

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: P850046

Luminaire Tested: **GLAN-SB7B-840-U-T2**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P850046
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB7B-840-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35287 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

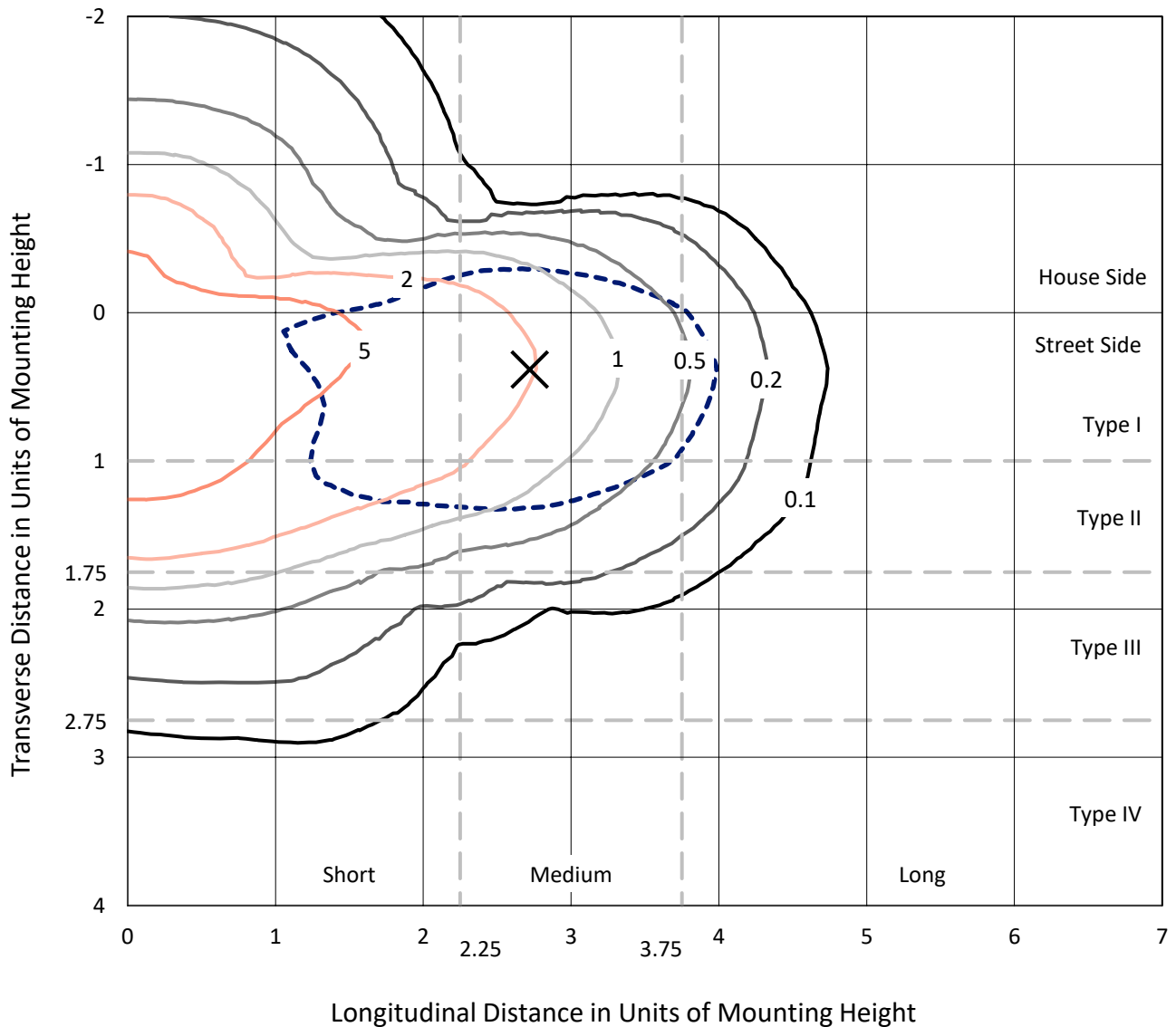
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

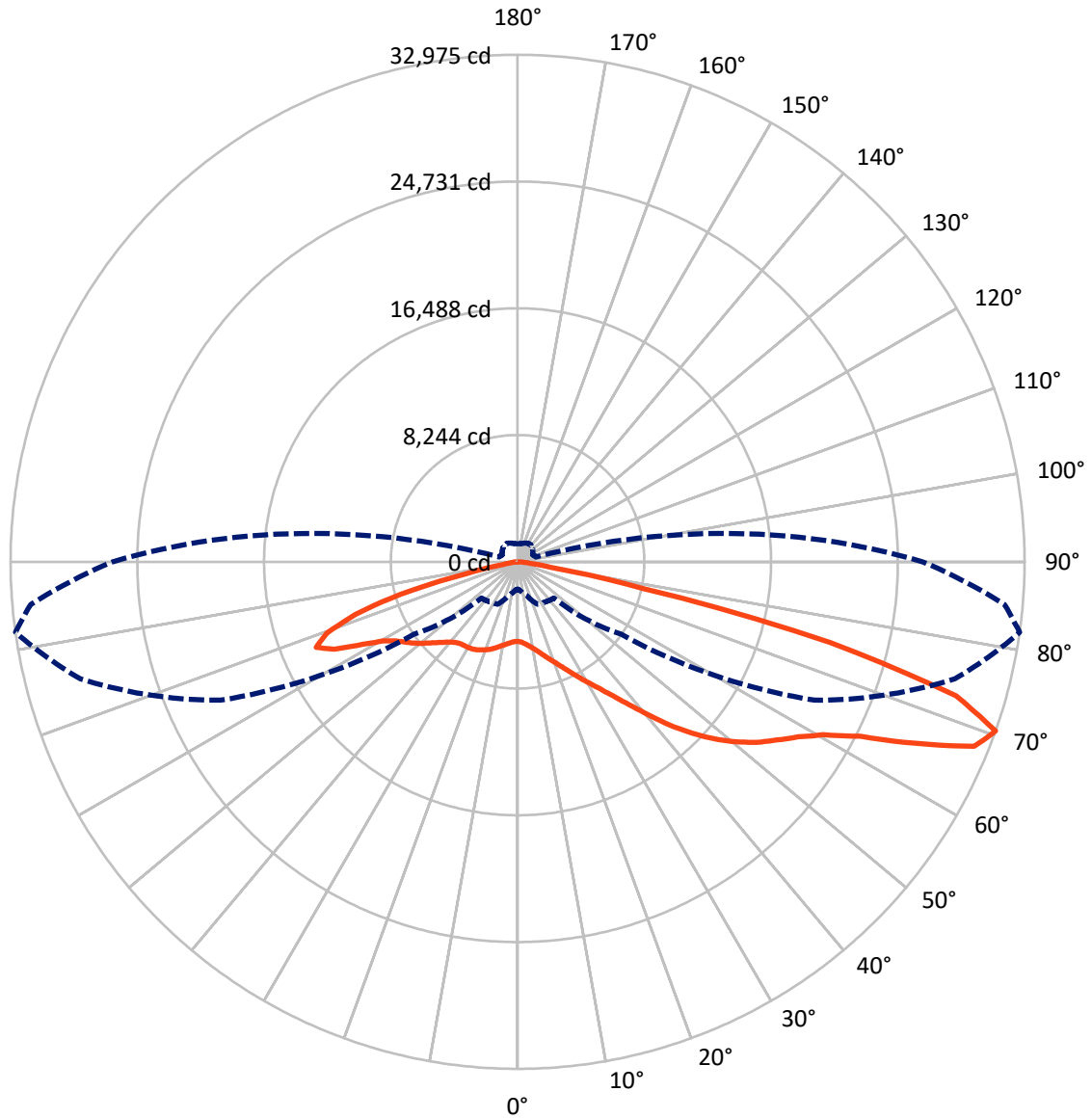
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8699.1	0.0	8699.1
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	26587.9	0.0	26587.9
	% Fixture	75.3	0.0	75.3
Total	Lumens	35287.0	0.0	35287.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.5	1.4
10°-20°	1403.4	4.0
20°-30°	2347.8	6.7
30°-40°	3667.8	10.4
40°-50°	5841.4	16.6
50°-60°	8129.0	23.0
60°-70°	8503.3	24.1
70°-80°	4444.3	12.6
80°-90°	461.5	1.3
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°	35287.0	100.0
0°-180°	35287.0	100.0

Coefficient of Utilization

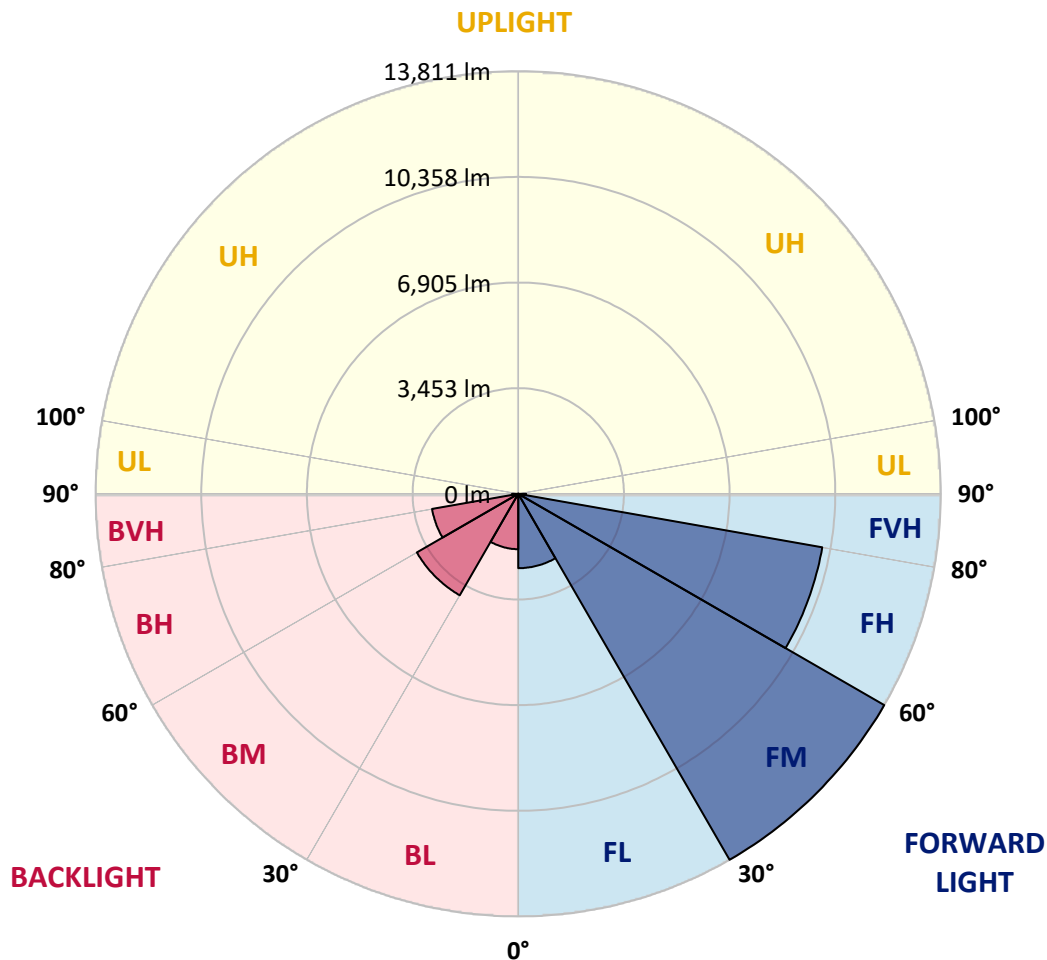


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2429.9	6.9			
FM (30°-60°)	13811.0	39.1			
FH (60°-80°)	10088.7	28.6			G4/12000
FVH (80°-90°)	258.3	0.7			G3/500
BL (0°-30°)	1809.7	5.1	B3/2500		
BM (30°-60°)	3827.3	10.8	B3/5000		
BH (60°-80°)	2859.0	8.1	B4/5000		G4/5000
BVH (80°-90°)	203.1	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5173.5	5173.5	5173.5	5173.5	5173.5	5173.5	5173.5	5173.5	5173.5	5173.5
2.5°	5297.1	5327.1	5317.7	5308.3	5308.3	5295.2	5293.4	5274.6	5259.6	5235.3
5°	5364.5	5396.3	5392.6	5400.1	5424.4	5430.0	5435.7	5424.4	5394.5	5364.5
7.5°	5304.6	5340.2	5351.4	5396.3	5471.2	5538.6	5589.2	5609.8	5581.7	5538.6
10°	5102.4	5141.7	5181.0	5287.7	5420.7	5579.8	5714.6	5795.2	5789.5	5748.4
12.5°	4692.3	4733.5	4817.8	5025.6	5269.0	5549.9	5800.8	5969.3	6027.3	5997.4
15°	4364.6	4400.2	4463.9	4677.3	4993.8	5420.7	5832.6	6160.3	6308.2	6291.4
17.5°	4355.3	4370.2	4409.6	4510.7	4754.1	5218.5	5798.9	6347.5	6630.3	6628.4
20°	4520.0	4525.7	4548.1	4568.7	4707.3	5064.9	5712.8	6502.9	6991.6	6991.6
22.5°	4748.5	4744.7	4767.2	4748.5	4815.9	5051.8	5658.5	6639.6	7394.2	7424.2
25°	5091.1	5072.4	5066.8	5023.7	5036.8	5173.5	5718.4	6795.0	7871.7	7933.5
27.5°	5548.0	5518.0	5497.4	5398.2	5364.5	5424.4	5901.9	6982.3	8403.5	8510.2
30°	6143.4	6089.1	6059.2	5886.9	5765.2	5774.6	6179.0	7231.3	8959.6	9131.8
32.5°	6956.1	6871.8	6791.3	6508.6	6285.7	6212.7	6536.6	7575.8	9562.5	9837.7
35°	7866.1	7798.7	7712.5	7276.3	6933.6	6765.1	7019.7	8057.1	10268.4	10704.7
37.5°	8742.4	8684.3	8725.5	8137.6	7695.7	7450.4	7652.6	8703.0	11139.1	11783.2
40°	9648.6	9603.7	9609.3	9047.6	8532.6	8257.4	8420.3	9513.8	12137.1	13065.8
42.5°	10633.5	10599.8	10487.5	9989.4	9410.8	9154.3	9304.1	10450.0	13208.1	14526.3
45°	11736.4	11715.8	11610.9	11039.8	10377.0	10088.6	10290.9	11483.6	14284.7	15900.6
47.5°	12689.4	12706.3	12693.2	12212.0	11524.8	11101.6	11343.2	12562.1	15286.5	17192.6
50°	13148.2	13236.2	13365.4	13215.6	12788.7	12358.0	12404.8	13603.2	16241.4	18404.1
52.5°	12908.5	13075.2	13427.2	13666.8	13831.6	13741.7	13616.3	14636.8	17140.2	19497.6
55°	12015.4	12249.4	12833.6	13412.2	14252.9	14906.4	15071.2	15782.7	18016.5	20460.0
57.5°	10388.2	10768.3	11292.6	12462.9	13878.4	15470.0	16767.6	17372.4	18945.2	21488.0
60°	7598.3	8107.6	8759.2	10500.6	12567.7	15168.5	18211.2	19814.0	20265.3	22819.3
62.5°	4862.7	5177.3	5776.4	7416.7	9792.8	13623.8	18653.1	22866.1	22502.8	25002.5
65°	3329.2	3531.4	4080.0	5001.3	6330.7	10141.1	17469.7	25154.2	26056.7	28462.8
67.5°	2419.2	2572.7	3040.8	3847.8	4125.0	6001.1	13556.4	25049.3	29511.3	32027.9
70°	1763.8	1872.4	2265.6	3040.8	3173.8	3338.5	8212.5	21293.2	29436.4	32975.3
72.5°	1307.0	1381.9	1645.9	2359.3	2569.0	2254.4	4065.0	15475.6	25294.6	29825.9
75°	945.6	1001.7	1196.5	1805.0	2055.9	1717.0	2027.8	9043.8	17643.9	20980.5
77.5°	722.8	765.8	893.1	1321.9	1645.9	1288.2	1258.3	4160.5	8366.0	8407.2
80°	580.5	608.5	677.8	930.6	1262.0	964.3	820.1	1679.6	2643.9	2237.6
82.5°	426.9	473.7	573.0	653.5	902.5	664.7	499.9	848.2	1005.5	865.1
85°	243.4	275.2	346.4	468.1	576.7	406.3	286.5	376.4	468.1	383.8
87.5°	86.1	112.3	121.7	183.5	250.9	168.5	110.5	108.6	153.5	114.2
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°
5173.5	0°	5173.5	5173.5	5173.5	5173.5	5173.5	5173.5	5173.5	5173.5	5173.5	5173.5
5229.7	2.5°	5211.0	5201.6	5164.2	5113.6	5061.2	5010.6	4993.8	4958.2	4933.8	4920.7
5351.4	5°	5315.8	5285.9	5197.9	5085.5	4967.5	4840.2	4750.3	4668.0	4608.0	4551.9
5518.0	7.5°	5465.6	5413.2	5261.5	5064.9	4855.2	4643.6	4486.3	4366.5	4286.0	4233.6
5712.8	10°	5639.7	5559.2	5327.1	5033.1	4709.2	4405.8	4220.5	4117.5	4066.9	4038.8
5935.6	12.5°	5840.1	5725.9	5394.5	4960.1	4486.3	4139.9	4012.6	3982.7	3984.5	3986.4
6216.5	15°	6087.3	5928.1	5448.8	4800.9	4196.1	3935.8	3913.4	3962.1	4012.6	4037.0
6534.8	17.5°	6366.3	6141.6	5458.1	4538.8	3911.5	3804.8	3875.9	3980.8	4057.5	4091.3
6890.5	20°	6665.8	6358.8	5390.7	4168.0	3677.4	3698.0	3825.4	3960.2	4044.4	4087.5
7296.8	22.5°	7008.5	6590.9	5229.7	3778.6	3486.5	3582.0	3731.7	3862.8	3950.8	3993.9
7774.3	25°	7399.8	6851.2	4976.9	3450.9	3321.7	3450.9	3600.7	3709.3	3780.4	3819.8
8308.0	27.5°	7834.2	7122.7	4639.9	3190.6	3177.5	3316.1	3439.6	3523.9	3561.4	3591.3
8875.3	30°	8270.5	7369.9	4231.7	2994.0	3052.1	3183.1	3271.1	3308.6	3319.8	3325.4
9508.2	32.5°	8742.4	7583.3	3802.9	2831.1	2932.2	3053.9	3106.4	3123.2	3070.8	3035.2
10275.9	35°	9313.5	7811.8	3383.5	2701.9	2814.3	2919.1	2936.0	2921.0	2859.2	2786.2
11238.3	37.5°	10019.4	8096.4	3048.3	2610.2	2703.8	2773.1	2752.5	2748.7	2754.3	2668.2
12395.5	40°	10884.4	8467.1	2803.0	2539.0	2613.9	2628.9	2570.8	2602.7	2630.8	2499.7
13665.0	42.5°	11845.0	8914.6	2647.6	2490.3	2539.0	2503.4	2413.6	2449.1	2445.4	2273.1
14940.1	45°	12824.3	9401.5	2593.3	2454.8	2469.7	2398.6	2299.3	2308.7	2230.1	2074.6
16162.8	47.5°	13797.9	9923.9	2627.0	2424.8	2383.6	2303.1	2226.3	2185.1	2069.0	1952.9
17334.9	50°	14752.9	10472.5	2750.6	2364.9	2265.6	2218.8	2162.7	2089.6	1966.0	1866.8
18443.4	52.5°	15638.5	11024.8	2889.2	2265.6	2117.7	2145.8	2110.2	2026.0	1904.3	1803.1
19492.0	55°	16477.4	11577.2	2943.5	2128.9	1979.2	2082.1	2061.5	1906.1	1760.1	1677.7
20589.2	57.5°	17391.1	12241.9	2883.5	1954.8	1866.8	2009.1	1930.5	1758.2	1673.9	1612.2
22017.9	60°	18656.9	13284.9	2754.3	1739.5	1760.1	1900.5	1765.7	1694.5	1602.8	1533.5
24159.9	62.5°	20759.6	15230.3	2546.5	1526.0	1634.6	1739.5	1687.1	1615.9	1522.3	1454.9
27822.4	65°	23867.8	17934.1	2155.2	1359.4	1494.2	1582.2	1602.8	1531.6	1434.3	1363.1
31031.7	67.5°	26489.2	19630.5	1630.9	1220.8	1350.0	1454.9	1512.9	1443.6	1340.7	1271.4
31782.6	70°	26345.0	18398.5	1245.2	1084.1	1222.7	1329.4	1404.3	1350.0	1239.5	1174.0
28869.1	72.5°	23399.7	15391.3	1007.4	945.6	1093.5	1198.4	1288.2	1247.0	1134.7	1071.0
21149.1	75°	17190.8	10925.6	805.1	805.1	932.5	1061.7	1160.9	1134.7	1031.7	986.8
8879.0	77.5°	7246.3	4583.7	631.0	668.5	775.2	911.9	1035.5	1044.8	954.9	1011.1
2348.0	80°	1926.7	1263.9	481.2	526.2	608.5	752.7	900.6	896.9	799.5	747.1
872.6	82.5°	734.0	498.1	342.7	370.7	440.0	576.7	713.4	735.9	638.5	552.4
342.7	85°	282.7	213.5	211.6	222.8	256.5	382.0	539.3	558.0	481.2	408.2
95.5	87.5°	73.0	63.7	78.6	74.9	118.0	204.1	309.0	320.2	294.0	170.4
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°
5173.5
4935.7
4574.3
4244.8
4046.3
3990.1
4035.1
4098.7
4098.7
4005.1
3831.0
3602.5
3338.5
3046.4
2789.9
2673.8
2503.4
2271.3
2080.3
1952.9
1859.3
1805.0
1670.2
1606.5
1529.8
1454.9
1366.9
1273.3
1179.6
1071.0
973.7
917.5
694.7
552.4
421.3
243.4
0.0

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