

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: P848317

Luminaire Tested: **GLAN-SB4D-827-U-T3-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P848317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB4D-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25502 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

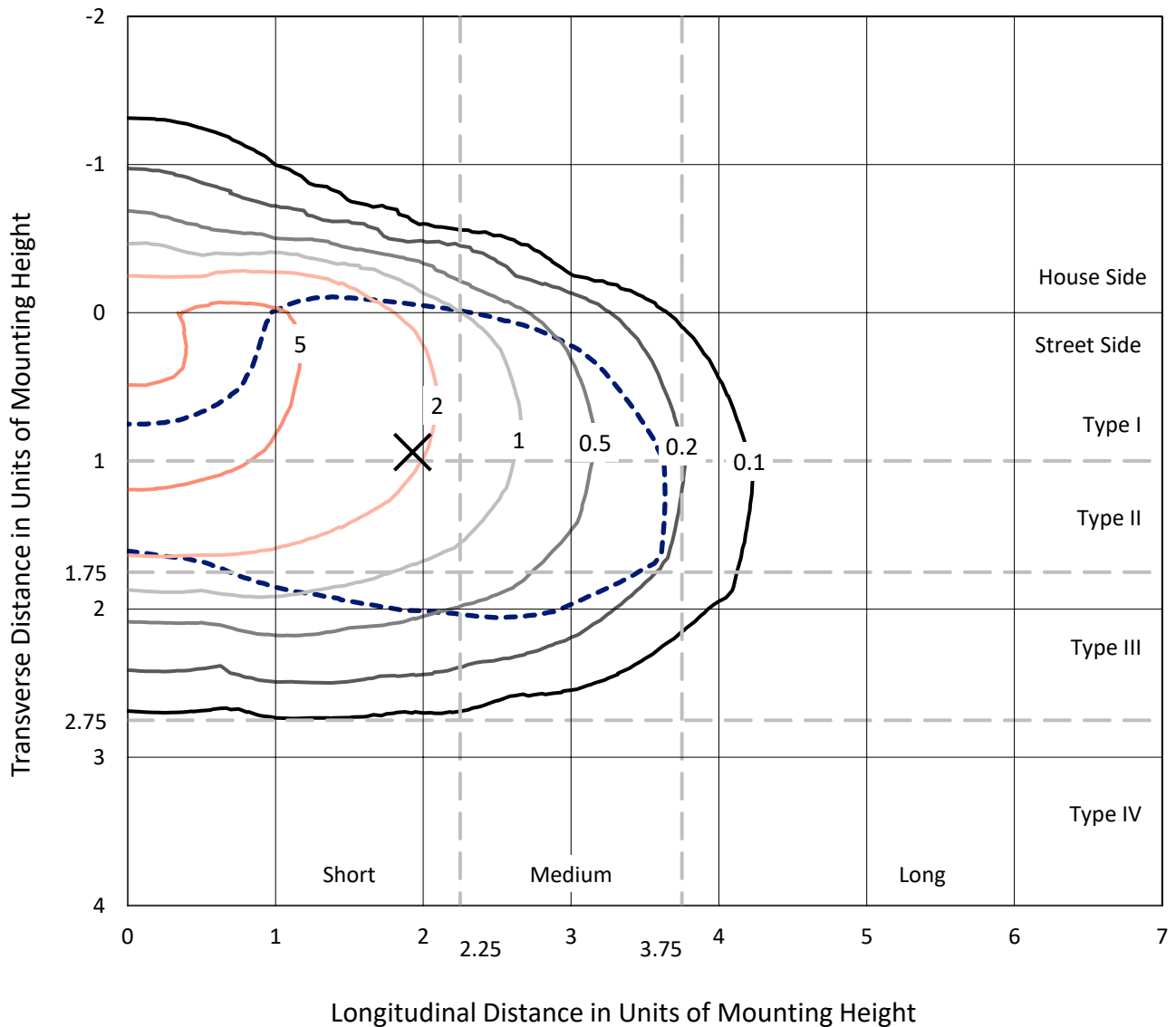
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

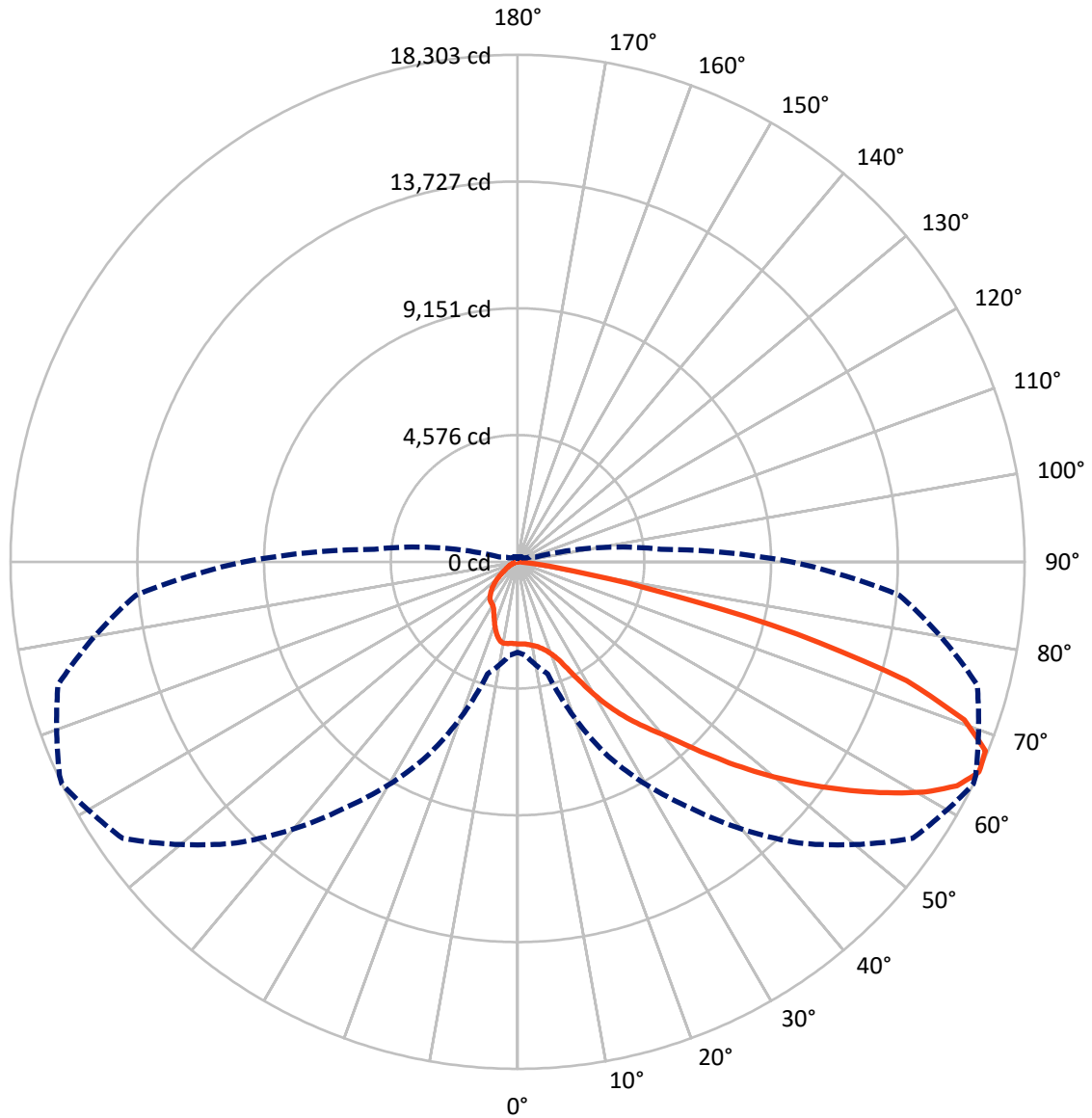
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3410.4	0.0	3410.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	22091.6	0.0	22091.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	25502.0	0.0	25502.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.7	1.1
10°-20°	742.2	2.9
20°-30°	1406.5	5.5
30°-40°	2846.0	11.2
40°-50°	4848.2	19.0
50°-60°	6593.2	25.9
60°-70°	6191.4	24.3
70°-80°	2480.5	9.7
80°-90°	120.2	0.5
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°	25502.0	100.0
0°-180°	25502.0	100.0

Coefficient of Utilization



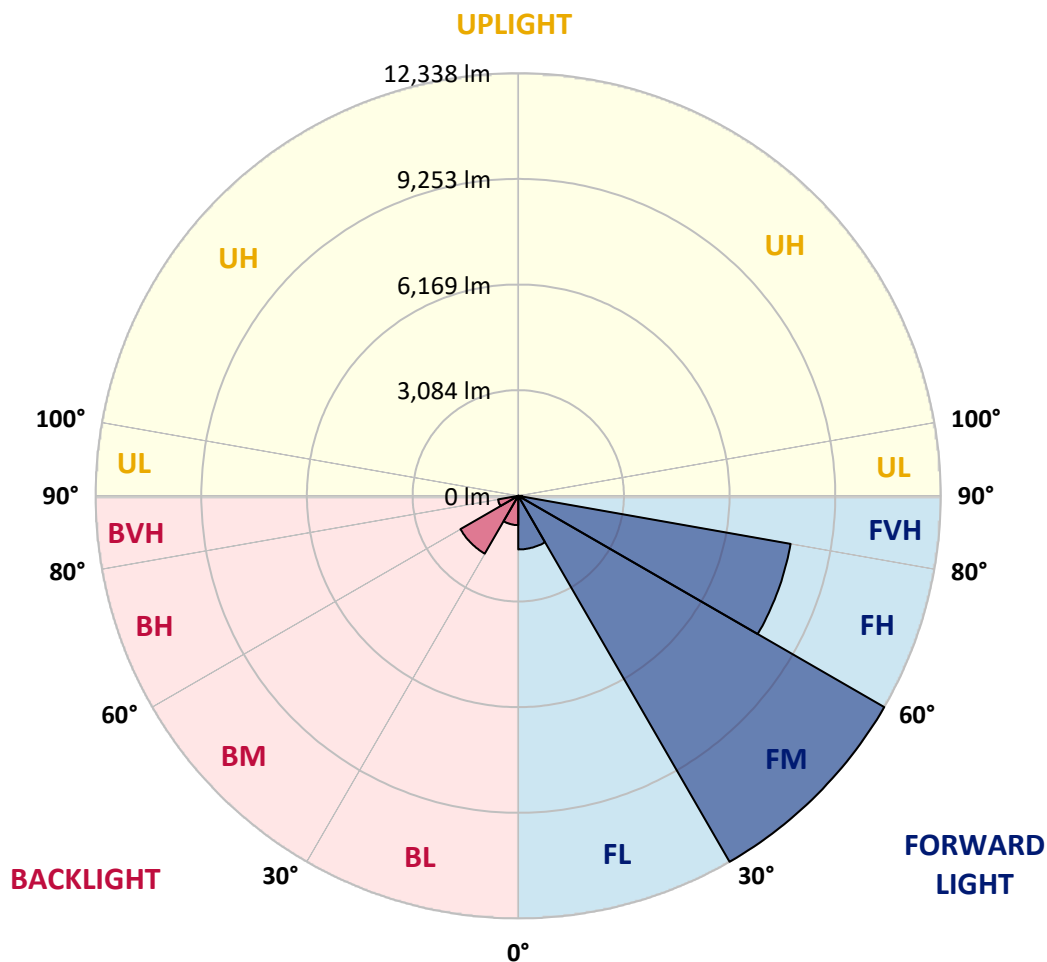
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1566.1	6.1			
FM (30°-60°)	12337.8	48.4			
FH (60°-80°)	8073.4	31.7			G4/12000
FVH (80°-90°)	114.3	0.4			G2/225
BL (0°-30°)	856.2	3.4	B2/1000		
BM (30°-60°)	1949.7	7.6	B2/2500		
BH (60°-80°)	598.6	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	2966.1	2966.1	2966.1	2966.1	2966.1	2966.1	2966.1	2966.1	2966.1	2966.1
2.5°	2955.9	2976.4	2971.3	2966.1	2964.4	2967.9	2969.6	2967.9	2967.9	2967.9
5°	2899.5	2916.6	2916.6	2928.5	2945.6	2966.1	2981.5	2985.0	2988.4	2993.5
7.5°	2791.8	2805.4	2815.7	2855.0	2897.8	2952.5	2998.6	3022.6	3026.0	3044.8
10°	2718.3	2735.4	2752.4	2793.5	2855.0	2937.1	3015.7	3073.9	3082.4	3126.8
12.5°	2714.8	2731.9	2754.2	2798.6	2870.4	2957.6	3053.3	3137.1	3152.5	3217.5
15°	2750.7	2771.3	2791.8	2846.5	2923.4	3029.4	3132.0	3236.3	3251.6	3344.0
17.5°	2824.3	2851.6	2867.0	2921.7	3003.8	3121.7	3256.8	3376.5	3390.1	3497.8
20°	2969.6	3002.0	3007.2	3051.6	3132.0	3258.5	3419.2	3567.9	3585.0	3708.1
22.5°	3270.5	3316.6	3275.6	3297.8	3369.6	3496.1	3670.5	3858.6	3882.5	4022.7
25°	3800.4	3865.4	3759.4	3721.8	3752.6	3884.2	4103.0	4340.7	4368.0	4480.8
27.5°	4841.6	4757.8	4597.1	4439.8	4347.5	4422.7	4668.9	4963.0	4997.1	5106.6
30°	5985.3	5911.8	5694.7	5345.9	5127.1	5115.1	5342.5	5670.7	5710.0	5814.3
32.5°	7130.7	7060.6	6824.7	6395.6	6016.1	5828.0	5985.3	6349.4	6370.0	6436.6
35°	8257.3	8185.5	7949.6	7510.3	7043.5	6616.1	6585.4	6995.7	7002.5	7072.6
37.5°	9390.8	9331.0	9079.7	8648.8	8189.0	7599.1	7313.6	7607.7	7616.2	7684.6
40°	10199.4	10225.1	10052.4	9719.0	9324.1	8679.6	8130.8	8259.1	8207.8	8322.3
42.5°	10893.5	10944.8	10794.4	10626.8	10397.8	9830.2	9142.9	9120.7	9038.6	9100.2
45°	11493.6	11536.3	11401.3	11362.0	11356.8	10958.5	10249.0	10115.7	10001.1	9989.2
47.5°	11714.1	11796.2	11854.3	11986.0	12242.4	12074.9	11392.7	11185.9	11057.7	10963.6
50°	11797.9	11885.1	12083.4	12466.4	13073.3	13145.1	12531.3	12298.8	12141.5	11970.6
52.5°	11685.1	11840.7	12107.4	12751.9	13632.3	14003.3	13623.8	13420.3	13240.8	12962.1
55°	11020.0	11175.6	11721.0	12748.5	13911.0	14605.1	14656.4	14565.7	14364.0	13924.7
57.5°	9618.2	9849.0	10712.3	12314.2	13905.8	15123.1	15668.4	15733.4	15507.7	14878.6
60°	7676.1	7988.9	9042.0	11351.7	13476.7	15403.5	16555.7	16880.5	16641.2	15818.9
62.5°	5356.2	5718.6	6715.3	9843.8	12495.4	15201.7	17203.7	17803.7	17622.5	16660.0
65°	3267.0	3383.3	4186.8	7746.2	10826.9	14357.2	17403.7	18302.9	18243.1	17174.6
67.5°	2176.3	2273.8	2504.6	5311.7	8404.4	12669.8	16925.0	18215.7	18232.8	17090.8
70°	1311.3	1395.0	1545.5	3089.2	5446.8	10028.5	15442.8	17104.5	17203.7	15971.0
72.5°	540.2	596.6	733.4	1400.2	2820.8	6364.8	12297.1	14685.4	14916.2	13428.9
75°	306.0	335.1	430.8	702.6	1224.1	2966.1	7448.7	10425.1	10765.3	9255.7
77.5°	203.4	217.1	278.7	454.8	689.0	1012.1	3183.3	5431.4	6081.0	5055.3
80°	136.8	148.7	191.5	304.3	447.9	434.2	1013.8	2012.2	2475.5	1736.9
82.5°	92.3	94.0	136.8	200.0	283.8	210.3	299.2	625.7	786.4	502.6
85°	53.0	51.3	100.9	116.3	126.5	87.2	90.6	188.1	246.2	212.0
87.5°	6.8	10.3	39.3	30.8	17.1	18.8	18.8	32.5	47.9	51.3
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2966.1	0°	2966.1	2966.1	2966.1	2966.1	2966.1	2966.1	2966.1	2966.1	2966.1	2966.1
2969.6	2.5°	2969.6	2967.9	2962.7	2957.6	2945.6	2938.8	2942.2	2938.8	2937.1	2938.8
2991.8	5°	2991.8	2986.7	2973.0	2955.9	2932.0	2902.9	2884.1	2856.7	2831.1	2815.7
3051.6	7.5°	3051.6	3046.5	3027.7	2979.8	2902.9	2781.5	2670.4	2572.9	2499.4	2456.7
3147.4	10°	3147.4	3138.8	3109.8	3003.8	2802.0	2537.0	2316.5	2133.6	2013.9	1957.5
3260.2	12.5°	3260.2	3249.9	3198.7	2981.5	2610.6	2196.8	1892.5	1689.1	1578.0	1528.4
3390.1	15°	3393.5	3379.9	3279.0	2875.5	2331.9	1820.7	1542.1	1389.9	1318.1	1273.6
3556.0	17.5°	3559.4	3535.4	3338.8	2716.5	2029.3	1533.5	1326.6	1212.1	1148.8	1106.1
3773.1	20°	3774.8	3735.5	3386.7	2526.8	1750.6	1352.3	1181.3	1085.6	1037.7	1000.1
4080.8	22.5°	4075.7	4019.3	3444.8	2321.6	1554.0	1227.5	1073.6	1003.5	964.2	921.5
4509.9	25°	4448.4	4381.7	3516.6	2131.9	1419.0	1119.8	995.0	936.9	890.7	841.1
5072.4	27.5°	4969.8	4850.1	3602.1	1976.3	1302.7	1027.5	923.2	858.2	805.2	764.2
5710.0	30°	5551.1	5354.5	3677.3	1882.3	1196.7	942.0	829.2	764.2	714.6	685.5
6282.8	32.5°	6101.5	5834.8	3726.9	1841.2	1101.0	844.5	726.6	656.5	618.9	610.3
6843.5	35°	6621.3	6269.1	3721.8	1801.9	1015.5	747.1	625.7	553.9	524.8	530.0
7447.0	37.5°	7219.6	6732.4	3685.9	1740.4	945.4	658.2	538.5	475.3	449.6	451.3
8180.4	40°	7915.4	7267.5	3663.7	1624.1	868.5	576.1	466.7	415.4	396.6	389.8
8953.1	42.5°	8657.4	7785.5	3667.1	1492.5	772.7	502.6	417.1	374.4	357.3	352.2
9813.1	45°	9402.8	8279.6	3672.2	1355.7	671.9	446.2	381.2	345.3	335.1	328.2
10685.0	47.5°	10103.7	8700.1	3576.5	1208.7	572.7	403.5	352.2	328.2	319.7	311.1
11560.3	50°	10756.8	8980.5	3345.7	1037.7	494.1	369.3	330.0	312.9	304.3	295.8
12353.5	52.5°	11264.5	9025.0	2964.4	861.6	439.4	343.6	316.3	300.9	290.6	282.1
12994.6	55°	11490.2	8746.3	2422.5	697.5	396.6	321.4	302.6	287.2	275.2	266.7
13499.0	57.5°	11432.1	8159.9	1889.1	560.7	355.6	299.2	285.5	275.2	261.6	247.9
13907.6	60°	11146.6	7375.2	1424.1	466.7	318.0	275.2	266.7	258.1	239.3	218.8
14064.8	62.5°	10652.5	6388.8	1015.5	386.4	277.0	247.9	244.5	237.6	210.3	172.7
13832.3	65°	9896.8	5190.3	683.8	321.4	237.6	217.1	218.8	206.9	171.0	128.2
12981.0	67.5°	8792.4	3795.3	437.7	263.3	198.3	181.2	182.9	176.1	145.3	109.4
11367.1	70°	7385.5	2513.1	285.5	200.0	159.0	140.2	150.4	152.2	123.1	88.9
8724.1	72.5°	5414.3	1483.9	200.0	148.7	116.3	97.4	123.1	126.5	99.2	66.7
5248.5	75°	3085.8	704.4	150.4	107.7	71.8	68.4	95.7	95.7	68.4	44.4
2272.1	77.5°	1295.9	294.1	106.0	70.1	41.0	39.3	65.0	59.8	34.2	20.5
553.9	80°	374.4	131.6	56.4	34.2	17.1	15.4	25.6	18.8	8.5	3.4
210.3	82.5°	147.0	58.1	22.2	13.7	6.8	6.8	3.4	0.0	0.0	0.0
119.7	85°	87.2	23.9	10.3	5.1	1.7	0.0	0.0	0.0	0.0	0.0
25.6	87.5°	22.2	5.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

180°
2966.1
2945.6
2819.1
2458.4
1952.4
1523.2
1275.4
1102.7
993.3
914.6
836.0
755.6
680.4
615.5
530.0
458.2
388.1
350.5
328.2
311.1
295.8
280.4
265.0
246.2
215.4
169.2
124.8
104.3
85.5
63.3
41.0
20.5
3.4
0.0
0.0
0.0
0.0

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