

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: P850388

Luminaire Tested: **GLAN-SB7D-840-U-T3**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P850388
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB7D-840-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64402 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

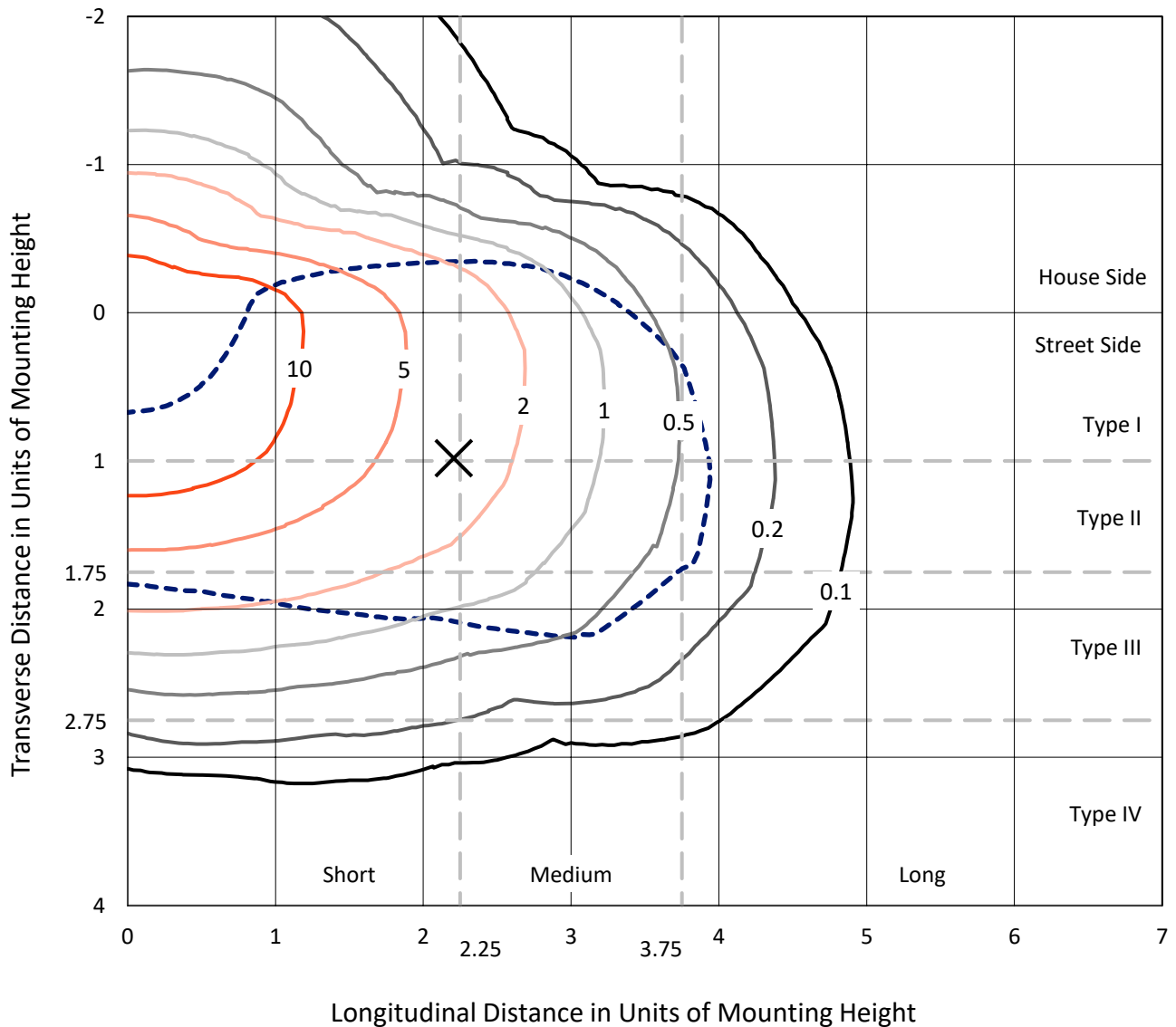
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

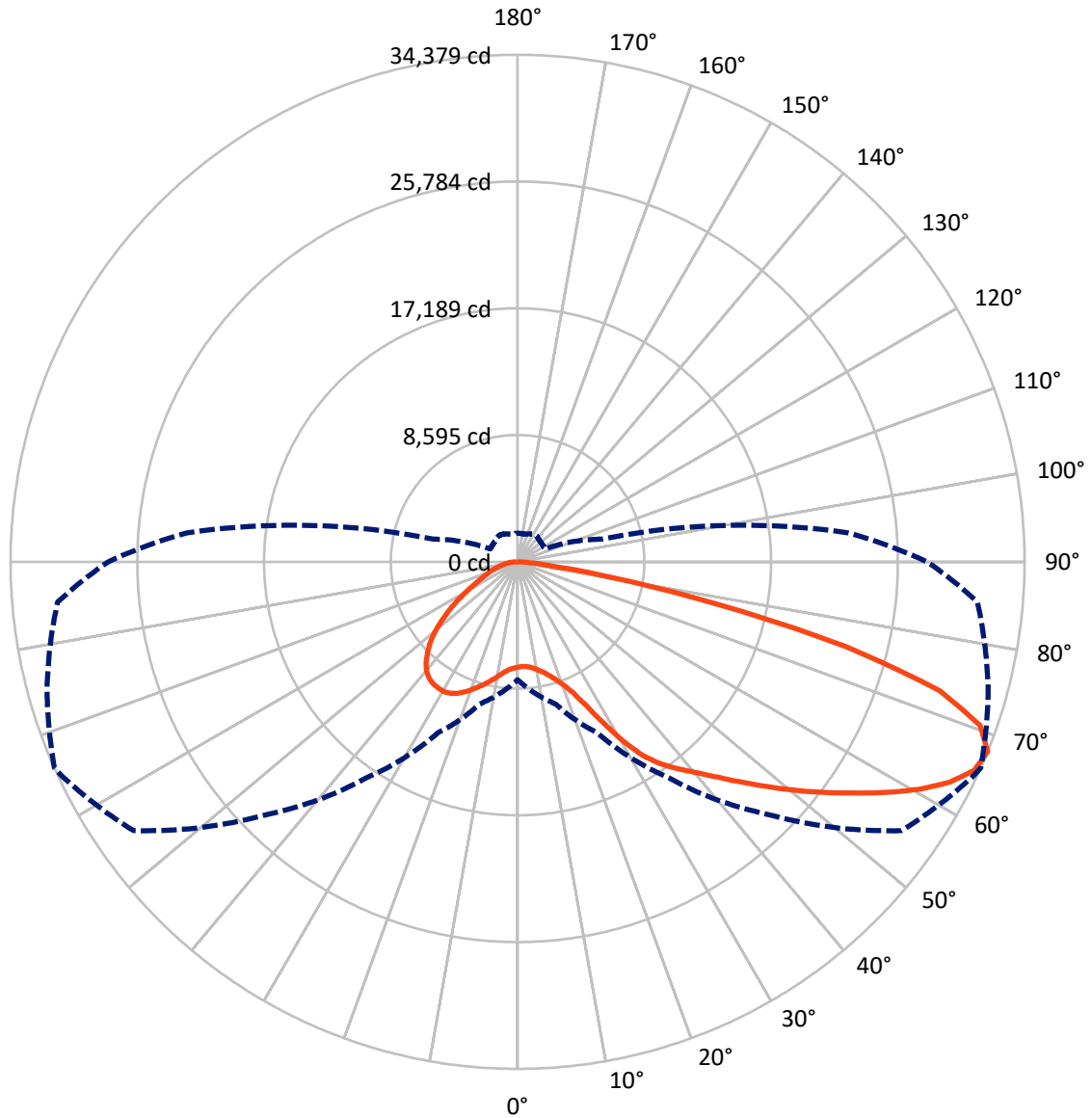
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16013.4	0.0	16013.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	48388.6	0.0	48388.6
	% Fixture	75.1	0.0	75.1
Total	Lumens	64402.0	0.0	64402.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	708.2	1.1
10°-20°	2339.8	3.6
20°-30°	4509.9	7.0
30°-40°	7907.4	12.3
40°-50°	11755.8	18.3
50°-60°	14901.6	23.1
60°-70°	14580.8	22.6
70°-80°	6955.2	10.8
80°-90°	743.3	1.2
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°	64402.0	100.0
0°-180°	64402.0	100.0

Coefficient of Utilization



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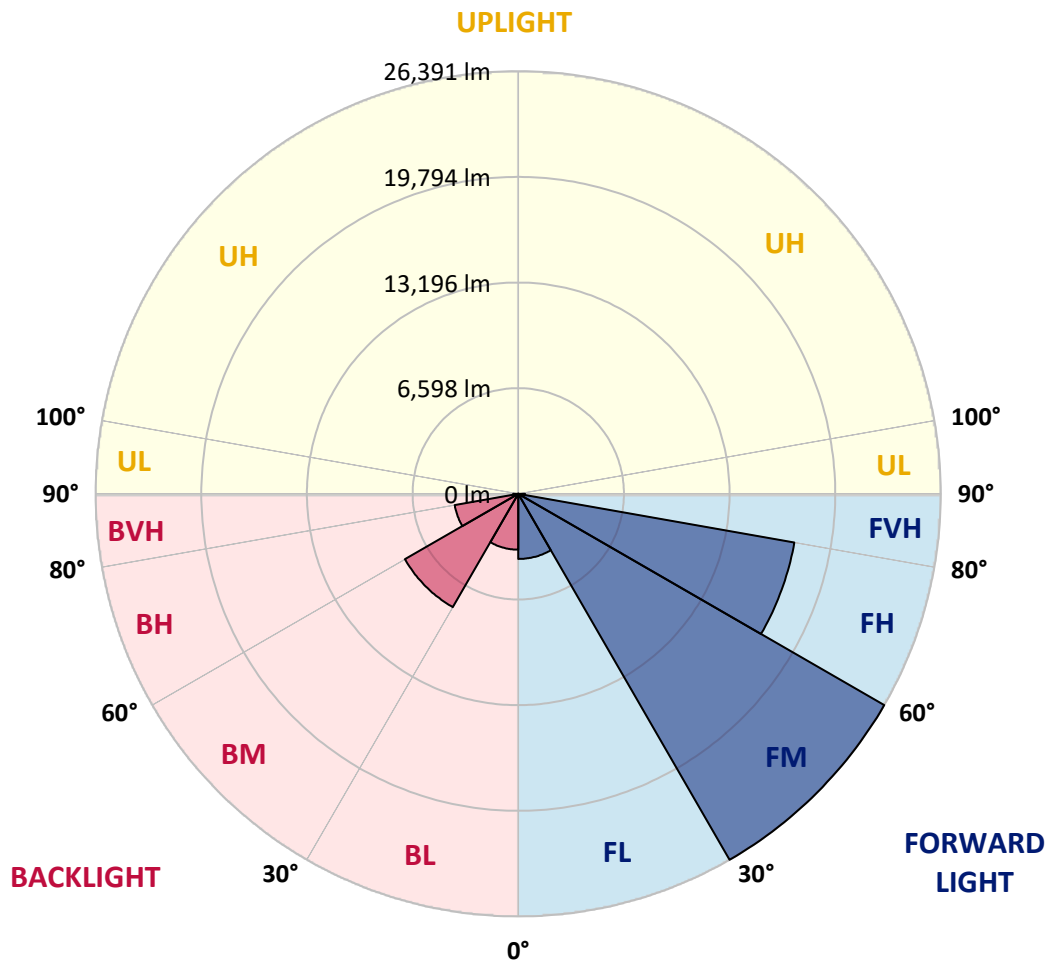
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4069.6	6.3			
FM (30°-60°)	26391.4	41.0			
FH (60°-80°)	17506.2	27.2			G5
FVH (80°-90°)	421.4	0.7			G3/500
BL (0°-30°)	3488.3	5.4	B4/5000		
BM (30°-60°)	8173.4	12.7	B4/8500		
BH (60°-80°)	4029.8	6.3	B4/5000		G4/5000
BVH (80°-90°)	321.9	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	7143.0	7143.0	7143.0	7143.0	7143.0	7143.0	7143.0	7143.0	7143.0	7143.0
2.5°	7068.6	7109.2	7099.0	7082.1	7078.7	7085.5	7095.7	7105.8	7102.4	7119.3
5°	7048.3	7088.9	7085.5	7085.5	7099.0	7126.1	7143.0	7160.0	7143.0	7163.3
7.5°	7061.8	7092.3	7105.8	7119.3	7153.2	7203.9	7244.5	7281.8	7261.5	7285.1
10°	7234.4	7258.1	7271.6	7271.6	7295.3	7352.8	7393.4	7461.1	7444.2	7481.4
12.5°	7549.1	7572.8	7572.8	7559.2	7576.1	7613.4	7626.9	7701.3	7670.9	7731.8
15°	7934.8	7982.2	7945.0	7921.3	7928.1	7965.3	7961.9	8019.4	7989.0	8039.7
17.5°	8361.2	8422.1	8361.2	8357.8	8344.3	8384.9	8388.2	8439.0	8384.9	8422.1
20°	8865.3	8949.9	8899.2	8916.1	8885.6	8902.6	8919.5	8993.9	8909.3	8936.4
22.5°	9575.9	9677.4	9623.3	9687.6	9667.3	9653.8	9650.4	9782.3	9650.4	9660.5
25°	10611.3	10733.2	10638.4	10726.4	10726.4	10770.4	10821.1	10990.3	10770.4	10706.1
27.5°	12140.8	12262.6	12076.5	12130.6	12113.7	12222.0	12167.9	12587.4	12350.6	12245.7
30°	13981.5	14198.1	13846.2	13832.6	13815.7	13988.3	14066.1	14343.6	14103.3	13998.4
32.5°	15971.2	16197.9	15778.3	15656.5	15592.2	15697.1	15632.8	15856.1	15690.3	15527.9
35°	18075.8	18299.2	17899.9	17663.0	17405.9	17185.9	16955.8	17013.3	16857.7	16610.7
37.5°	20065.5	20474.9	20051.9	19798.1	19324.4	18894.7	18251.8	17984.5	17839.0	17612.3
40°	22092.3	22325.8	22004.3	21787.8	21273.4	20600.1	19571.4	19006.4	18810.1	18590.2
42.5°	23584.5	23807.9	23635.3	23486.4	23083.7	22302.1	20972.3	20265.1	19980.9	19733.9
45°	24768.8	24934.6	24826.4	24880.5	24707.9	23950.0	22423.9	21615.2	21320.8	21019.7
47.5°	25245.9	25421.9	25594.5	25915.9	26210.3	25652.0	23983.8	23077.0	22765.7	22457.7
50°	25191.8	25371.1	25871.9	26555.4	27469.0	27282.9	25628.3	24633.5	24345.9	23994.0
52.5°	24758.7	24961.7	25604.6	26741.5	28196.5	28504.5	27303.2	26240.7	25970.1	25550.5
55°	23621.7	23743.6	24707.9	26318.6	28369.1	29357.2	28944.3	27952.9	27682.2	27096.8
57.5°	21513.7	21689.6	23093.9	25178.3	27936.0	29935.8	30385.8	29753.0	29492.5	28650.0
60°	18762.7	19043.6	20650.8	23263.1	26832.9	29932.4	31695.3	31522.7	31306.2	30179.4
62.5°	15649.7	15974.5	17520.9	20556.1	24904.2	29083.1	32514.2	33004.8	32893.1	31590.4
65°	12019.0	12242.3	13781.9	17053.9	21902.8	27259.2	32608.9	34016.5	34036.8	32663.0
67.5°	8002.5	8645.4	9982.0	12797.2	17883.0	24278.2	31776.5	34182.3	34378.6	33031.9
70°	3904.8	4750.7	6060.2	8317.2	12797.2	19706.8	29600.8	32822.1	33258.6	31955.9
72.5°	1620.8	1894.9	2608.8	4104.5	7346.1	13298.0	25229.0	29133.8	29942.5	28315.0
75°	1092.9	1184.3	1492.2	2104.7	3346.5	6557.6	18194.3	21723.5	23026.2	21385.1
77.5°	842.5	900.1	1086.2	1471.9	1989.6	2480.3	9738.3	13091.6	13765.0	12743.1
80°	663.2	707.2	812.1	1072.6	1411.0	1326.4	3319.4	5931.7	6320.8	5302.3
82.5°	575.2	592.2	582.0	727.5	937.3	774.9	1089.6	2189.3	2416.0	1752.8
85°	416.2	463.6	483.9	450.0	497.4	392.5	446.7	774.9	852.7	761.3
87.5°	169.2	250.4	307.9	291.0	182.7	111.7	138.7	226.7	260.5	284.2
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°
7143.0	0°	7143.0	7143.0	7143.0	7143.0	7143.0	7143.0	7143.0	7143.0	7143.0	7143.0
7146.4	2.5°	7149.8	7173.5	7190.4	7210.7	7224.2	7244.5	7285.1	7308.8	7312.2	7329.1
7200.6	5°	7214.1	7247.9	7285.1	7339.3	7400.2	7451.0	7528.8	7582.9	7603.2	7620.1
7332.5	7.5°	7352.8	7400.2	7467.9	7562.6	7650.6	7718.3	7813.0	7877.3	7941.6	7965.3
7542.3	10°	7559.2	7626.9	7725.0	7853.6	7948.4	8036.3	8134.5	8188.6	8252.9	8280.0
7792.7	12.5°	7816.4	7887.5	8016.0	8195.4	8283.3	8344.3	8378.1	8364.6	8378.1	8401.8
8093.9	15°	8110.8	8188.6	8334.1	8527.0	8587.9	8533.7	8459.3	8391.6	8381.5	8388.2
8459.3	17.5°	8459.3	8516.8	8686.0	8848.4	8804.4	8581.1	8418.7	8310.4	8256.3	8239.4
8926.3	20°	8946.6	8946.6	9085.3	9186.8	8892.4	8513.4	8259.7	8083.7	7972.0	7924.7
9562.4	22.5°	9538.7	9484.6	9572.5	9501.5	8875.5	8324.0	7972.0	7667.5	7498.3	7430.6
10452.3	25°	10289.9	10225.6	10201.9	9762.0	8753.7	8022.8	7451.0	7082.1	6933.2	6896.0
11734.7	27.5°	11423.4	11261.0	10953.1	9904.1	8530.4	7549.1	6841.9	6500.1	6415.5	6418.9
13382.6	30°	12932.6	12607.7	11853.2	9927.8	8164.9	6879.1	6219.3	5975.6	5935.0	5952.0
14766.6	32.5°	14330.1	14022.1	12773.5	9819.6	7603.2	6222.7	5661.0	5498.5	5437.6	5457.9
15822.3	35°	15426.4	15341.8	13626.2	9667.3	6912.9	5606.8	5160.2	5021.4	4903.0	4875.9
16817.1	37.5°	16461.8	16428.0	14265.8	9454.1	6229.4	5170.3	4757.5	4574.8	4402.2	4307.5
17916.8	40°	17598.7	17564.9	14685.3	9125.9	5623.7	4791.3	4395.5	4155.2	3942.0	3769.5
19162.0	42.5°	18877.8	18678.1	14885.0	8655.6	5109.4	4469.9	4101.1	3776.2	3495.4	3336.3
20569.6	45°	20275.3	19825.2	14881.6	8056.6	4676.3	4175.5	3786.4	3326.2	3065.7	2916.8
22014.5	47.5°	21757.3	20921.5	14698.9	7393.4	4256.7	3850.7	3299.1	2947.2	2774.7	2683.3
23584.5	50°	23286.8	21946.8	14387.6	6632.1	3827.0	3481.8	2994.6	2754.3	2622.4	2537.8
25141.0	52.5°	24724.8	22877.3	14012.0	5769.2	3390.5	3123.2	2859.2	2673.1	2534.4	2439.7
26650.2	55°	26061.4	23679.3	13480.7	4886.1	3035.2	2882.9	2795.0	2639.3	2480.3	2368.6
28183.0	57.5°	27249.1	24200.4	12563.8	4057.1	2781.4	2717.1	2727.3	2581.8	2399.1	2304.3
29692.1	60°	28237.1	24582.7	11206.9	3289.0	2575.0	2554.7	2622.4	2473.5	2260.3	2152.0
30967.8	62.5°	28829.3	24576.0	9542.1	2693.4	2399.1	2405.8	2483.7	2338.2	2121.6	2020.1
31634.4	65°	28778.5	23973.7	7714.9	2304.3	2229.9	2236.6	2338.2	2189.3	2006.5	1945.6
31299.4	67.5°	27760.0	22505.1	5918.1	2050.5	2043.8	2074.2	2192.7	2087.8	1935.5	1928.7
29303.0	70°	25002.3	19456.4	4263.5	1847.5	1850.9	1894.9	2050.5	2023.5	1898.3	1911.8
24636.9	72.5°	20048.5	14834.2	2862.6	1634.3	1637.7	1708.8	1915.2	1972.7	1861.0	2040.4
17480.3	75°	13352.2	9251.1	1840.7	1407.6	1411.0	1502.4	1796.8	1874.6	1759.5	2033.6
9095.4	77.5°	6415.5	4158.6	1333.2	1184.3	1184.3	1268.9	1553.1	1678.3	1499.0	1580.2
2923.5	80°	2216.3	1563.3	1049.0	954.2	933.9	991.4	1309.5	1455.0	1292.6	1191.1
954.2	82.5°	873.0	812.1	842.5	741.0	673.4	710.6	1018.5	1201.2	950.8	859.5
538.0	85°	500.8	527.9	595.5	490.6	389.1	436.5	747.8	862.8	717.3	632.8
176.0	87.5°	135.3	186.1	274.1	253.8	176.0	186.1	355.3	477.1	412.8	318.1
0.0	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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180°
7143.0
7325.8
7616.8
7968.7
8293.5
8408.5
8411.9
8263.0
7914.5
7420.5
6902.8
6429.1
6009.5
5485.0
4896.2
4310.9
3786.4
3346.5
2910.0
2663.0
2507.3
2399.1
2324.6
2243.4
2104.7
1989.6
1942.3
1938.9
1908.4
2067.5
2050.5
1448.2
1116.6
856.1
646.3
328.2
0.0

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