

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: P638432

Luminaire Tested: **IFLD-S-SA6D-740-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638432
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-740-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (96) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33698.7 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

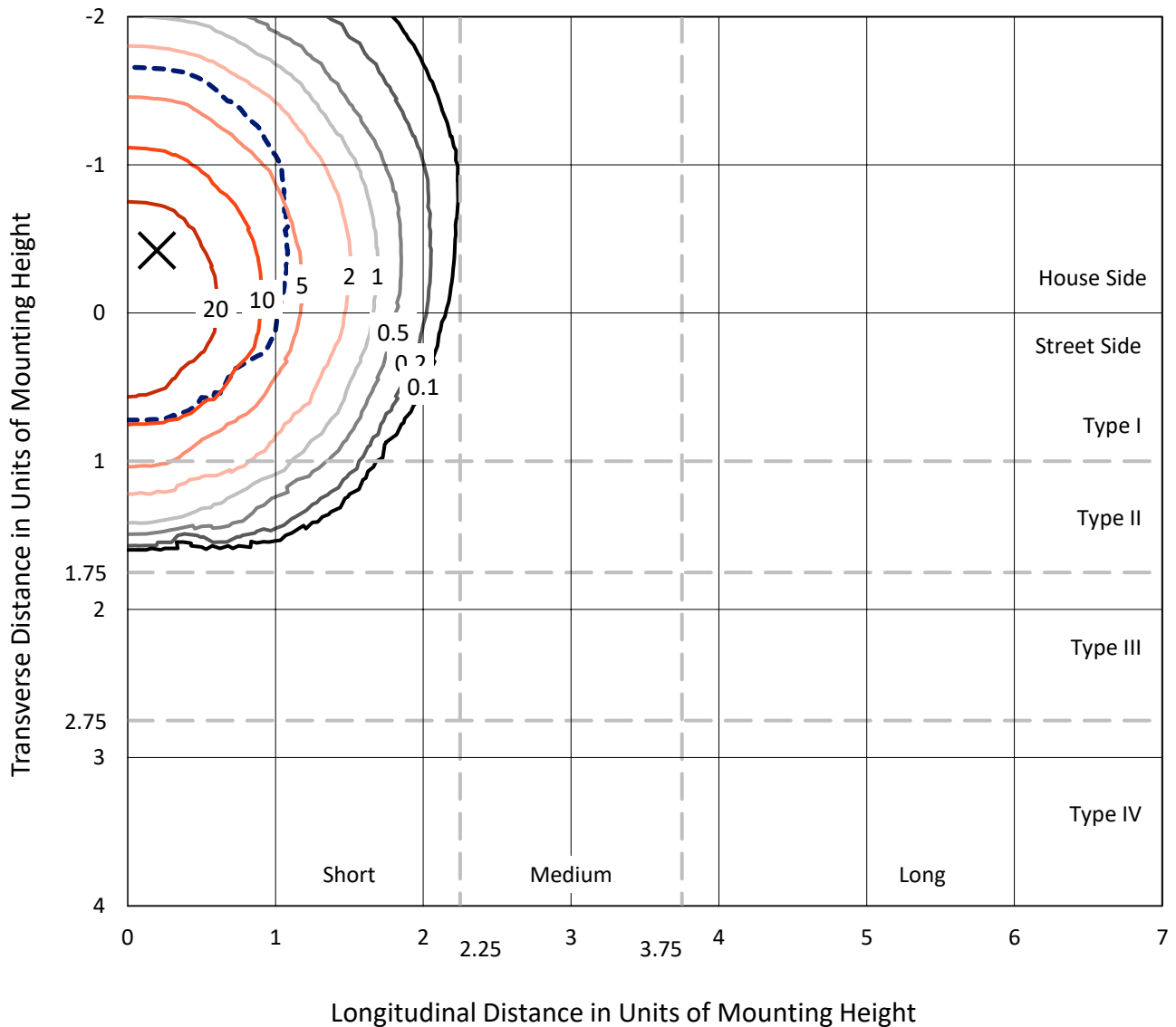
Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

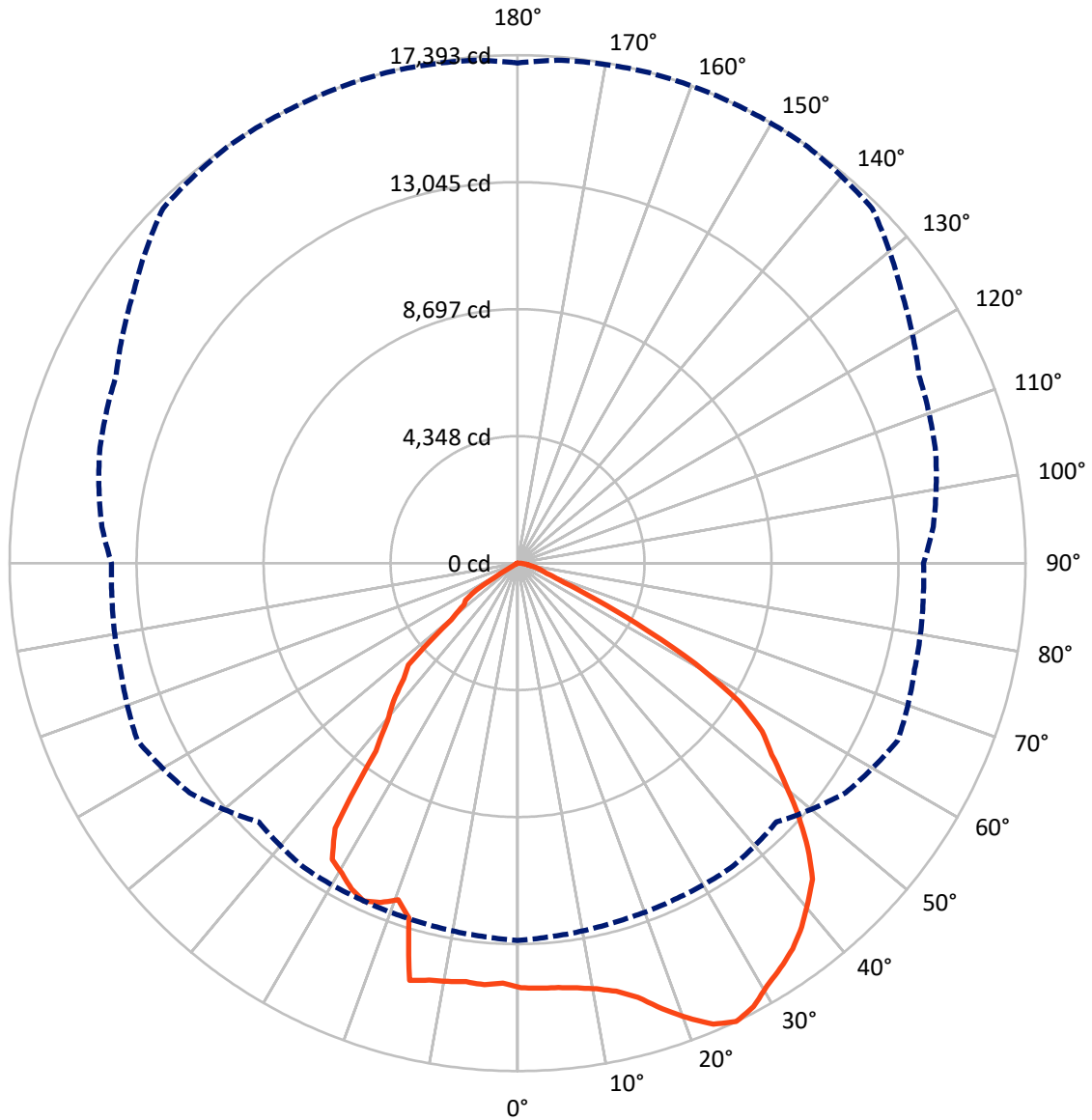
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 36.4 fc
 Type I - Short - N/A

REPORT NUMBER: P638432
CATALOG NUMBER: IFLD-S-SA6D-740-U-LAM-VI

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	20862.9	0.0	20862.9
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	12835.7	0.0	12835.7
	% Fixture	38.1	0.0	38.1
Total	Lumens	33698.7	0.0	33698.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1395.0	4.1
10°-20°	4259.4	12.6
20°-30°	6733.9	20.0
30°-40°	7606.5	22.6
40°-50°	7123.7	21.1
50°-60°	4911.3	14.6
60°-70°	1319.5	3.9
70°-80°	275.0	0.8
80°-90°	74.4	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°	33698.7	100.0
0°-180°	33698.7	100.0

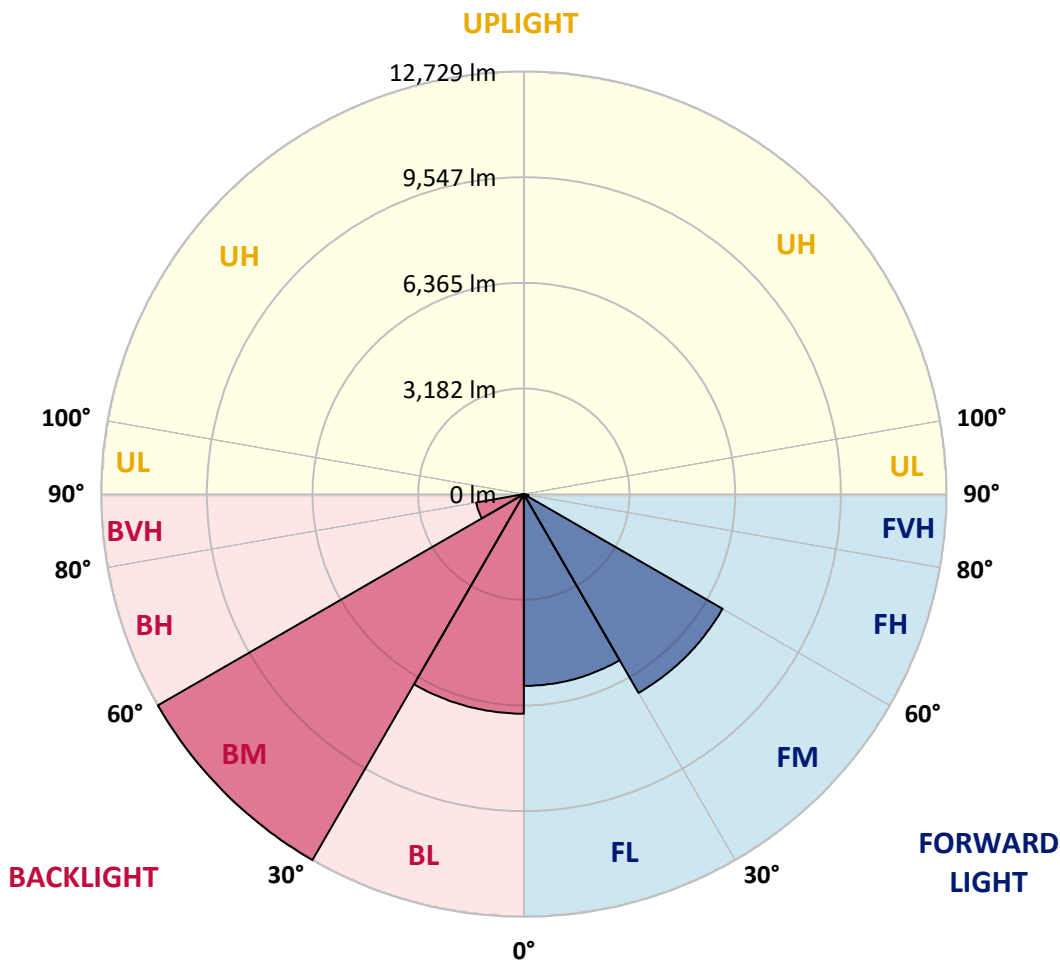


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5774.9	17.1			
FM (30°-60°)	6912.3	20.5			
FH (60°-80°)	138.5	0.4			G0/660
FVH (80°-90°)	10.0	0.0			G0/10
BL (0°-30°)	6613.4	19.6	B5		
BM (30°-60°)	12729.2	37.8	B5		
BH (60°-80°)	1455.9	4.3	B3/2500		G3/2500
BVH (80°-90°)	64.4	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-G3
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14540.4	14540.4	14540.4	14540.4	14540.4	14540.4	14540.4	14540.4	14540.4	14540.4
2.5°	14604.8	14510.7	14421.5	14391.8	14515.6	14649.3	14565.1	14570.1	14540.4	14594.9
5°	14713.7	14584.9	14525.5	14480.9	14500.8	14639.4	14520.6	14565.1	14515.6	14580.0
7.5°	14674.1	14584.9	14525.5	14441.3	14505.7	14669.1	14555.2	14560.2	14535.4	14594.9
10°	14649.3	14584.9	14510.7	14520.6	14594.9	14733.5	14644.4	14693.9	14659.2	14693.9
12.5°	14708.8	14639.4	14599.8	14599.8	14664.2	14822.7	14778.1	14822.7	14807.8	14837.5
15°	14149.1	14213.5	14589.9	14758.3	14887.0	15045.5	15025.7	15070.3	15080.2	15124.8
17.5°	11935.4	11871.0	11841.3	12708.0	15010.9	15501.1	15486.3	15481.3	15431.8	15397.1
20°	12227.6	12202.8	12168.2	12232.5	12490.1	15738.9	15837.9	15228.8	15050.5	15035.6
22.5°	12693.1	12653.5	12524.7	12529.7	12608.9	13683.6	15347.6	14792.9	14733.5	14698.9
25°	12920.9	12841.7	12737.7	12708.0	12732.7	12534.6	13708.4	14367.0	14074.8	13941.1
27.5°	12519.8	12524.7	12440.5	12519.8	12425.7	11534.2	11034.0	13535.0	13525.1	13465.7
30°	12217.7	12202.8	12103.8	12202.8	11554.1	10558.6	10345.7	12623.8	12519.8	12440.5
32.5°	11291.6	11301.5	11588.7	11975.0	10910.2	10122.8	9479.0	11276.7	12262.3	12217.7
35°	8077.4	8097.2	9117.4	11024.1	9934.6	9256.1	9206.6	9746.4	11856.2	11876.0
37.5°	7775.3	7775.3	7750.6	8062.6	9167.0	8904.5	9003.5	8949.1	10860.7	10910.2
40°	7557.4	7512.9	7478.2	6987.9	6373.8	8656.9	8726.2	8478.6	10266.4	10276.3
42.5°	7294.9	7245.4	7255.3	6349.0	5705.2	8042.8	7849.6	7517.8	9275.9	9285.8
45°	6814.6	6898.8	6958.2	5556.6	5507.1	5744.8	7240.5	7032.5	8607.3	8790.6
47.5°	3466.7	3541.0	5432.8	5110.9	5224.8	5106.0	6116.3	6121.2	7161.2	7770.4
50°	3144.8	3125.0	3129.9	2981.4	4823.7	4130.3	4422.5	5611.1	5734.9	6606.6
52.5°	2931.8	2926.9	2624.8	2332.6	3030.9	3635.1	3209.2	4061.0	4264.1	5596.3
55°	2169.2	2327.6	2070.1	2193.9	1896.8	2912.0	2897.2	3664.8	3734.1	4486.9
57.5°	19.8	24.8	59.4	1669.0	1312.4	1456.0	2000.8	2501.0	2624.8	3496.4
60°	5.0	9.9	24.8	49.5	851.8	896.4	1337.2	1446.1	1629.4	2085.0
62.5°	0.0	0.0	9.9	24.8	44.6	366.5	425.9	465.5	718.1	1064.8
65°	0.0	0.0	5.0	14.9	24.8	59.4	104.0	217.9	312.0	386.3
67.5°	0.0	0.0	5.0	9.9	19.8	29.7	59.4	84.2	133.7	227.8
70°	0.0	0.0	5.0	9.9	14.9	24.8	39.6	59.4	79.2	113.9
72.5°	0.0	0.0	5.0	9.9	9.9	29.7	29.7	44.6	59.4	74.3
75°	0.0	0.0	5.0	5.0	9.9	19.8	29.7	34.7	39.6	59.4
77.5°	0.0	0.0	5.0	9.9	14.9	19.8	24.8	39.6	34.7	34.7
80°	0.0	0.0	5.0	14.9	14.9	24.8	29.7	39.6	24.8	24.8
82.5°	0.0	0.0	5.0	19.8	14.9	49.5	49.5	54.5	19.8	19.8
85°	0.0	0.0	14.9	9.9	29.7	49.5	44.6	29.7	24.8	14.9
87.5°	0.0	0.0	5.0	5.0	9.9	14.9	34.7	29.7	9.9	9.9
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°
14540.4	0°	14540.4	14540.4	14540.4	14540.4	14540.4	14540.4	14540.4	14540.4	14540.4
14451.2	2.5°	14649.3	14584.9	14718.7	14703.8	14639.4	14609.7	14575.0	14545.3	14327.4
14461.1	5°	14654.3	14555.2	14718.7	14688.9	14679.0	14629.5	14599.8	14644.4	14446.3
14500.8	7.5°	14654.3	14555.2	14733.5	14743.4	14728.6	14688.9	14684.0	14713.7	14550.3
14570.1	10°	14753.3	14713.7	14862.3	14877.1	14857.3	14847.4	14822.7	14802.9	14629.5
14807.8	12.5°	14961.3	14882.1	15050.5	15095.0	15080.2	15105.0	15045.5	15075.2	14897.0
15050.5	15°	15213.9	15218.9	15347.6	15446.7	15436.8	15516.0	15426.9	15506.1	15377.3
15327.8	17.5°	15600.2	15654.7	15837.9	15986.5	16041.0	16100.4	16041.0	16065.7	15882.5
15020.8	20°	15194.1	15397.1	16278.7	16551.1	16665.0	16719.5	16620.4	16650.1	16466.9
14644.4	22.5°	14827.6	15090.1	15872.6	16724.4	17076.0	17185.0	17150.3	17145.4	17076.0
13901.5	25°	14287.8	14817.7	15169.3	16070.7	17175.1	17373.2	17393.0	17388.0	17284.0
13445.9	27.5°	13624.2	13743.0	14654.3	15204.0	16481.7	17234.5	17204.8	17061.2	16922.5
12500.0	30°	12777.3	13317.1	13728.2	14604.8	15585.3	16808.6	16808.6	16699.6	16556.0
12163.2	32.5°	12346.4	13044.7	13426.1	13743.0	14580.0	16333.2	16531.3	16417.4	16303.4
11900.7	35°	12118.6	12222.6	13114.1	13401.3	14109.5	15417.0	16219.3	16105.3	16021.2
11202.4	37.5°	11618.4	11861.1	12277.1	13044.7	13262.6	14669.1	15803.2	15743.8	15644.8
10296.1	40°	10504.1	11152.9	11791.8	12519.8	12747.6	13708.4	15298.1	15322.9	15189.1
9330.4	42.5°	9845.5	10286.2	11286.6	11776.9	12391.0	13089.3	14807.8	14847.4	14753.3
8840.1	45°	9072.9	9563.2	10266.4	11157.9	11994.8	12237.5	13941.1	14357.1	14277.9
7864.5	47.5°	8364.7	8760.9	9622.6	10523.9	11450.1	11415.4	12945.7	13728.2	13619.2
7116.7	50°	7359.3	8052.7	8458.8	9285.8	10667.6	10761.7	11885.9	12990.3	12901.1
6046.9	52.5°	6205.4	7077.0	7854.6	8612.3	9875.2	10098.0	10900.3	12237.5	12178.1
4620.6	55°	5422.9	6056.8	6933.4	7542.6	8914.4	9508.7	10162.4	11519.4	11489.7
3798.5	57.5°	3858.0	5081.2	5804.3	6656.1	7379.1	8453.8	8939.2	10058.4	9781.1
2104.8	60°	2614.9	3189.4	4070.9	4987.1	5472.5	6547.1	6997.8	7894.2	7819.9
1257.9	62.5°	1381.7	1911.6	2540.6	3001.2	3352.8	4397.8	4586.0	5551.7	5526.9
505.1	65°	609.2	807.2	1376.8	1614.5	1976.0	2461.4	2624.8	2971.5	2887.3
247.6	67.5°	317.0	480.4	777.5	955.8	1203.4	1386.7	1520.4	1629.4	1698.7
163.4	70°	193.1	351.6	480.4	663.6	827.1	975.6	1079.6	1228.2	1317.4
84.2	72.5°	143.6	222.9	331.8	510.1	599.2	772.6	876.6	985.5	1064.8
69.3	75°	79.2	148.6	267.4	401.1	480.4	629.0	723.1	797.3	822.1
39.6	77.5°	49.5	113.9	222.9	312.0	376.4	510.1	485.3	554.7	614.1
29.7	80°	34.7	84.2	173.3	257.5	262.5	326.9	386.3	445.7	485.3
19.8	82.5°	24.8	69.3	128.8	198.1	173.3	252.6	302.1	346.7	252.6
14.9	85°	19.8	49.5	64.4	118.9	99.0	178.3	153.5	148.6	99.0
9.9	87.5°	14.9	24.8	44.6	54.5	39.6	39.6	49.5	59.4	49.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



<u>180°</u>
14540.4
14178.8
14277.9
14362.1
14485.9
14738.5
15164.4
15724.0
16338.1
16853.2
<i>17125.6</i>
16813.5
16501.5
16209.3
15902.3
15545.7
15159.4
14743.4
14287.8
13698.5
12916.0
12217.7
11524.3
9751.4
7824.9
5531.9
2852.6
1698.7
1322.3
1079.6
807.2
624.0
490.3
183.2
99.0
49.5
0.0

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