

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: P853122

Luminaire Tested: **GLAN-SB8D-840-U-T4FT-HSS**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P853122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB8D-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55406 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

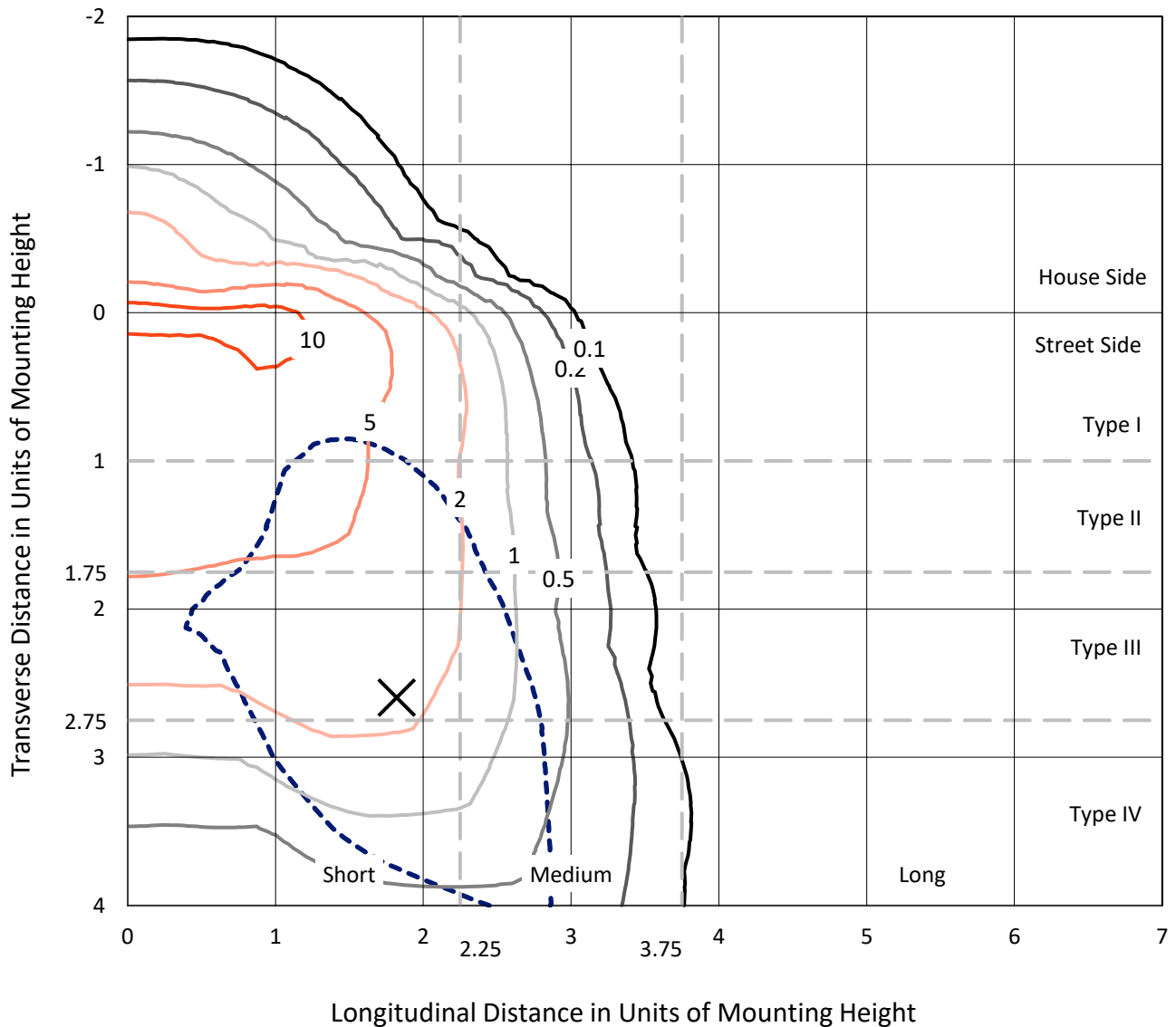
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

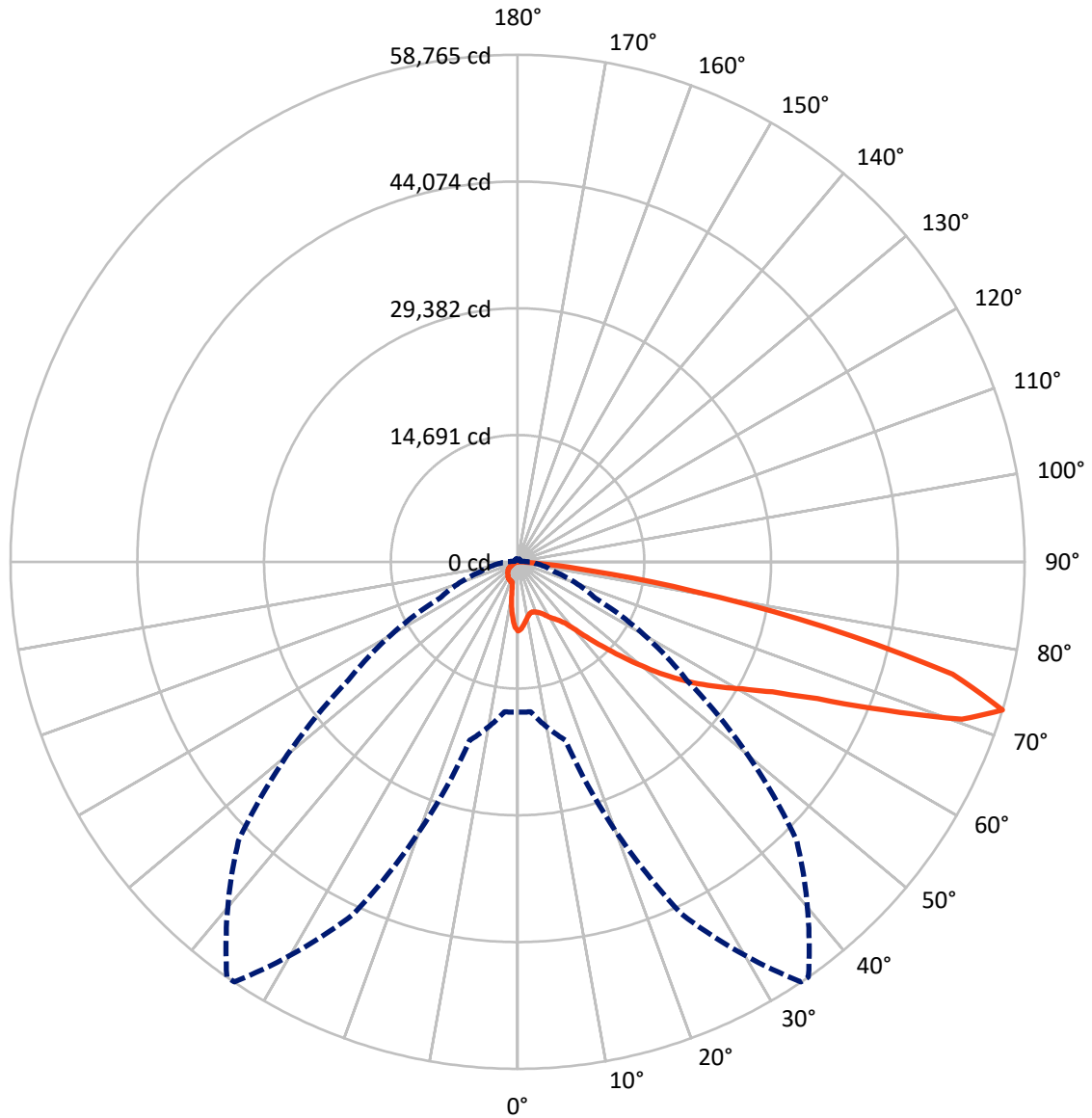
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6235.7	0.0	6235.7
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	49170.3	0.0	49170.3
	% Fixture	88.7	0.0	88.7
Total	Lumens	55406.0	0.0	55406.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	659.9	1.2
10°-20°	1543.7	2.8
20°-30°	2507.7	4.5
30°-40°	4184.0	7.6
40°-50°	7916.3	14.3
50°-60°	12578.9	22.7
60°-70°	15561.0	28.1
70°-80°	9672.8	17.5
80°-90°	781.7	1.4
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°	55406.0	100.0
0°-180°	55406.0	100.0

Coefficient of Utilization



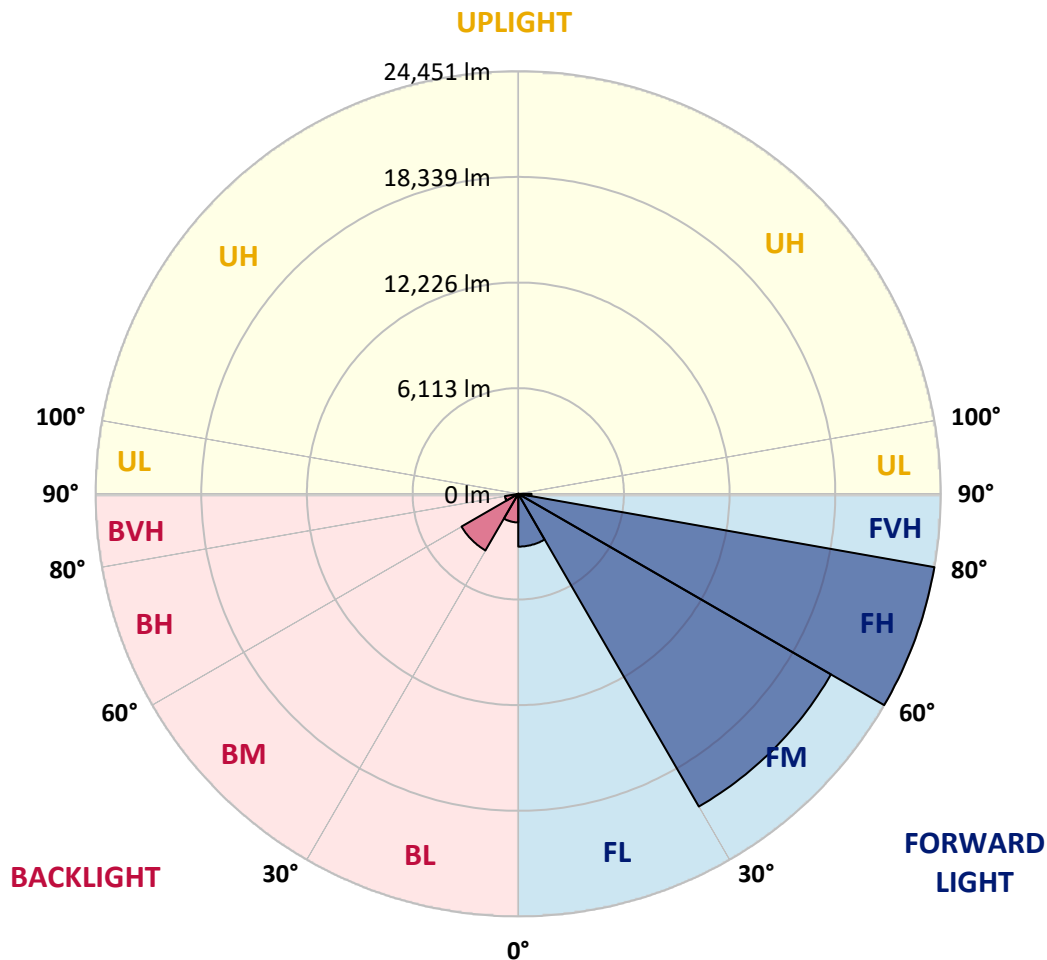
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3054.3	5.5			
FM (30°-60°)	20893.6	37.7			
FH (60°-80°)	24451.4	44.1			G5
FVH (80°-90°)	771.1	1.4			G5
BL (0°-30°)	1656.9	3.0	B3/2500		
BM (30°-60°)	3785.6	6.8	B3/5000		
BH (60°-80°)	782.5	1.4	B2/1000		G2/1000
BVH (80°-90°)	10.6	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	8030.2	8030.2	8030.2	8030.2	8030.2	8030.2	8030.2	8030.2	8030.2	8030.2
2.5°	7672.9	7737.9	7750.1	7770.4	7770.4	7794.7	7835.3	7892.2	7985.5	8034.2
5°	7072.1	7120.8	7181.7	7230.4	7323.8	7336.0	7494.3	7648.6	7863.7	8026.1
7.5°	6467.2	6524.0	6605.2	6722.9	6844.7	6881.3	7120.8	7380.6	7721.6	8026.1
10°	6040.9	6045.0	6118.0	6235.8	6430.6	6475.3	6767.6	7137.0	7563.3	7977.4
12.5°	5801.4	5829.8	5862.3	5951.6	6138.3	6166.8	6479.4	6913.8	7405.0	7949.0
15°	5801.4	5821.7	5842.0	5886.6	6036.8	6061.2	6337.3	6771.7	7323.8	7961.2
17.5°	5862.3	5894.8	5878.5	5931.3	6089.6	6105.9	6349.5	6731.1	7319.7	8038.3
20°	6008.4	6032.8	6000.3	6032.8	6191.1	6223.6	6475.3	6808.2	7388.7	8172.3
22.5°	6239.8	6252.0	6174.9	6199.2	6361.6	6402.2	6694.5	7027.4	7555.2	8387.4
25°	6532.1	6556.5	6438.8	6467.2	6621.5	6670.2	7007.1	7356.3	7819.1	8683.8
27.5°	6869.1	6881.3	6779.8	6775.7	6974.7	7043.7	7384.7	7762.2	8172.3	9057.3
30°	7254.8	7291.3	7193.9	7177.6	7429.3	7486.2	7823.1	8261.6	8691.9	9617.5
32.5°	7559.3	7587.7	7530.8	7571.4	7827.2	7871.9	8355.0	8968.0	9507.9	10413.3
35°	7997.7	8013.9	7884.0	7957.1	8249.4	8363.1	9081.7	9958.6	10535.1	11412.0
37.5°	9585.1	9585.1	9032.9	8671.6	8951.8	9053.2	10076.3	11204.9	11801.7	12751.7
40°	11781.4	11744.9	10937.0	10198.1	10161.6	10360.5	11493.2	12776.0	13437.8	14359.3
42.5°	14123.9	14067.0	12966.8	12236.1	12114.3	12183.3	13129.2	14712.5	15386.5	16320.2
45°	16202.5	16186.2	15179.4	14196.9	13977.7	14196.9	15171.3	16977.9	17461.0	18443.4
47.5°	17944.1	17944.1	17209.3	16567.8	16454.2	16584.1	17936.0	19490.9	19446.2	20704.7
50°	19949.6	19933.4	19235.1	18959.0	19076.8	19259.5	21118.8	22137.8	21500.4	22925.4
52.5°	21354.3	21451.7	21212.2	21167.5	21768.4	22085.0	24350.4	24727.9	23339.5	25032.4
55°	22466.7	22580.3	22856.4	23169.0	24326.0	24740.1	27480.5	27184.1	24878.2	26859.3
57.5°	24041.8	23879.5	24305.7	24922.8	26794.4	27293.7	30513.1	29502.2	26116.4	28341.1
60°	25954.0	25978.3	26051.4	26830.9	29258.6	29900.1	33501.1	31694.5	26912.1	29250.5
62.5°	28251.8	28288.3	28438.6	29636.2	32567.3	33172.2	36683.9	33488.9	27277.5	28994.7
65°	28093.5	28247.7	29924.4	34020.7	37597.4	38194.1	40398.6	34747.4	26725.3	26656.3
67.5°	25592.7	25844.4	28649.7	39257.8	45181.0	45846.8	44888.7	34995.1	24342.3	20729.1
70°	22312.4	22401.7	25775.4	43967.1	53962.2	54636.1	48907.8	32271.0	18471.9	11562.2
72.5°	17424.5	17444.7	21403.0	45059.2	58728.4	58764.9	45753.4	23956.6	9934.2	4441.4
75°	12447.2	12325.4	14335.0	36541.8	51668.4	52082.5	34300.8	11237.4	3795.9	2098.9
77.5°	6674.2	6808.2	8111.4	21670.9	35693.3	36399.7	18715.5	3239.7	1932.4	1429.0
80°	2062.4	2176.0	3324.9	9922.0	20217.6	20643.8	6938.1	1441.2	1347.8	1019.0
82.5°	649.6	673.9	1550.8	4169.4	8391.5	8586.4	2009.6	816.0	921.6	673.9
85°	186.7	190.8	690.2	1554.9	2074.5	2115.1	564.3	316.7	527.8	418.2
87.5°	20.3	65.0	259.8	259.8	182.7	178.6	60.9	69.0	150.2	52.8
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°
8030.2	0°	8030.2	8030.2	8030.2	8030.2	8030.2	8030.2	8030.2	8030.2	8030.2	8030.2
8066.7	2.5°	8046.4	8050.5	7997.7	7908.4	7811.0	7729.8	7628.3	7547.1	7490.2	7474.0
8139.8	5°	8103.3	8074.8	7924.6	7652.6	7327.9	7047.7	6735.1	6487.5	6325.1	6256.1
8216.9	7.5°	8188.5	8107.3	7778.5	7242.6	6621.5	6069.3	5509.1	5074.7	4798.6	4660.6
8290.0	10°	8261.6	8099.2	7534.9	6649.9	5699.9	4863.6	4108.5	3584.8	3292.5	3154.4
8375.3	12.5°	8330.6	8095.1	7218.2	5947.5	4660.6	3637.5	2935.2	2675.4	2594.2	2565.8
8513.3	15°	8460.5	8107.3	6820.4	5143.7	3625.4	2748.5	2492.7	2488.6	2504.9	2496.7
8724.4	17.5°	8639.1	8119.5	6369.7	4291.2	2797.2	2423.7	2411.5	2448.0	2472.4	2460.2
8988.3	20°	8870.6	8168.2	5890.7	3446.7	2403.4	2342.5	2370.9	2403.4	2423.7	2403.4
9341.5	22.5°	9195.3	8253.5	5367.0	2768.8	2277.5	2293.8	2318.1	2354.7	2375.0	2346.5
9792.1	25°	9593.2	8387.4	4851.4	2407.4	2216.6	2236.9	2273.5	2314.1	2338.4	2310.0
10360.5	27.5°	10108.8	8602.6	4376.4	2326.2	2155.7	2167.9	2220.7	2281.6	2314.1	2277.5
11168.4	30°	10855.8	8955.8	3966.4	2362.8	2119.2	2090.8	2163.8	2249.1	2285.6	2253.2
12268.6	32.5°	11846.4	9455.2	3714.7	2419.6	2103.0	2001.5	2070.5	2180.1	2241.0	2220.7
13705.7	35°	13145.5	10214.3	3617.2	2484.6	2090.8	1908.1	1956.8	2074.5	2180.1	2200.4
15516.4	37.5°	14720.7	11269.9	3645.7	2513.0	2054.2	1830.9	1855.3	1956.8	2094.8	2159.8
17554.4	40°	16511.0	12500.0	3808.0	2484.6	2013.6	1766.0	1770.1	1847.2	1969.0	2066.4
19746.6	42.5°	18358.2	13937.1	4108.5	2379.0	1977.1	1709.2	1697.0	1749.8	1830.9	1900.0
21934.8	45°	20116.1	15414.9	4404.8	2232.9	1932.4	1652.3	1623.9	1644.2	1660.4	1688.9
24066.2	47.5°	21650.7	16454.2	4319.6	2098.9	1871.5	1587.4	1538.6	1530.5	1481.8	1477.7
25970.2	50°	22710.2	16681.5	3836.5	1964.9	1782.2	1514.3	1437.2	1388.4	1303.2	1262.6
27395.2	52.5°	23047.2	15784.3	3134.1	1830.9	1636.1	1416.9	1307.2	1230.1	1124.6	1088.0
28215.3	55°	22600.6	14026.4	2504.9	1668.6	1433.1	1286.9	1165.1	1063.7	978.4	933.7
28304.6	57.5°	21508.6	11789.5	1981.2	1477.7	1217.9	1140.8	1019.0	917.5	844.4	799.8
27314.0	60°	19697.9	9361.8	1567.1	1250.4	1039.3	982.5	856.6	791.7	726.7	673.9
24756.4	62.5°	16949.5	6682.3	1230.1	990.6	868.8	803.8	730.8	682.0	604.9	531.8
20156.7	65°	13226.7	4088.2	950.0	726.7	698.3	665.8	621.1	576.5	483.1	410.0
13149.5	67.5°	8342.8	1936.5	678.0	548.1	552.1	535.9	515.6	479.1	410.0	345.1
5890.7	70°	3674.1	937.8	446.6	418.2	410.0	410.0	426.3	414.1	349.1	288.2
2046.1	72.5°	1250.4	503.4	332.9	316.7	296.4	292.3	357.3	345.1	280.1	223.3
1019.0	75°	653.6	337.0	243.6	227.3	178.6	215.2	284.2	267.9	198.9	146.2
673.9	77.5°	426.3	239.5	166.4	146.2	101.5	142.1	211.1	186.7	117.7	73.1
442.5	80°	267.9	158.3	97.4	69.0	48.7	77.1	113.7	81.2	44.7	16.2
259.8	82.5°	142.1	81.2	36.5	24.4	20.3	24.4	28.4	20.3	8.1	0.0
134.0	85°	56.8	28.4	12.2	8.1	4.1	0.0	8.1	4.1	0.0	0.0
24.4	87.5°	20.3	4.1	0.0	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°
8030.2
7502.4
6280.4
4680.9
3158.5
2557.6
2492.7
2456.1
2399.3
2342.5
2305.9
2277.5
2249.1
2220.7
2200.4
2176.0
2098.9
1928.4
1705.1
1473.7
1266.6
1084.0
933.7
791.7
661.7
519.6
397.9
337.0
276.1
211.1
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