

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: P850355

Luminaire Tested: **GLAN-SB7D-827-U-T2-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P850355
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB7D-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42134 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

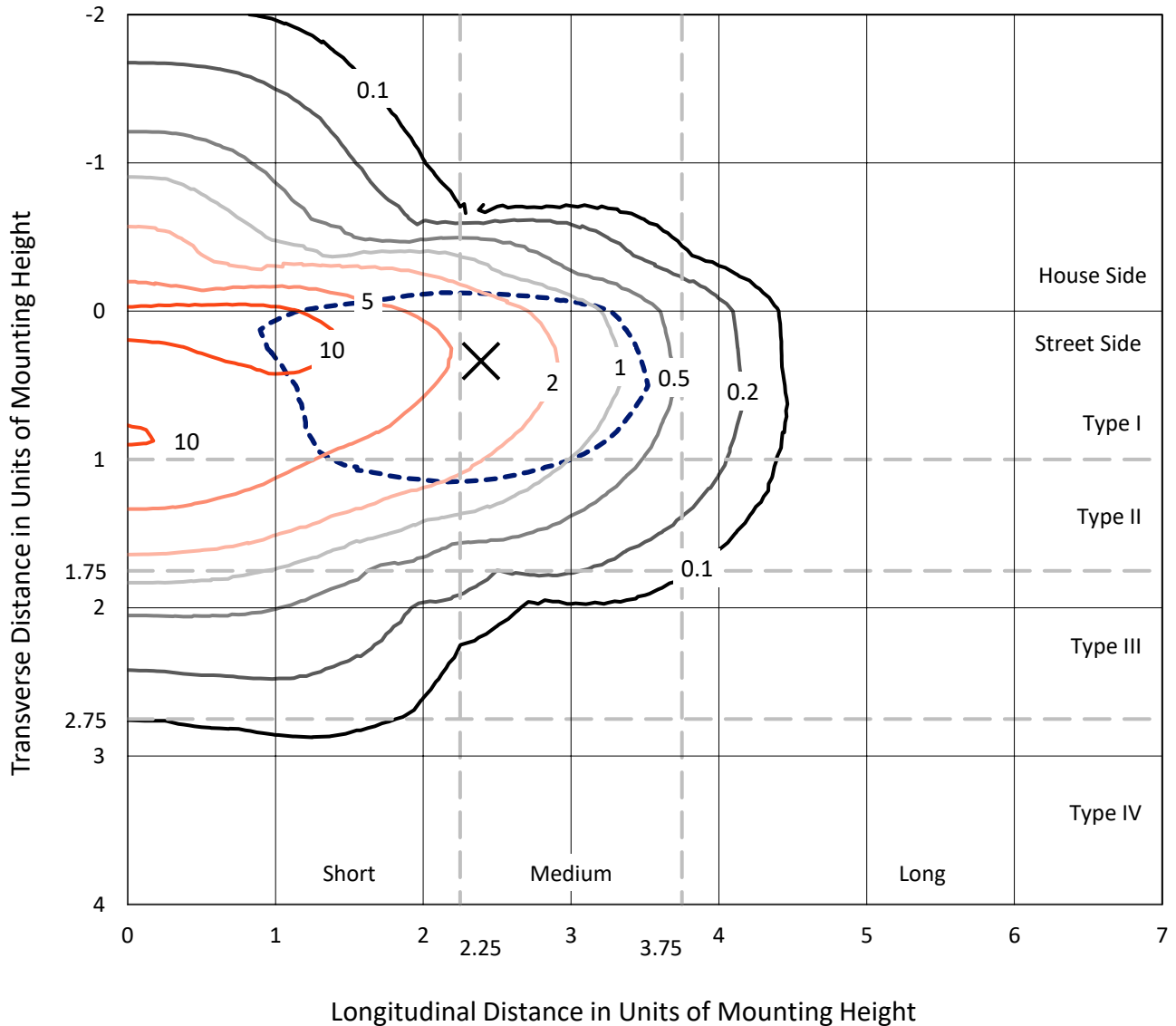
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

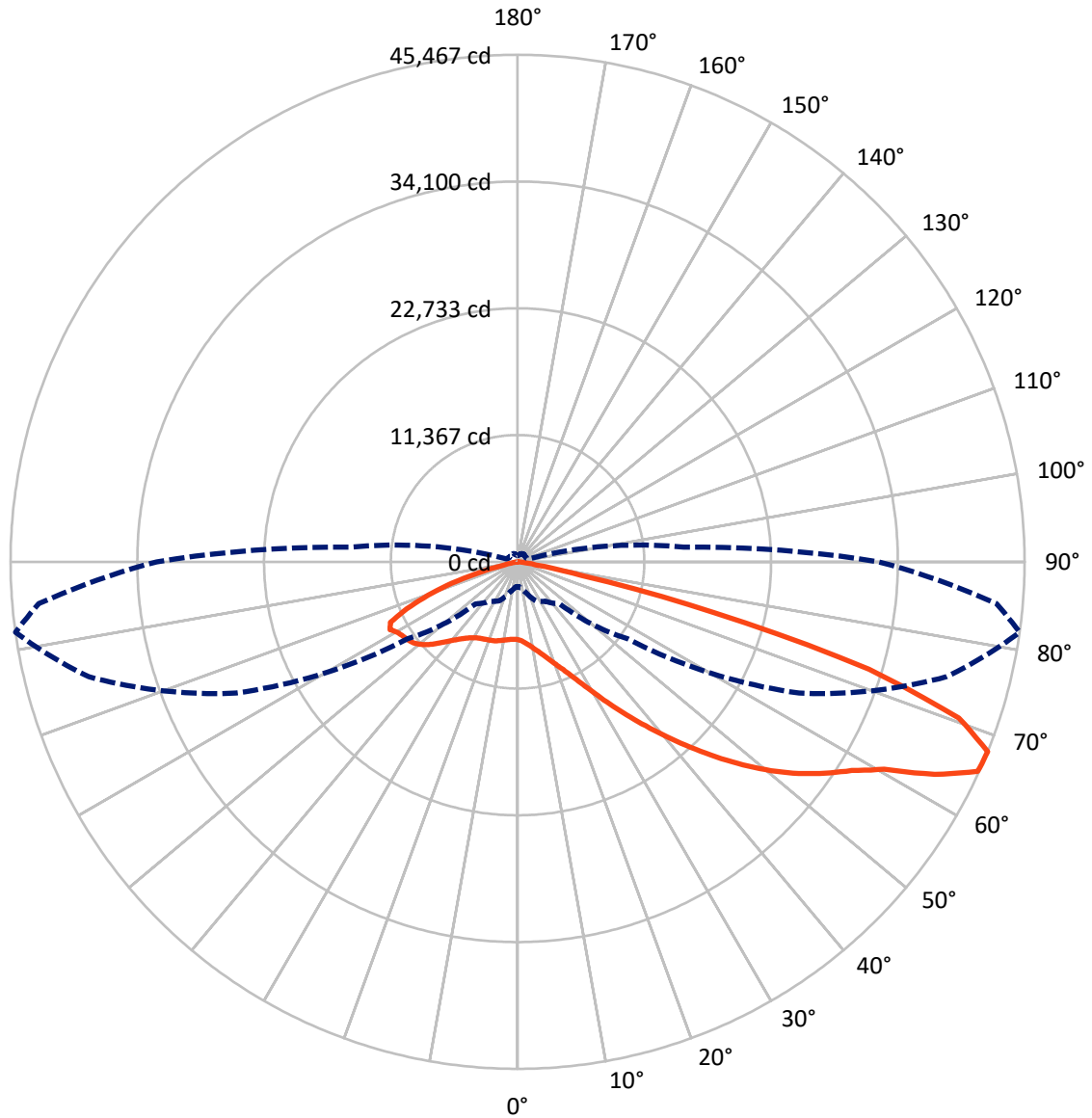
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7632.2	0.0	7632.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	34501.8	0.0	34501.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	42134.0	0.0	42134.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.9	1.5
10°-20°	1616.0	3.8
20°-30°	2588.3	6.1
30°-40°	4577.0	10.9
40°-50°	8019.3	19.0
50°-60°	10695.6	25.4
60°-70°	9957.0	23.6
70°-80°	3821.5	9.1
80°-90°	237.4	0.6
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°	42134.0	100.0
0°-180°	42134.0	100.0

Coefficient of Utilization

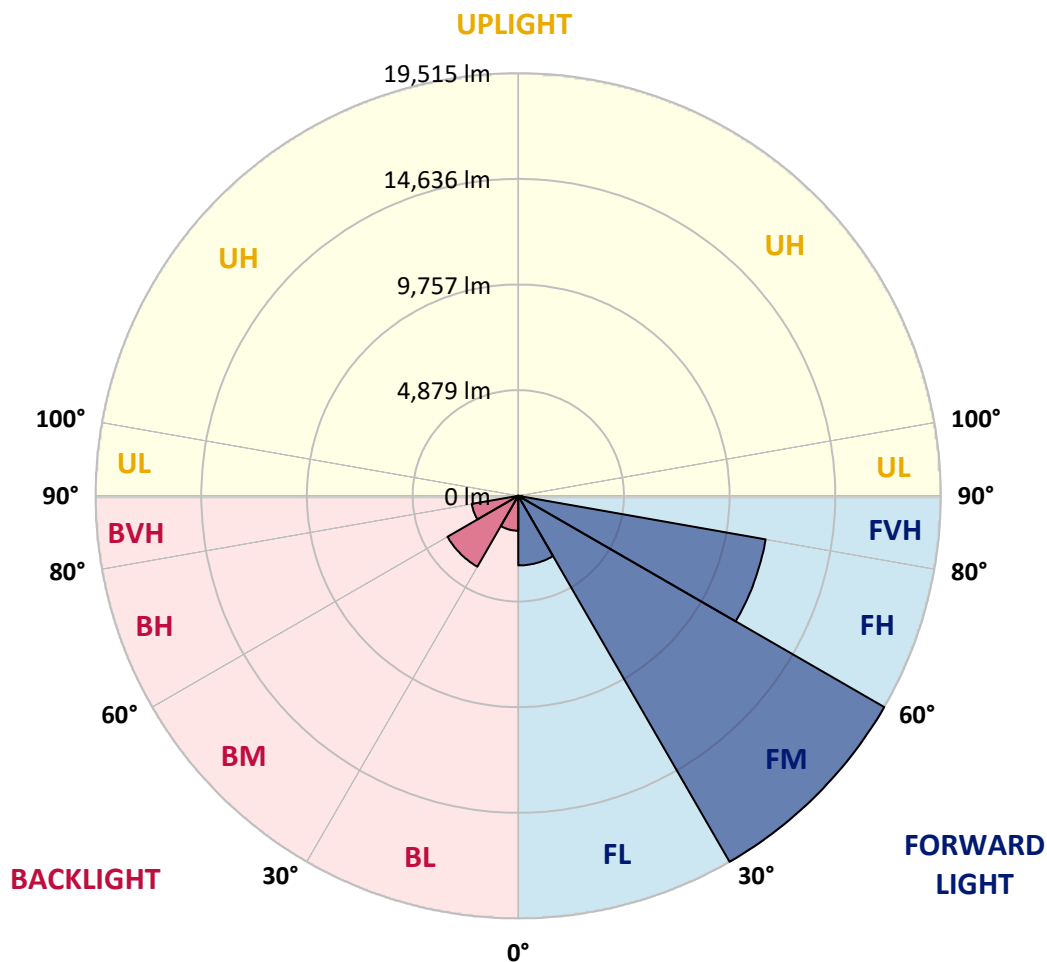


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3214.4	7.6			
FM (30°-60°)	19514.7	46.3			
FH (60°-80°)	11600.1	27.5			G4/12000
FVH (80°-90°)	172.6	0.4			G2/225
BL (0°-30°)	1611.9	3.8	B3/2500		
BM (30°-60°)	3777.1	9.0	B3/5000		
BH (60°-80°)	2178.4	5.2	B3/2500		G3/2500
BVH (80°-90°)	64.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	6980.2	6980.2	6980.2	6980.2	6980.2	6980.2	6980.2	6980.2	6980.2	6980.2
2.5°	7377.6	7420.0	7395.8	7383.6	7362.4	7332.1	7307.8	7232.0	7153.1	7101.5
5°	7526.2	7568.7	7565.7	7577.8	7593.0	7602.1	7596.0	7511.0	7398.8	7310.8
7.5°	7398.8	7447.3	7486.8	7547.5	7653.6	7765.9	7820.5	7802.3	7687.0	7565.7
10°	7037.8	7089.4	7183.4	7326.0	7550.5	7793.2	7996.4	8090.5	8017.6	7884.2
12.5°	6376.5	6428.1	6613.1	6922.5	7298.7	7720.4	8108.7	8360.4	8378.6	8245.2
15°	5633.3	5684.9	5882.0	6270.3	6843.7	7520.1	8169.3	8645.6	8806.4	8691.1
17.5°	5172.2	5217.7	5366.3	5678.8	6276.4	7119.7	8148.1	8948.9	9316.0	9225.0
20°	5032.6	5072.1	5141.9	5360.3	5857.8	6704.1	8008.5	9234.1	9865.1	9813.5
22.5°	5181.3	5217.7	5238.9	5336.0	5648.5	6431.1	7832.6	9525.3	10502.1	10508.2
25°	5524.1	5560.5	5536.2	5596.9	5733.4	6346.2	7765.9	9868.1	11303.0	11369.7
27.5°	6088.3	6091.4	6033.7	6030.7	6051.9	6473.6	7835.6	10235.2	12313.1	12437.5
30°	7219.8	7174.3	6952.9	6713.2	6604.0	6855.8	8029.8	10669.0	13505.3	13726.8
32.5°	8964.1	8897.4	8490.9	7917.5	7341.2	7471.6	8378.6	11163.4	14803.7	15204.1
35°	10857.0	10838.8	10414.1	9561.7	8554.6	8348.3	8945.9	11812.6	16220.3	16857.4
37.5°	12616.5	12607.4	12364.7	11360.6	10135.1	9570.8	9856.0	12662.0	17737.1	18659.3
40°	14224.3	14251.6	14008.9	13111.0	11876.3	11139.2	11093.7	13711.6	19423.8	20622.0
42.5°	15613.6	15644.0	15398.3	14733.9	13596.3	12874.3	12613.5	14997.8	21071.0	22730.3
45°	16557.1	16745.1	16708.7	16177.9	15361.9	14612.6	14439.7	16611.7	22948.7	24966.0
47.5°	16824.0	16996.9	17269.9	17342.8	16845.3	16108.1	16314.4	18556.2	24847.7	27204.8
50°	16165.7	16326.5	16893.8	17649.1	17995.0	17767.4	18137.5	20640.2	26792.2	29437.5
52.5°	14867.4	15031.2	15747.1	16942.3	18352.9	19068.8	19966.8	22693.9	28676.1	31551.9
55°	12989.6	13162.5	14081.7	15434.7	17670.4	19605.8	21492.6	24744.6	30402.1	33453.9
57.5°	10435.4	10562.8	11518.4	13411.3	15953.4	19071.9	22618.1	26983.3	32028.1	35322.6
60°	6801.2	6913.4	8023.7	10135.1	13107.9	17288.2	22842.6	29480.0	34188.0	37752.4
62.5°	4523.0	4598.8	5257.1	6807.3	9231.1	13863.3	21529.0	31473.0	37355.0	41981.2
65°	3103.3	3179.2	3837.4	4917.4	5963.9	9170.4	17752.3	31209.1	40224.8	45339.3
67.5°	2214.5	2278.2	2836.4	3855.6	4316.7	5326.9	12034.1	27835.8	39812.2	45466.7
70°	1586.5	1622.9	2084.0	3003.2	3430.9	3200.4	6692.0	21289.4	34858.4	41984.2
72.5°	1110.3	1122.4	1447.0	2287.3	2763.6	2335.8	3185.2	14193.9	26364.5	32953.4
75°	752.3	767.5	973.8	1677.5	2217.5	1783.7	1686.6	7611.2	15477.1	18240.7
77.5°	461.1	467.2	627.9	1146.7	1659.3	1359.0	1086.0	3224.7	5988.2	5879.0
80°	260.9	260.9	400.4	712.9	1131.5	876.7	761.4	1371.2	1896.0	1665.4
82.5°	145.6	148.6	291.2	442.9	749.3	518.7	418.6	634.0	819.1	725.0
85°	60.7	66.7	179.0	209.3	358.0	257.9	169.9	267.0	303.4	270.0
87.5°	6.1	9.1	54.6	39.4	42.5	51.6	24.3	51.6	42.5	42.5
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°
6980.2	0°	6980.2	6980.2	6980.2	6980.2	6980.2	6980.2	6980.2	6980.2	6980.2	6980.2
7083.3	2.5°	7025.7	6980.2	6864.9	6731.4	6555.5	6470.5	6355.3	6276.4	6209.7	6215.7
7259.3	5°	7162.2	7046.9	6789.1	6467.5	6067.1	5781.9	5478.6	5269.3	5099.4	5063.0
7501.9	7.5°	7350.3	7168.3	6716.3	6136.9	5460.4	4947.7	4489.6	4195.4	3986.1	3919.3
7796.2	10°	7593.0	7329.0	6622.2	5721.3	4747.5	4095.3	3603.8	3373.3	3230.7	3182.2
8142.0	12.5°	7875.1	7514.1	6497.8	5214.7	4013.4	3385.4	3073.0	2957.7	2912.2	2897.0
8566.7	15°	8230.0	7744.6	6309.8	4614.0	3391.5	2951.6	2818.2	2803.0	2809.1	2803.0
9076.4	17.5°	8651.7	7996.4	6003.4	3995.2	2972.9	2730.2	2681.7	2693.8	2709.0	2705.9
9646.7	20°	9112.8	8245.2	5612.1	3446.1	2687.7	2572.4	2545.1	2557.3	2569.4	2563.3
10304.9	22.5°	9637.6	8512.1	5178.3	3018.4	2496.6	2426.8	2396.5	2399.5	2399.5	2387.4
11139.2	25°	10265.5	8806.4	4723.2	2715.0	2351.0	2296.4	2260.0	2247.9	2229.7	2193.3
12152.4	27.5°	11014.8	9118.8	4286.4	2502.7	2235.7	2184.1	2141.7	2111.3	2065.8	2005.2
13368.8	30°	11858.1	9498.0	3916.3	2369.2	2144.7	2093.1	2044.6	1999.1	1932.4	1856.5
14767.3	32.5°	12850.1	9904.5	3646.3	2281.2	2062.8	2008.2	1950.6	1896.0	1823.2	1747.3
16338.7	35°	14033.2	10395.9	3488.6	2220.6	1999.1	1926.3	1862.6	1801.9	1747.3	1680.6
18046.5	37.5°	15316.3	10917.7	3440.0	2190.2	1956.6	1844.4	1771.6	1729.1	1723.1	1683.6
19894.0	40°	16720.9	11536.6	3476.4	2172.0	1911.1	1765.5	1686.6	1677.5	1692.7	1622.9
21868.8	42.5°	18207.3	12270.7	3537.1	2150.8	1847.4	1686.6	1610.8	1610.8	1598.7	1501.6
23955.9	45°	19815.1	13117.0	3597.8	2099.2	1771.6	1607.8	1550.1	1528.9	1477.3	1383.3
26055.1	47.5°	21435.0	13978.6	3643.3	2005.2	1680.6	1541.0	1489.5	1440.9	1365.1	1280.2
28114.9	50°	22973.0	14752.1	3594.7	1865.6	1577.4	1477.3	1422.7	1356.0	1274.1	1216.4
30065.4	52.5°	24347.2	15422.5	3388.5	1701.8	1468.2	1410.6	1362.1	1292.3	1225.6	1164.9
31824.9	55°	25542.4	15965.5	3024.4	1547.1	1371.2	1353.0	1304.4	1216.4	1125.4	1073.9
33569.2	57.5°	26689.1	16378.1	2569.4	1419.7	1283.2	1289.3	1216.4	1137.6	1052.6	998.0
35920.2	60°	28215.0	16930.2	2108.3	1301.4	1189.1	1207.3	1128.5	1070.8	964.7	894.9
39951.7	62.5°	30653.9	17788.7	1674.5	1155.8	1079.9	1086.0	1052.6	982.9	855.5	773.6
42939.8	65°	32589.3	17473.2	1319.6	998.0	955.6	964.7	964.7	888.8	752.3	658.3
43100.6	67.5°	32370.9	14961.4	1052.6	843.3	837.3	843.3	864.6	800.9	667.4	591.5
39818.3	70°	29819.7	11900.6	843.3	700.7	728.0	712.9	773.6	731.1	600.6	524.8
30869.3	72.5°	24332.0	8572.8	643.1	579.4	558.2	582.4	697.7	658.3	500.5	415.6
16350.8	75°	14218.2	4574.6	479.3	458.1	403.5	485.4	618.8	561.2	382.2	306.4
5011.4	77.5°	4629.2	1595.6	351.9	336.7	300.3	391.3	527.8	473.2	312.5	242.7
1468.2	80°	1240.7	482.3	239.6	221.4	194.1	291.2	418.6	376.2	224.5	157.7
631.0	82.5°	497.5	203.2	139.5	124.4	106.2	200.2	330.7	303.4	166.8	100.1
197.2	85°	160.8	66.7	51.6	39.4	48.5	124.4	197.2	206.3	118.3	51.6
30.3	87.5°	21.2	9.1	9.1	12.1	9.1	21.2	60.7	57.6	33.4	6.1
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°
6980.2
6155.1
4981.1
3852.6
3145.8
2887.9
2800.0
2699.9
2560.3
2381.3
2187.2
1999.1
1850.5
1750.4
1674.5
1680.6
1626.0
1501.6
1380.3
1277.1
1207.3
1158.8
1067.8
992.0
885.8
767.5
649.2
579.4
515.7
406.5
297.3
233.6
154.7
100.1
39.4
0.0
0.0

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