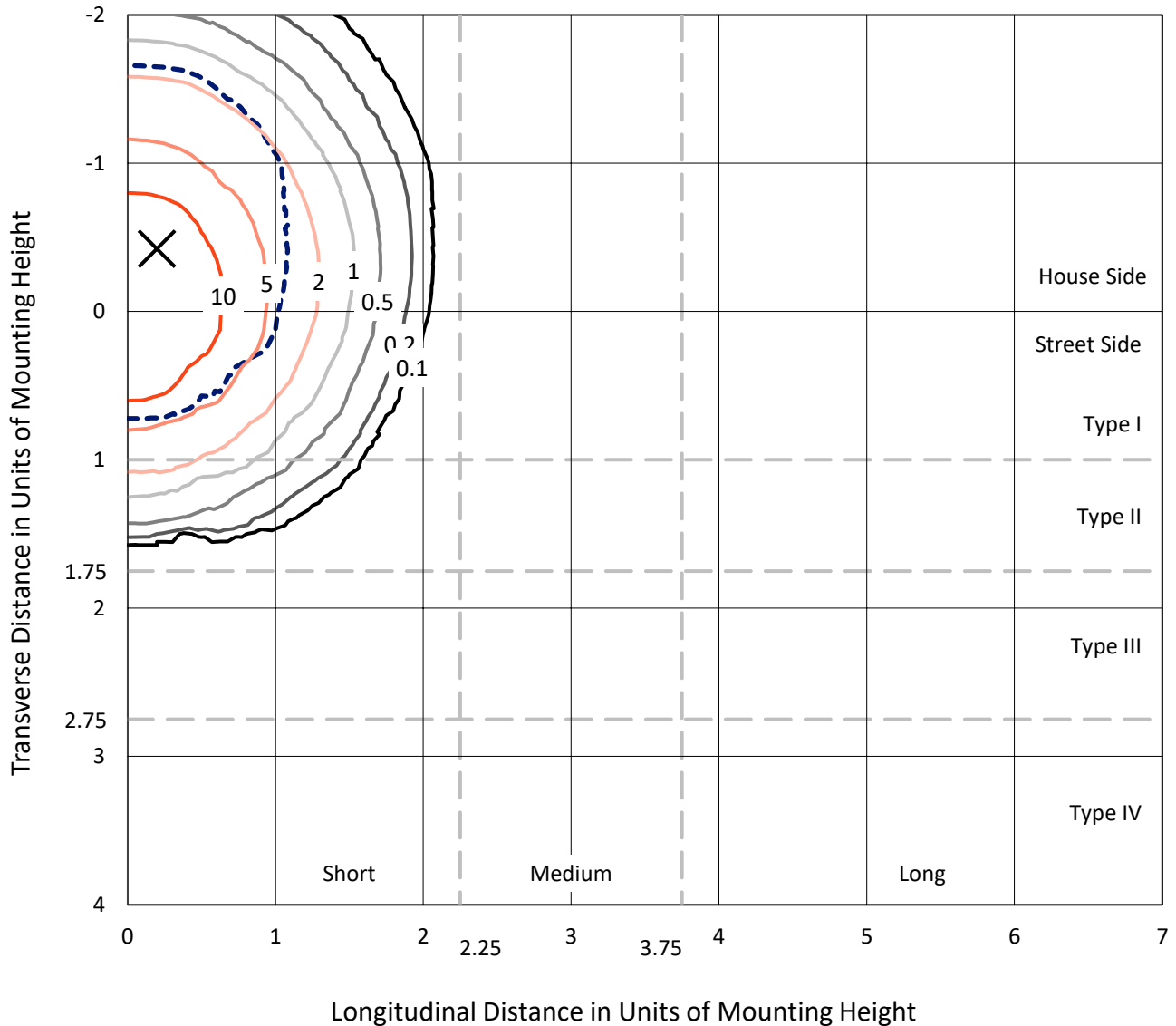
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

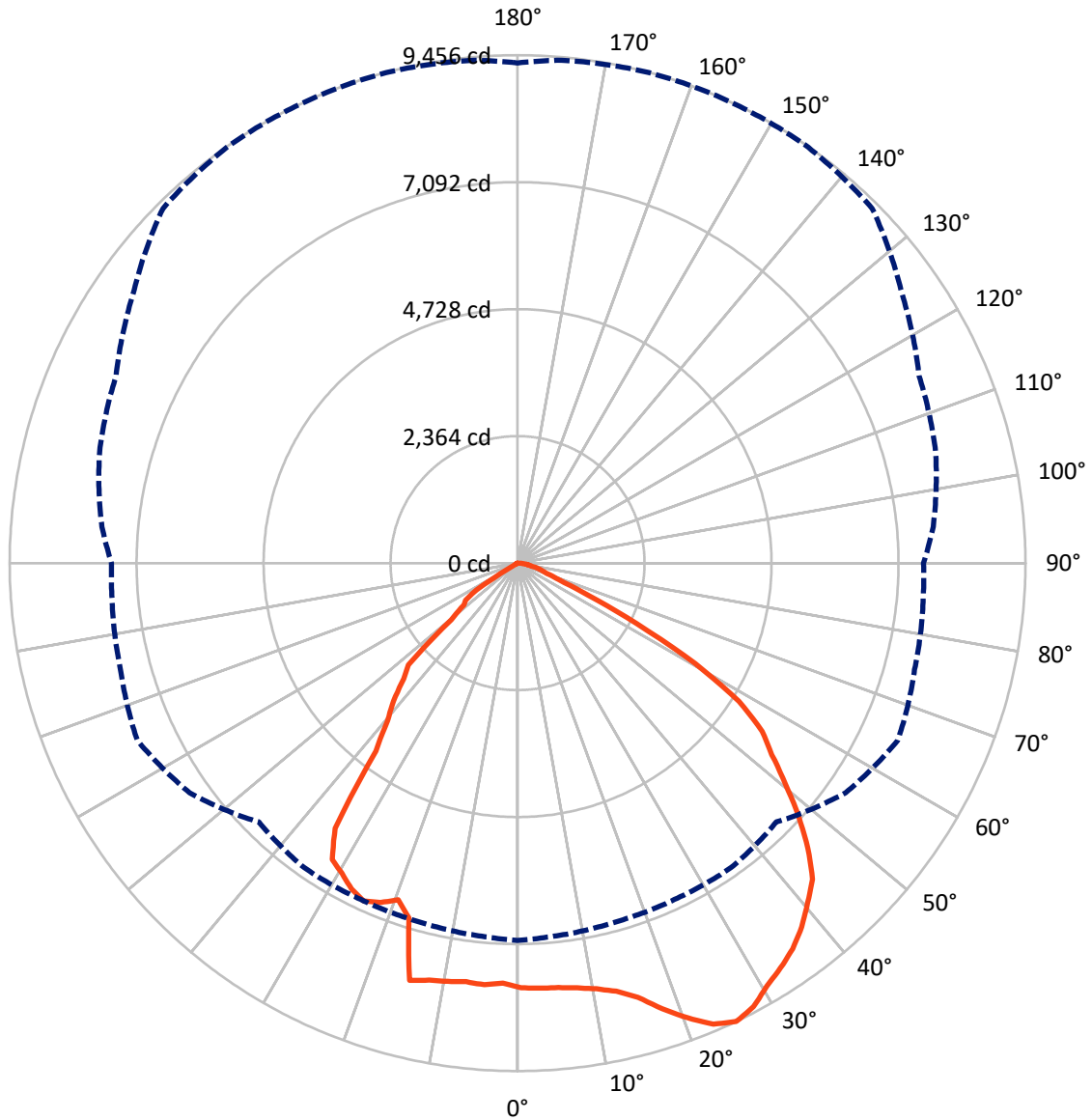
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 19.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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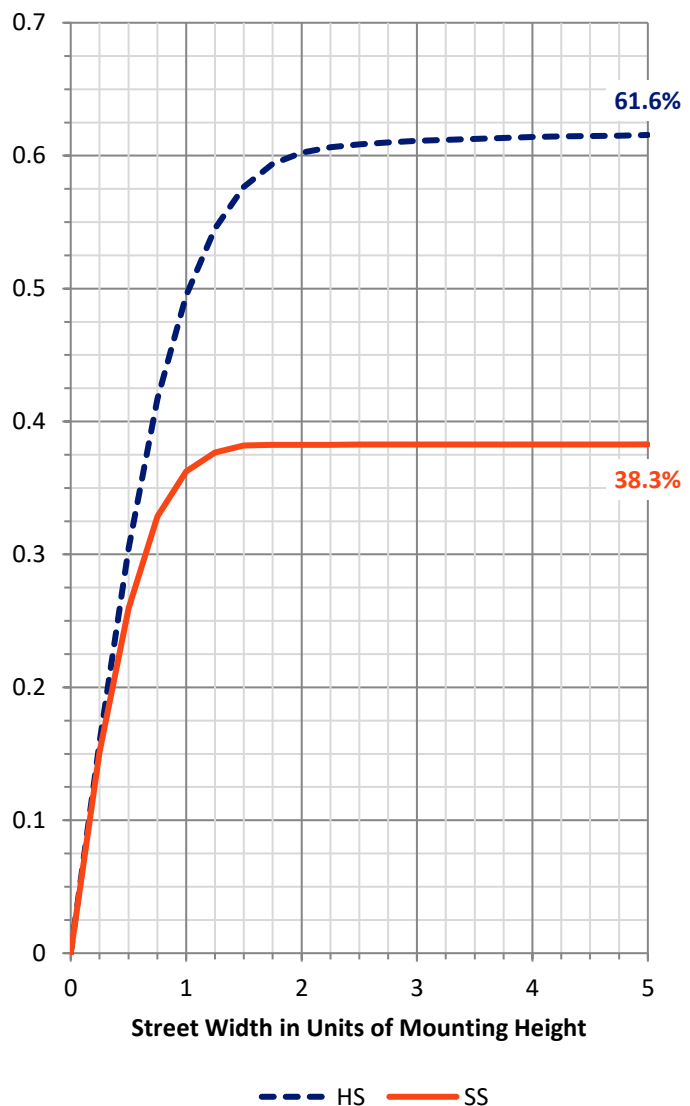
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11342.8	0.0	11342.8
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	6978.6	0.0	6978.6
	% Fixture	38.1	0.0	38.1
Total	Lumens	18321.4	0.0	18321.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	758.4	4.1
10°-20°	2315.8	12.6
20°-30°	3661.1	20.0
30°-40°	4135.6	22.6
40°-50°	3873.0	21.1
50°-60°	2670.2	14.6
60°-70°	717.4	3.9
70°-80°	149.5	0.8
80°-90°	40.4	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°	18321.4	100.0
0°-180°	18321.4	100.0



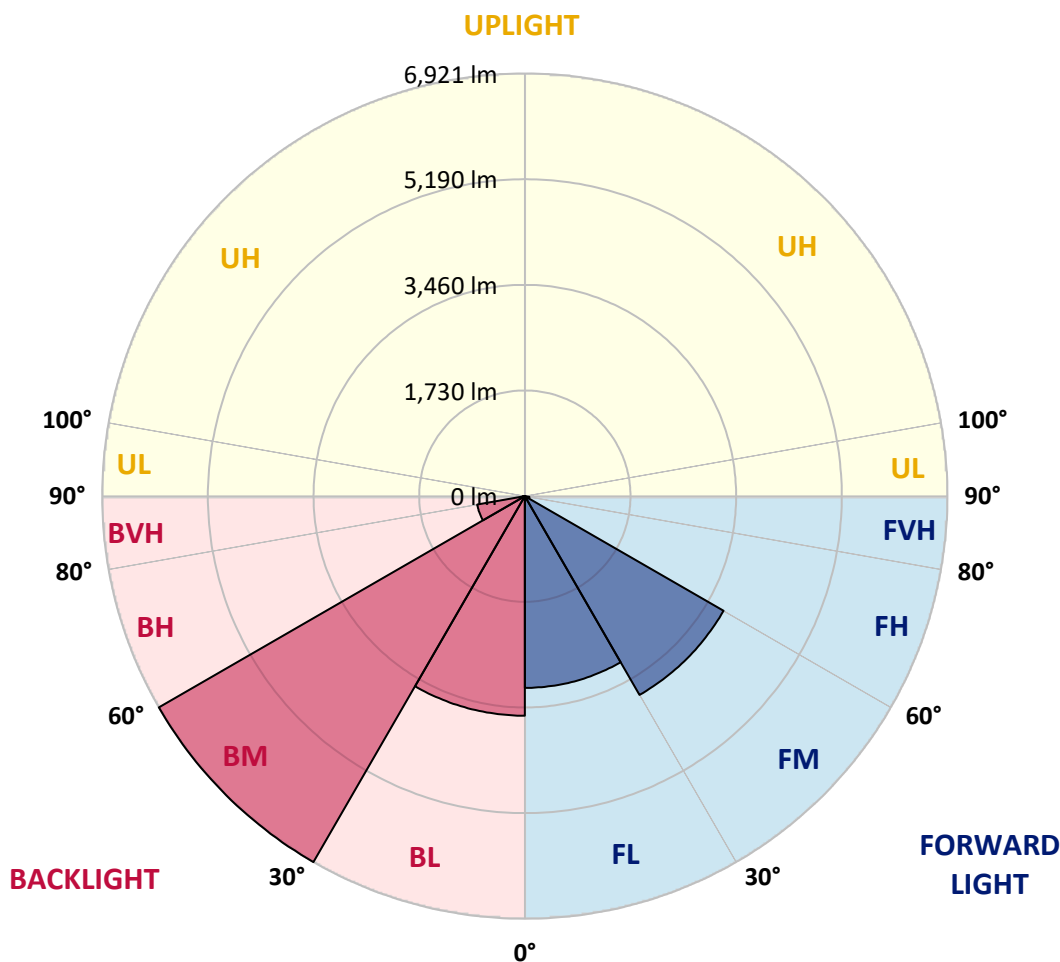
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3139.7	17.1			
FM (30°-60°)	3758.1	20.5			
FH (60°-80°)	75.3	0.4			G0/660
FVH (80°-90°)	5.4	0.0			G0/10
BL (0°-30°)	3595.6	19.6	B4/5000		
BM (30°-60°)	6920.6	37.8	B4/8500		
BH (60°-80°)	791.6	4.3	B2/1000		G2/1000
BVH (80°-90°)	35.0	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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7905.4	7905.4	7905.4	7905.4	7905.4	7905.4	7905.4	7905.4	7905.4	7905.4
2.5°	7940.4	7889.2	7840.7	7824.6	7891.9	7964.6	7918.8	7921.5	7905.4	7935.0
5°	7999.6	7929.6	7897.3	7873.1	7883.8	7959.2	7894.6	7918.8	7891.9	7926.9
7.5°	7978.1	7929.6	7897.3	7851.5	7886.5	7975.4	7913.4	7916.1	7902.7	7935.0
10°	7964.6	7929.6	7889.2	7894.6	7935.0	8010.4	7961.9	7988.8	7970.0	7988.8
12.5°	7996.9	7959.2	7937.7	7937.7	7972.7	8058.8	8034.6	8058.8	8050.8	8066.9
15°	7692.6	7727.7	7932.3	8023.8	8093.8	8180.0	8169.2	8193.5	8198.9	8223.1
17.5°	6489.1	6454.1	6437.9	6909.1	8161.2	8427.7	8419.6	8416.9	8390.0	8371.2
20°	6647.9	6634.5	6615.6	6650.6	6790.6	8557.0	8610.8	8279.6	8182.7	8174.6
22.5°	6901.0	6879.5	6809.5	6812.2	6855.3	7439.5	8344.2	8042.7	8010.4	7991.5
25°	7024.9	6981.8	6925.3	6909.1	6922.6	6814.9	7453.0	7811.1	7652.3	7579.6
27.5°	6806.8	6809.5	6763.7	6806.8	6755.6	6271.0	5999.0	7358.8	7353.4	7321.1
30°	6642.6	6634.5	6580.6	6634.5	6281.7	5740.5	5624.8	6863.3	6806.8	6763.7
32.5°	6139.0	6144.4	6300.6	6510.6	5931.7	5503.6	5153.6	6131.0	6666.8	6642.6
35°	4391.6	4402.3	4957.0	5993.6	5401.3	5032.4	5005.5	5299.0	6446.0	6456.8
37.5°	4227.3	4227.3	4213.9	4383.5	4983.9	4841.2	4895.1	4865.5	5904.8	5931.7
40°	4108.8	4084.6	4065.8	3799.2	3465.3	4706.6	4744.3	4609.7	5581.7	5587.1
42.5°	3966.1	3939.2	3944.6	3451.9	3101.8	4372.7	4267.7	4087.3	5043.2	5048.6
45°	3705.0	3750.7	3783.0	3021.1	2994.1	3123.4	3936.5	3823.4	4679.7	4779.3
47.5°	1884.8	1925.2	2953.7	2778.7	2840.7	2776.0	3325.3	3328.0	3893.4	4224.6
50°	1709.8	1699.0	1701.7	1620.9	2622.6	2245.6	2404.5	3050.7	3118.0	3591.9
52.5°	1594.0	1591.3	1427.1	1268.2	1647.8	1976.3	1744.8	2207.9	2318.3	3042.6
55°	1179.3	1265.5	1125.5	1192.8	1031.3	1583.2	1575.1	1992.5	2030.2	2439.5
57.5°	10.8	13.5	32.3	907.4	713.5	791.6	1087.8	1359.7	1427.1	1900.9
60°	2.7	5.4	13.5	26.9	463.1	487.4	727.0	786.2	885.9	1133.6
62.5°	0.0	0.0	5.4	13.5	24.2	199.2	231.6	253.1	390.4	578.9
65°	0.0	0.0	2.7	8.1	13.5	32.3	56.5	118.5	169.6	210.0
67.5°	0.0	0.0	2.7	5.4	10.8	16.2	32.3	45.8	72.7	123.9
70°	0.0	0.0	2.7	5.4	8.1	13.5	21.5	32.3	43.1	61.9
72.5°	0.0	0.0	2.7	5.4	5.4	16.2	16.2	24.2	32.3	40.4
75°	0.0	0.0	2.7	2.7	5.4	10.8	16.2	18.8	21.5	32.3
77.5°	0.0	0.0	2.7	5.4	8.1	10.8	13.5	21.5	18.8	18.8
80°	0.0	0.0	2.7	8.1	8.1	13.5	16.2	21.5	13.5	13.5
82.5°	0.0	0.0	2.7	10.8	8.1	26.9	26.9	29.6	10.8	10.8
85°	0.0	0.0	8.1	5.4	16.2	26.9	24.2	16.2	13.5	8.1
87.5°	0.0	0.0	2.7	2.7	5.4	8.1	18.8	16.2	5.4	5.4
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°
7905.4	0°	7905.4	7905.4	7905.4	7905.4	7905.4	7905.4	7905.4	7905.4	7905.4
7856.9	2.5°	7964.6	7929.6	8002.3	7994.2	7959.2	7943.1	7924.2	7908.1	7789.6
7862.3	5°	7967.3	7913.4	8002.3	7986.1	7980.8	7953.8	7937.7	7961.9	7854.2
7883.8	7.5°	7967.3	7913.4	8010.4	8015.8	8007.7	7986.1	7983.4	7999.6	7910.7
7921.5	10°	8021.1	7999.6	8080.4	8088.5	8077.7	8072.3	8058.8	8048.1	7953.8
8050.8	12.5°	8134.2	8091.1	8182.7	8206.9	8198.9	8212.3	8180.0	8196.2	8099.2
8182.7	15°	8271.6	8274.2	8344.2	8398.1	8392.7	8435.8	8387.3	8430.4	8360.4
8333.5	17.5°	8481.6	8511.2	8610.8	8691.6	8721.2	8753.5	8721.2	8734.7	8635.0
8166.5	20°	8260.8	8371.2	8850.5	8998.5	9060.5	9090.1	9036.2	9052.4	8952.8
7961.9	22.5°	8061.5	8204.2	8629.7	9092.8	9284.0	9343.2	9324.3	9321.6	9284.0
7558.0	25°	7768.0	8056.1	8247.3	8737.4	9337.8	9445.5	9456.3	9453.6	9397.0
7310.3	27.5°	7407.2	7471.9	7967.3	8266.2	8960.8	9370.1	9354.0	9275.9	9200.5
6796.0	30°	6946.8	7240.3	7463.8	7940.4	8473.5	9138.6	9138.6	9079.3	9001.2
6612.9	32.5°	6712.6	7092.2	7299.5	7471.9	7926.9	8880.1	8987.8	8925.8	8863.9
6470.2	35°	6588.7	6645.2	7129.9	7286.1	7671.1	8381.9	8818.1	8756.2	8710.4
6090.6	37.5°	6316.8	6448.7	6674.9	7092.2	7210.7	7975.4	8592.0	8559.7	8505.8
5597.8	40°	5710.9	6063.6	6411.0	6806.8	6930.7	7453.0	8317.3	8330.8	8258.1
5072.8	42.5°	5352.8	5592.5	6136.3	6402.9	6736.8	7116.4	8050.8	8072.3	8021.1
4806.2	45°	4932.8	5199.3	5581.7	6066.3	6521.4	6653.3	7579.6	7805.7	7762.7
4275.8	47.5°	4547.7	4763.1	5231.6	5721.7	6225.2	6206.4	7038.4	7463.8	7404.5
3869.2	50°	4001.1	4378.1	4598.9	5048.6	5799.8	5850.9	6462.1	7062.6	7014.1
3287.6	52.5°	3373.8	3847.7	4270.4	4682.4	5369.0	5490.1	5926.3	6653.3	6621.0
2512.2	55°	2948.4	3293.0	3769.6	4100.8	4846.6	5169.7	5525.1	6262.9	6246.7
2065.2	57.5°	2097.5	2762.6	3155.7	3618.8	4011.9	4596.2	4860.1	5468.6	5317.8
1144.3	60°	1421.7	1734.0	2213.3	2711.4	2975.3	3559.6	3804.6	4291.9	4251.6
683.9	62.5°	751.2	1039.3	1381.3	1631.7	1822.9	2391.0	2493.3	3018.4	3004.9
274.6	65°	331.2	438.9	748.5	877.8	1074.3	1338.2	1427.1	1615.5	1569.8
134.6	67.5°	172.3	261.2	422.7	519.7	654.3	753.9	826.6	885.9	923.5
88.9	70°	105.0	191.2	261.2	360.8	449.7	530.4	587.0	667.8	716.2
45.8	72.5°	78.1	121.2	180.4	277.3	325.8	420.0	476.6	535.8	578.9
37.7	75°	43.1	80.8	145.4	218.1	261.2	342.0	393.1	433.5	447.0
21.5	77.5°	26.9	61.9	121.2	169.6	204.6	277.3	263.9	301.6	333.9
16.2	80°	18.8	45.8	94.2	140.0	142.7	177.7	210.0	242.3	263.9
10.8	82.5°	13.5	37.7	70.0	107.7	94.2	137.3	164.2	188.5	137.3
8.1	85°	10.8	26.9	35.0	64.6	53.9	96.9	83.5	80.8	53.9
5.4	87.5°	8.1	13.5	24.2	29.6	21.5	21.5	26.9	32.3	26.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
7905.4
7708.8
7762.7
7808.4
7875.7
8013.1
8244.6
8548.9
8882.8
9162.8
9310.9
9141.2
8971.6
8812.8
8645.8
8452.0
8241.9
8015.8
7768.0
7447.6
7022.2
6642.6
6265.6
5301.7
4254.2
3007.6
1550.9
923.5
718.9
587.0
438.9
339.3
266.6
99.6
53.9
26.9
0.0

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