

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: P850297

Luminaire Tested: **GLAN-SB7D-727-U-T3-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P850297
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-SB7D-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 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: 50474 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

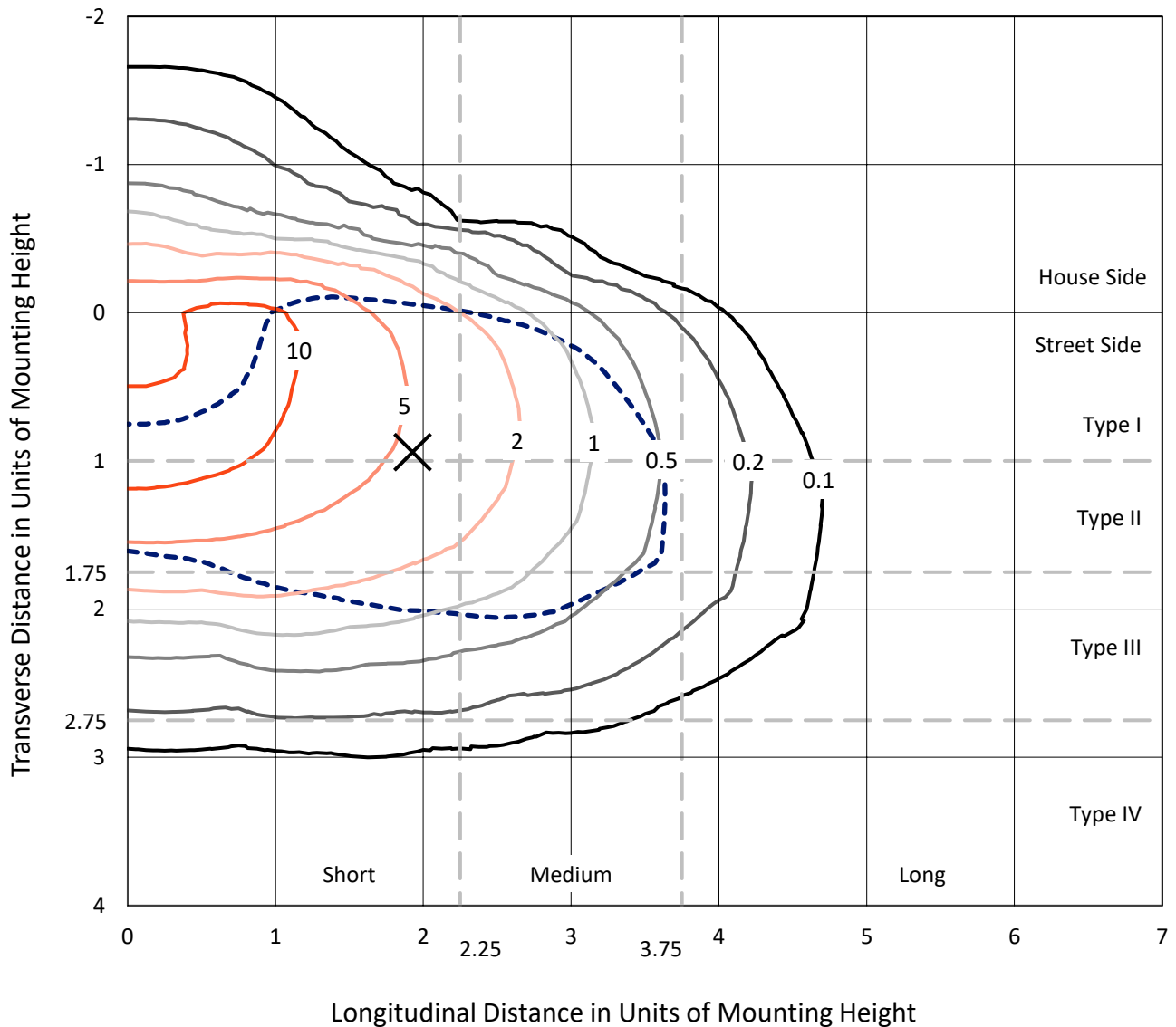
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

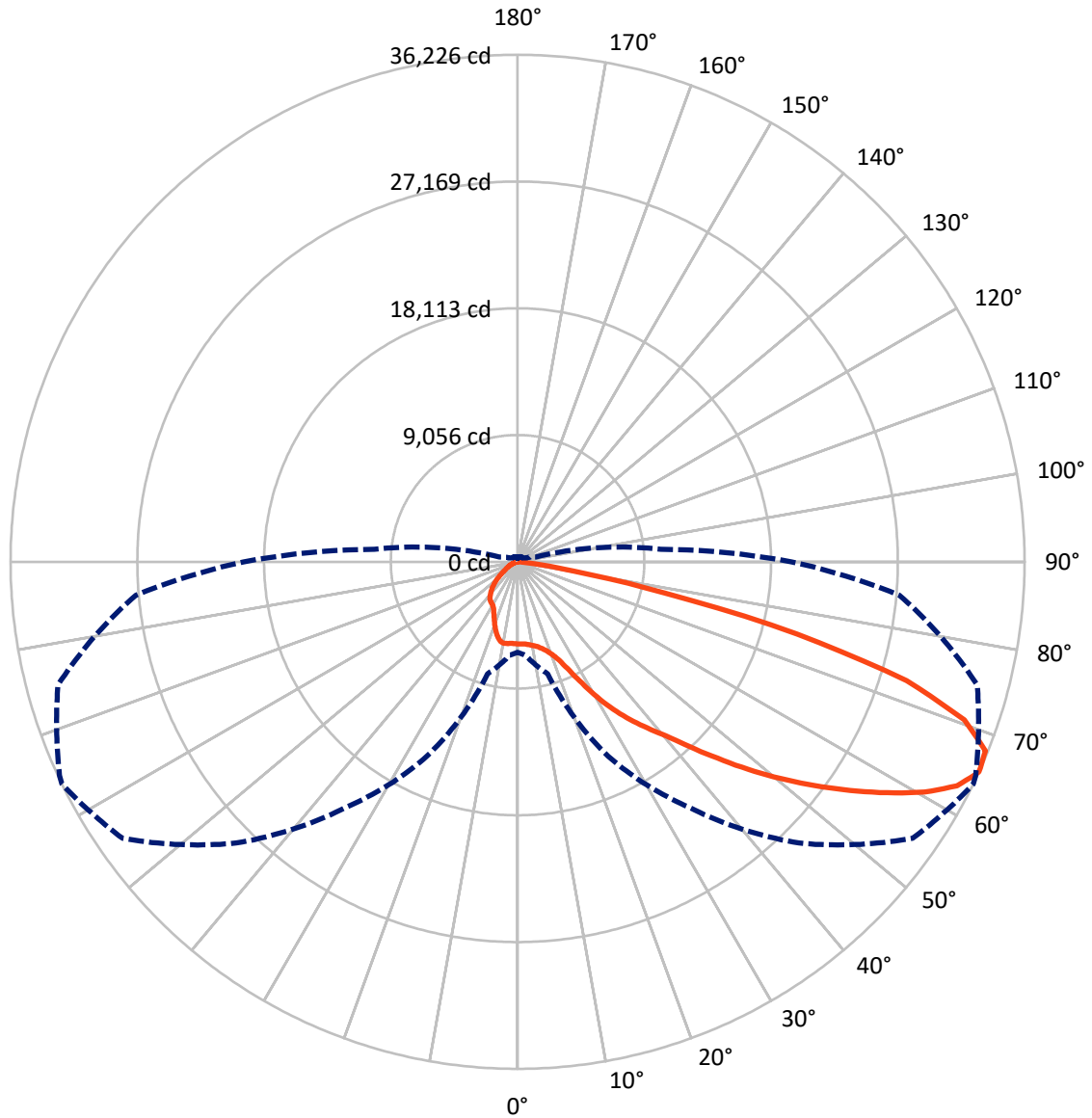
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 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	6749.9	0.0	6749.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	43724.1	0.0	43724.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	50474.0	0.0	50474.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.6	1.1
10°-20°	1469.0	2.9
20°-30°	2783.7	5.5
30°-40°	5632.9	11.2
40°-50°	9595.7	19.0
50°-60°	13049.5	25.9
60°-70°	12254.1	24.3
70°-80°	4909.5	9.7
80°-90°	237.8	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°	50474.0	100.0
0°-180°	50474.0	100.0

Coefficient of Utilization



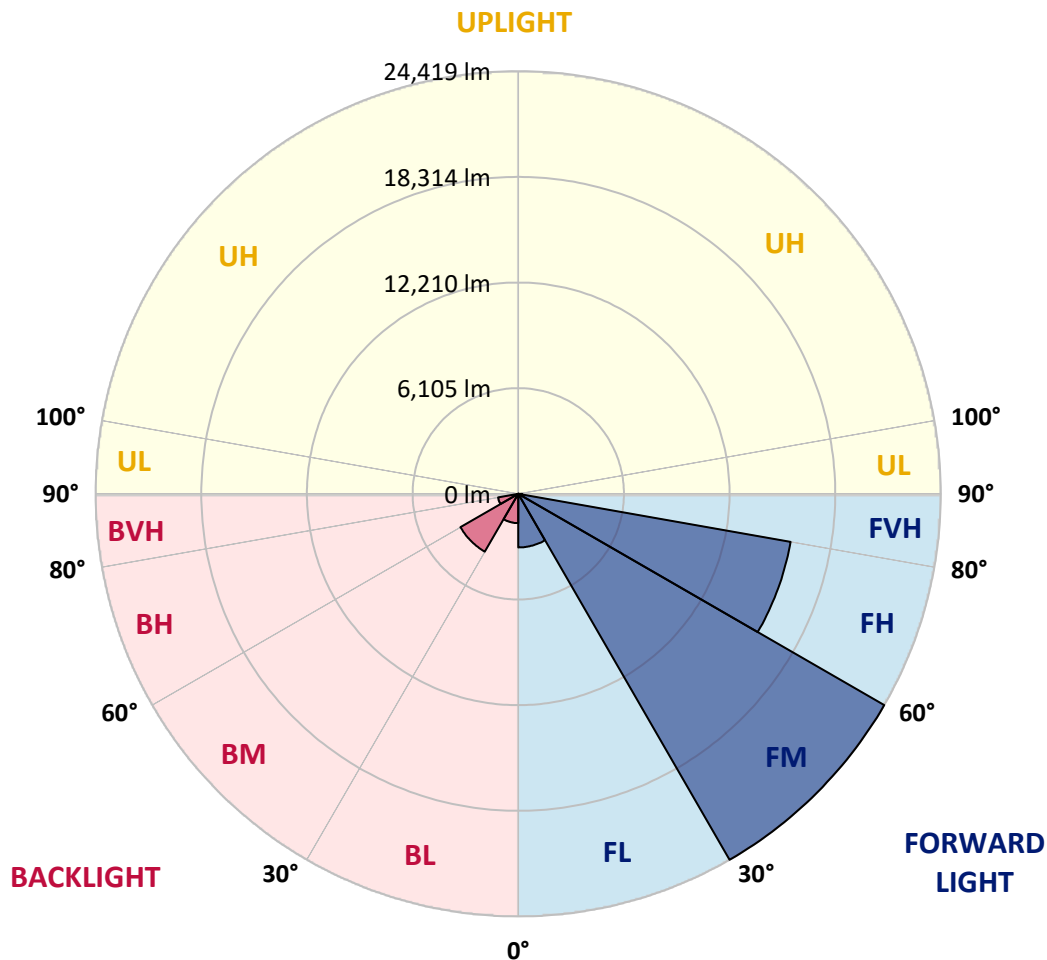
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3099.7	6.1			
FM (30°-60°)	24419.3	48.4			
FH (60°-80°)	15978.9	31.7			G5
FVH (80°-90°)	226.2	0.4			G3/500
BL (0°-30°)	1694.7	3.4	B3/2500		
BM (30°-60°)	3858.9	7.6	B3/5000		
BH (60°-80°)	1184.7	2.3	B3/2500		G3/2500
BVH (80°-90°)	11.6	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	5870.7	5870.7	5870.7	5870.7	5870.7	5870.7	5870.7	5870.7	5870.7	5870.7
2.5°	5850.3	5891.0	5880.8	5870.7	5867.3	5874.0	5877.4	5874.0	5874.0	5874.0
5°	5738.7	5772.5	5772.5	5796.2	5830.0	5870.7	5901.1	5907.9	5914.6	5924.8
7.5°	5525.5	5552.6	5572.9	5650.7	5735.3	5843.6	5934.9	5982.3	5989.1	6026.3
10°	5380.0	5413.9	5447.7	5528.9	5650.7	5813.1	5968.8	6083.8	6100.7	6188.7
12.5°	5373.3	5407.1	5451.1	5539.1	5681.2	5853.7	6043.2	6209.0	6239.5	6368.0
15°	5444.3	5484.9	5525.5	5633.8	5786.1	5995.8	6198.9	6405.3	6435.7	6618.4
17.5°	5589.8	5643.9	5674.4	5782.7	5945.1	6178.6	6445.9	6682.7	6709.8	6923.0
20°	5877.4	5941.7	5951.9	6039.8	6198.9	6449.3	6767.3	7061.7	7095.5	7339.2
22.5°	6472.9	6564.3	6483.1	6527.1	6669.2	6919.6	7264.7	7636.9	7684.3	7961.8
25°	7521.9	7650.5	7440.7	7366.2	7427.1	7687.7	8120.8	8591.1	8645.3	8868.6
27.5°	9582.5	9416.7	9098.7	8787.4	8604.6	8753.5	9240.8	9822.8	9890.4	10107.0
30°	11846.2	11700.7	11271.0	10580.7	10147.6	10123.9	10573.9	11223.6	11301.4	11507.8
32.5°	14113.2	13974.5	13507.6	12658.3	11907.1	11534.9	11846.2	12566.9	12607.5	12739.5
35°	16343.1	16201.0	15734.0	14864.4	13940.7	13094.8	13033.9	13845.9	13859.5	13998.2
37.5°	18586.4	18468.0	17970.6	17117.9	16207.7	15040.4	14475.3	15057.3	15074.2	15209.6
40°	20186.9	20237.7	19895.9	19236.1	18454.5	17178.8	16092.7	16346.5	16245.0	16471.7
42.5°	21560.7	21662.2	21364.4	21032.8	20579.4	19456.0	18095.8	18051.8	17889.4	18011.2
45°	22748.3	22832.9	22565.6	22487.8	22477.7	21689.3	20285.0	20021.1	19794.4	19770.7
47.5°	23184.8	23347.3	23462.3	23722.8	24230.4	23898.8	22548.7	22139.3	21885.5	21699.4
50°	23350.6	23523.2	23915.7	24673.6	25874.8	26017.0	24802.2	24342.1	24030.8	23692.4
52.5°	23127.3	23435.2	23963.1	25238.7	26981.3	27715.6	26964.4	26561.7	26206.4	25654.9
55°	21811.1	22119.0	23198.4	25232.0	27532.8	28906.6	29008.1	28828.8	28429.5	27559.9
57.5°	19036.5	19493.3	21202.0	24372.5	27522.7	29931.9	31011.2	31139.8	30693.2	29448.0
60°	15192.6	15811.8	17896.2	22467.5	26673.4	30486.8	32767.4	33410.3	32936.5	31309.0
62.5°	10601.0	11318.3	13291.0	19483.1	24731.2	30087.5	34049.8	35237.4	34878.8	32973.8
65°	6466.2	6696.3	8286.6	15331.4	21428.7	28416.0	34445.7	36225.5	36107.0	33992.2
67.5°	4307.4	4500.3	4957.1	10513.0	16634.1	25076.3	33498.2	36052.9	36086.7	33826.5
70°	2595.3	2761.1	3058.8	6114.3	10780.3	19848.6	30564.6	33853.5	34049.8	31610.2
72.5°	1069.2	1180.9	1451.6	2771.2	5583.0	12597.4	24338.7	29065.6	29522.4	26578.7
75°	605.7	663.2	852.7	1390.7	2422.7	5870.7	14742.6	20633.6	21306.9	18319.1
77.5°	402.7	429.7	551.5	900.1	1363.6	2003.1	6300.4	10749.9	12035.7	10005.5
80°	270.7	294.4	379.0	602.3	886.5	859.4	2006.5	3982.6	4899.5	3437.8
82.5°	182.7	186.1	270.7	395.9	561.7	416.2	592.1	1238.4	1556.5	994.8
85°	104.9	101.5	199.6	230.1	250.4	172.6	179.3	372.2	487.2	419.6
87.5°	13.5	20.3	77.8	60.9	33.8	37.2	37.2	64.3	94.7	101.5
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°
5870.7	0°	5870.7	5870.7	5870.7	5870.7	5870.7	5870.7	5870.7	5870.7	5870.7	5870.7
5877.4	2.5°	5877.4	5874.0	5863.9	5853.7	5830.0	5816.5	5823.3	5816.5	5813.1	5816.5
5921.4	5°	5921.4	5911.3	5884.2	5850.3	5803.0	5745.5	5708.2	5654.1	5603.3	5572.9
6039.8	7.5°	6039.8	6029.7	5992.5	5897.7	5745.5	5505.2	5285.3	5092.4	4946.9	4862.3
6229.3	10°	6229.3	6212.4	6154.9	5945.1	5545.8	5021.4	4584.9	4222.8	3986.0	3874.3
6452.6	12.5°	6452.6	6432.3	6330.8	5901.1	5166.8	4348.0	3745.7	3343.1	3123.1	3025.0
6709.8	15°	6716.6	6689.5	6489.9	5691.3	4615.3	3603.6	3052.1	2750.9	2608.8	2520.8
7038.0	17.5°	7044.8	6997.4	6608.3	5376.6	4016.4	3035.1	2625.7	2399.0	2273.8	2189.2
7467.7	20°	7471.1	7393.3	6703.0	5001.0	3464.9	2676.5	2338.1	2148.6	2053.9	1979.4
8076.8	22.5°	8066.6	7955.0	6818.1	4595.0	3075.7	2429.5	2124.9	1986.2	1908.4	1823.8
8926.1	25°	8804.3	8672.3	6960.2	4219.4	2808.4	2216.3	1969.3	1854.2	1762.9	1664.8
10039.3	27.5°	9836.3	9599.4	7129.4	3911.5	2578.3	2033.6	1827.2	1698.6	1593.7	1512.5
11301.4	30°	10986.7	10597.6	7278.3	3725.4	2368.6	1864.4	1641.1	1512.5	1414.4	1356.8
12435.0	32.5°	12076.3	11548.4	7376.4	3644.2	2179.1	1671.5	1438.1	1299.3	1224.9	1208.0
13544.8	35°	13104.9	12407.9	7366.2	3566.4	2009.9	1478.7	1238.4	1096.3	1038.8	1048.9
14739.2	37.5°	14289.2	13324.9	7295.2	3444.6	1871.2	1302.7	1065.9	940.7	889.9	893.3
16190.8	40°	15666.3	14383.9	7251.2	3214.5	1718.9	1140.3	923.7	822.2	785.0	771.5
17720.2	42.5°	17134.9	15409.2	7258.0	2953.9	1529.4	994.8	825.6	741.0	707.2	697.0
19422.2	45°	18610.1	16387.1	7268.1	2683.2	1329.8	883.1	754.6	683.5	663.2	649.7
21147.9	47.5°	19997.4	17219.4	7078.6	2392.2	1133.5	798.5	697.0	649.7	632.7	615.8
22880.3	50°	21290.0	17774.4	6621.8	2053.9	977.9	730.9	653.0	619.2	602.3	585.4
24450.3	52.5°	22294.9	17862.3	5867.3	1705.4	869.6	680.1	626.0	595.5	575.2	558.3
25719.2	55°	22741.6	17310.8	4794.6	1380.5	785.0	636.1	598.9	568.5	544.8	527.9
26717.4	57.5°	22626.5	16150.2	3738.9	1109.8	703.8	592.1	565.1	544.8	517.7	490.6
27526.1	60°	22061.5	14597.1	2818.6	923.7	629.4	544.8	527.9	510.9	473.7	433.1
27837.4	62.5°	21083.6	12644.7	2009.9	764.7	548.2	490.6	483.9	470.3	416.2	341.7
27377.2	65°	19588.0	10272.8	1353.5	636.1	470.3	429.7	433.1	409.4	338.4	253.8
25692.1	67.5°	17402.2	7511.7	866.2	521.1	392.5	358.7	362.1	348.5	287.6	216.6
22498.0	70°	14617.4	4974.0	565.1	395.9	314.7	277.5	297.8	301.1	243.6	176.0
17266.8	72.5°	10716.1	2937.0	395.9	294.4	230.1	192.9	243.6	250.4	196.3	132.0
10387.8	75°	6107.5	1394.1	297.8	213.2	142.1	135.3	189.5	189.5	135.3	88.0
4496.9	77.5°	2564.8	582.0	209.8	138.7	81.2	77.8	128.6	118.4	67.7	40.6
1096.3	80°	741.0	260.5	111.7	67.7	33.8	30.5	50.8	37.2	16.9	6.8
416.2	82.5°	291.0	115.0	44.0	27.1	13.5	13.5	6.8	0.0	0.0	0.0
236.9	85°	172.6	47.4	20.3	10.2	3.4	0.0	0.0	0.0	0.0	0.0
50.8	87.5°	44.0	10.2	6.8	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

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180°
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5870.7
5830.0
5579.7
4865.7
3864.1
3014.8
2524.2
2182.5
1965.9
1810.3
1654.6
1495.6
1346.7
1218.1
1048.9
906.8
768.1
693.7
649.7
615.8
585.4
554.9
524.5
487.2
426.3
335.0
247.0
206.4
169.2
125.2
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