

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: McGRAW-EDISON

Report Number: P942054

Luminaire Tested: **GALN-SB5D-850-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942054  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5D-850-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

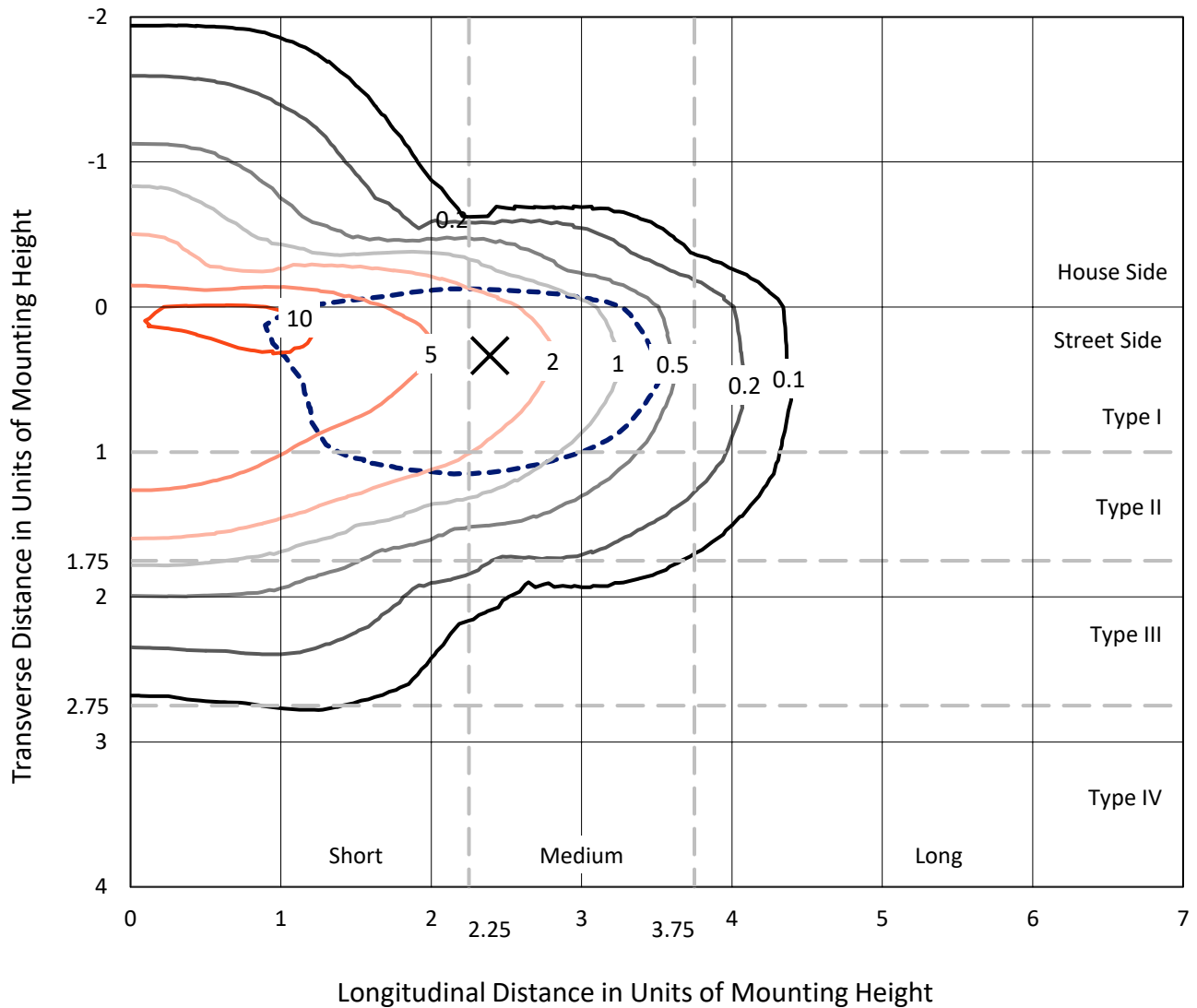
Lumens per Lamp: N/A  
Luminaire Lumens: 35904 lumens  
Efficiency: N/A  
Efficacy: 98.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

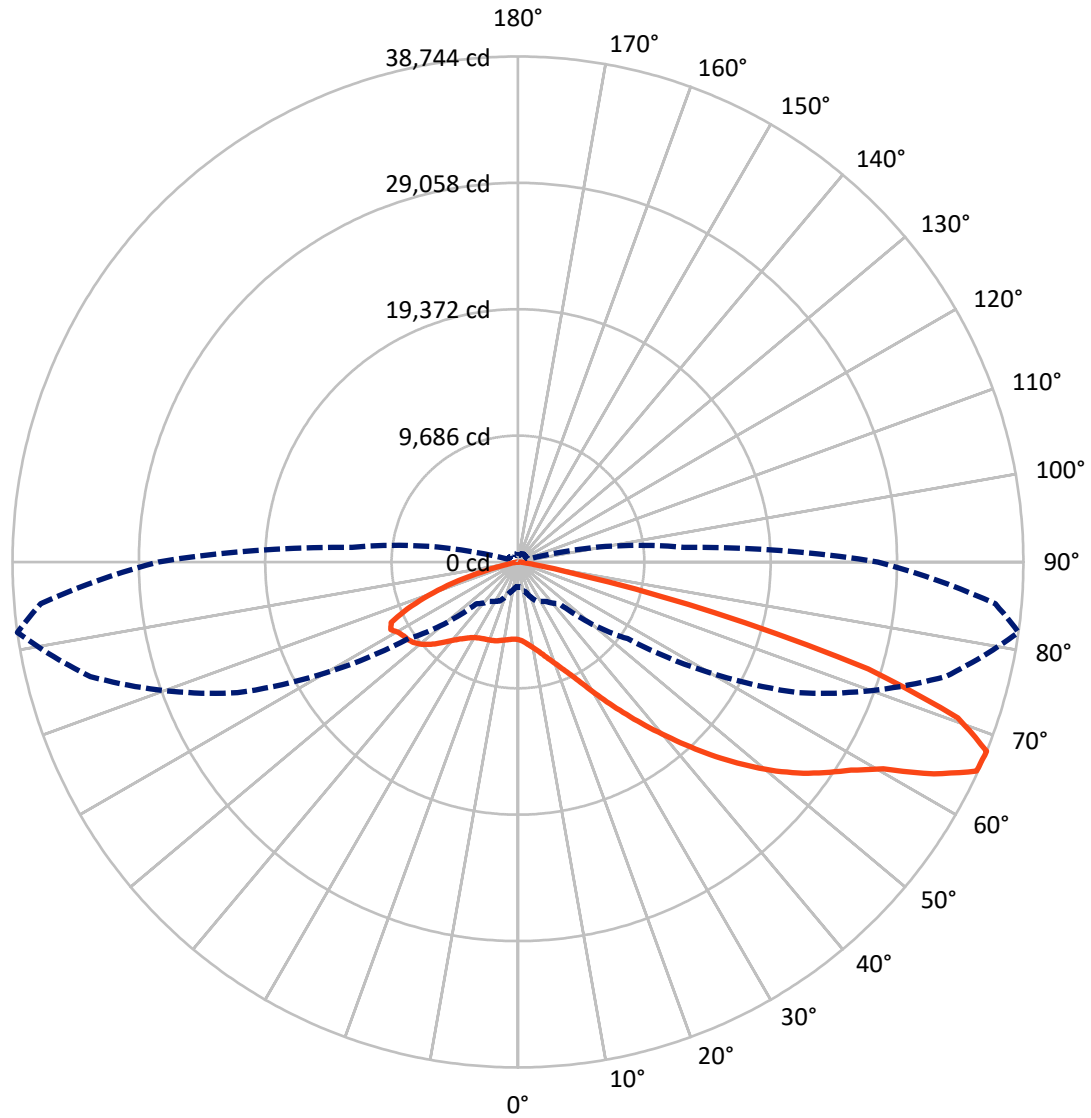
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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
<b>House Side</b>	Lumens	6503.7	0.0	6503.7
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	29400.3	0.0	29400.3
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	35904.0	0.0	35904.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	529.9	1.5
10°-20°	1377.1	3.8
20°-30°	2205.6	6.1
30°-40°	3900.2	10.9
40°-50°	6833.6	19.0
50°-60°	9114.1	25.4
60°-70°	8484.7	23.6
70°-80°	3256.4	9.1
80°-90°	202.3	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°	35904.0	100.0
0°-180°	35904.0	100.0

**Coefficient of Utilization**



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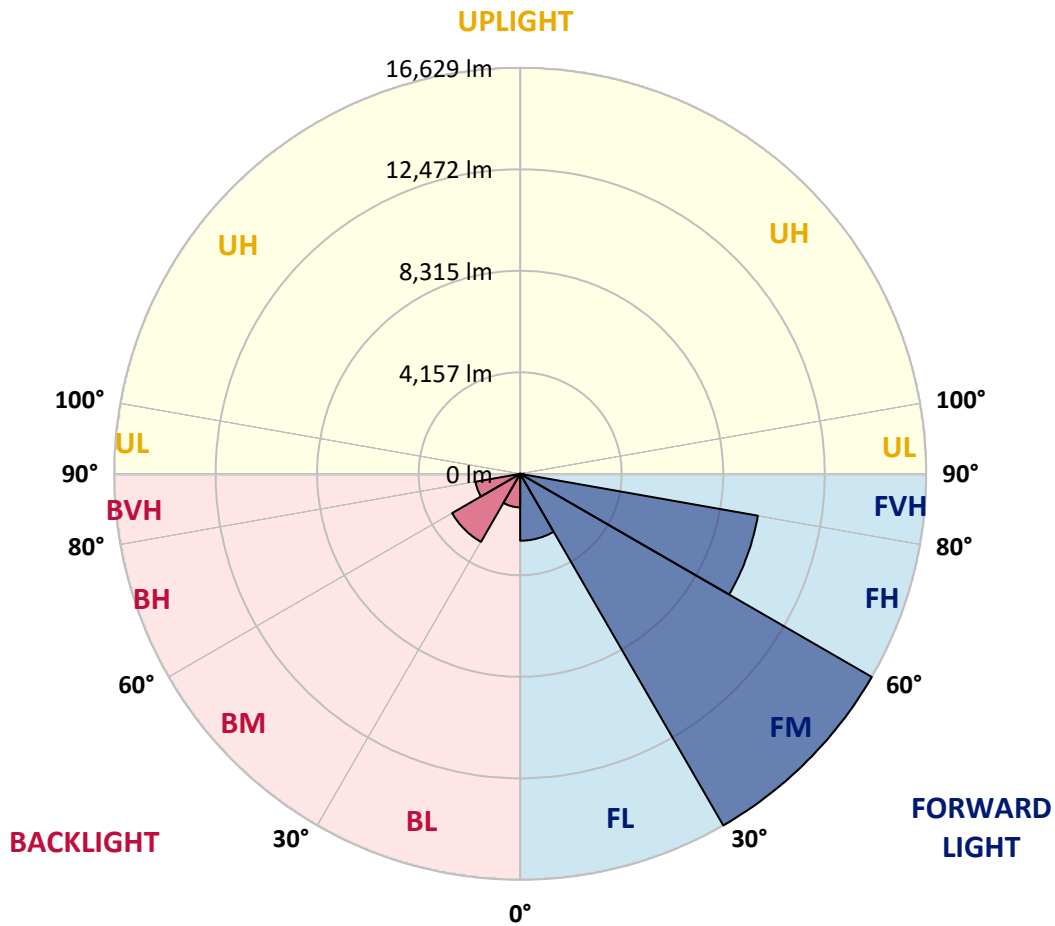
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2739.1	7.6			
FM (30°-60°)	16629.3	46.3			
FH (60°-80°)	9884.9	27.5			G4/12000
FVH (80°-90°)	147.0	0.4			G2/225
BL (0°-30°)	1373.6	3.8	B3/2500		
BM (30°-60°)	3218.6	9.0	B3/5000		
BH (60°-80°)	1856.3	5.2	B3/2500		G3/2500
BVH (80°-90°)	55.2	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°	5948.1	5948.1	5948.1	5948.1	5948.1	5948.1	5948.1	5948.1	5948.1	5948.1
2.5°	6286.7	6322.9	6302.2	6291.9	6273.8	6247.9	6227.3	6162.6	6095.4	6051.5
5°	6413.4	6449.6	6447.0	6457.3	6470.2	6478.0	6472.8	6400.5	6304.8	6229.8
7.5°	6304.8	6346.2	6379.8	6431.5	6521.9	6617.6	6664.1	6648.6	6550.4	6447.0
10°	5997.2	6041.1	6121.3	6242.8	6434.1	6640.9	6814.1	6894.2	6832.1	6718.4
12.5°	5433.7	5477.6	5635.3	5899.0	6219.5	6578.8	6909.7	7124.3	7139.8	7026.0
15°	4800.3	4844.3	5012.3	5343.2	5831.8	6408.2	6961.4	7367.2	7504.2	7406.0
17.5°	4407.4	4446.2	4572.9	4839.1	5348.4	6067.0	6943.3	7625.7	7938.5	7861.0
20°	4288.5	4322.1	4381.6	4567.7	4991.6	5712.8	6824.4	7868.7	8406.4	8362.5
22.5°	4415.2	4446.2	4464.3	4547.0	4813.3	5480.2	6674.5	8116.9	8949.3	8954.4
25°	4707.3	4738.3	4717.6	4769.3	4885.6	5407.8	6617.6	8409.0	9631.7	9688.6
27.5°	5188.1	5190.7	5141.6	5139.0	5157.1	5516.4	6677.0	8721.8	10492.5	10598.5
30°	6152.3	6113.5	5924.8	5720.6	5627.5	5842.1	6842.5	9091.4	11508.4	11697.1
32.5°	7638.7	7581.8	7235.4	6746.8	6255.7	6366.8	7139.8	9512.8	12614.8	12956.0
35°	9251.7	9236.2	8874.3	8147.9	7289.7	7113.9	7623.2	10066.0	13822.0	14364.8
37.5°	10751.0	10743.2	10536.4	9680.8	8636.5	8155.7	8398.7	10789.8	15114.5	15900.3
40°	12121.1	12144.3	11937.5	11172.4	10120.3	9492.1	9453.3	11684.2	16551.7	17572.8
42.5°	13305.0	13330.8	13121.4	12555.3	11586.0	10970.7	10748.4	12780.2	17955.4	19369.4
45°	14108.9	14269.2	14238.2	13785.8	13090.4	12451.9	12304.6	14155.4	19555.5	21274.5
47.5°	14336.4	14483.7	14716.4	14778.4	14354.5	13726.3	13902.1	15812.4	21173.7	23182.3
50°	13775.4	13912.5	14395.8	15039.5	15334.2	15140.3	15455.7	17588.3	22830.7	25084.8
52.5°	12669.1	12808.7	13418.7	14437.2	15639.2	16249.3	17014.4	19338.4	24436.0	26886.6
55°	11069.0	11216.3	11999.6	13152.5	15057.6	16706.8	18314.7	21085.8	25906.8	28507.3
57.5°	8892.4	9001.0	9815.2	11428.3	13594.5	16251.9	19273.7	22993.5	27292.4	30099.7
60°	5795.6	5891.2	6837.3	8636.5	11169.8	14731.9	19465.0	25121.0	29132.9	32170.3
62.5°	3854.2	3918.9	4479.8	5800.7	7866.1	11813.4	18345.7	26819.3	31831.7	35773.8
65°	2644.5	2709.1	3270.0	4190.3	5082.1	7814.4	15127.4	26594.4	34277.1	38635.4
67.5°	1887.0	1941.3	2417.0	3285.5	3678.5	4539.3	10254.7	23719.9	33925.5	38743.9
70°	1352.0	1383.0	1775.9	2559.1	2923.6	2727.2	5702.5	18141.5	29704.2	35776.4
72.5°	946.1	956.4	1233.0	1949.1	2354.9	1990.4	2714.2	12095.2	22466.2	28080.8
75°	641.1	654.0	829.8	1429.5	1889.6	1520.0	1437.3	6485.8	13188.7	15543.6
77.5°	392.9	398.1	535.1	977.1	1414.0	1158.1	925.4	2747.9	5102.8	5009.7
80°	222.3	222.3	341.2	607.5	964.2	747.1	648.8	1168.4	1615.6	1419.2
82.5°	124.1	126.7	248.2	377.4	638.5	442.0	356.7	540.3	697.9	617.8
85°	51.7	56.9	152.5	178.4	305.0	219.7	144.8	227.5	258.5	230.1
87.5°	5.2	7.8	46.5	33.6	36.2	43.9	20.7	43.9	36.2	36.2
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°
5948.1	0°	5948.1	5948.1	5948.1	5948.1	5948.1	5948.1	5948.1	5948.1	5948.1	5948.1
6036.0	2.5°	5986.9	5948.1	5849.8	5736.1	5586.2	5513.8	5415.6	5348.4	5291.5	5296.7
6185.9	5°	6103.2	6004.9	5785.2	5511.2	5170.0	4927.0	4668.5	4490.1	4345.4	4314.4
6392.7	7.5°	6263.4	6108.3	5723.2	5229.4	4653.0	4216.1	3825.8	3575.1	3396.7	3339.8
6643.4	10°	6470.2	6245.4	5643.0	4875.3	4045.5	3489.7	3071.0	2874.5	2753.0	2711.7
6938.1	12.5°	6710.7	6403.0	5537.1	4443.6	3420.0	2884.9	2618.6	2520.4	2481.6	2468.7
7300.0	15°	7013.1	6599.5	5376.8	3931.8	2890.0	2515.2	2401.5	2388.5	2393.7	2388.5
7734.3	17.5°	7372.4	6814.1	5115.7	3404.4	2533.3	2326.5	2285.1	2295.5	2308.4	2305.8
8220.3	20°	7765.3	7026.0	4782.2	2936.6	2290.3	2192.1	2168.8	2179.2	2189.5	2184.3
8781.2	22.5°	8212.5	7253.5	4412.6	2572.1	2127.5	2068.0	2042.1	2044.7	2044.7	2034.4
9492.1	25°	8747.6	7504.2	4024.8	2313.6	2003.4	1956.8	1925.8	1915.5	1900.0	1869.0
10355.5	27.5°	9386.1	7770.5	3652.6	2132.6	1905.1	1861.2	1825.0	1799.2	1760.4	1708.7
11392.1	30°	10104.8	8093.6	3337.2	2018.9	1827.6	1783.6	1742.3	1703.5	1646.6	1582.0
12583.8	32.5°	10950.0	8440.0	3107.2	1943.9	1757.8	1711.3	1662.2	1615.6	1553.6	1489.0
13922.8	35°	11958.2	8858.8	2972.7	1892.2	1703.5	1641.5	1587.2	1535.5	1489.0	1432.1
15378.1	37.5°	13051.6	9303.4	2931.4	1866.4	1667.3	1571.7	1509.6	1473.4	1468.3	1434.7
16952.4	40°	14248.5	9830.7	2962.4	1850.9	1628.5	1504.5	1437.3	1429.5	1442.4	1383.0
18635.2	42.5°	15515.2	10456.3	3014.1	1832.8	1574.3	1437.3	1372.6	1372.6	1362.3	1279.6
20413.7	45°	16885.2	11177.5	3065.8	1788.8	1509.6	1370.0	1320.9	1302.8	1258.9	1178.8
22202.5	47.5°	18265.6	11911.7	3104.6	1708.7	1432.1	1313.2	1269.2	1227.9	1163.2	1090.9
23957.8	50°	19576.2	12570.8	3063.2	1589.8	1344.2	1258.9	1212.4	1155.5	1085.7	1036.6
25619.9	52.5°	20747.2	13142.1	2887.4	1450.2	1251.1	1202.0	1160.7	1101.2	1044.3	992.6
27119.2	55°	21765.7	13604.8	2577.2	1318.3	1168.4	1152.9	1111.5	1036.6	959.0	915.1
28605.6	57.5°	22742.8	13956.4	2189.5	1209.8	1093.5	1098.6	1036.6	969.4	897.0	850.5
30608.9	60°	24043.1	14426.9	1796.6	1109.0	1013.3	1028.8	961.6	912.5	822.0	762.6
34044.4	62.5°	26121.4	15158.4	1426.9	984.9	920.3	925.4	897.0	837.5	729.0	659.2
36590.6	65°	27770.6	14889.6	1124.5	850.5	814.3	822.0	822.0	757.4	641.1	560.9
36727.6	67.5°	27584.5	12749.2	897.0	718.6	713.5	718.6	736.7	682.4	568.7	504.1
33930.7	70°	25410.5	10140.9	718.6	597.1	620.4	607.5	659.2	623.0	511.8	447.2
26304.9	72.5°	20734.3	7305.2	548.0	493.7	475.6	496.3	594.5	560.9	426.5	354.1
13933.1	75°	12115.9	3898.2	408.4	390.3	343.8	413.6	527.3	478.2	325.7	261.1
4270.4	77.5°	3944.7	1359.7	299.9	286.9	255.9	333.5	449.8	403.3	266.3	206.8
1251.1	80°	1057.3	411.0	204.2	188.7	165.4	248.2	356.7	320.5	191.3	134.4
537.7	82.5°	423.9	173.2	118.9	106.0	90.5	170.6	281.8	258.5	142.2	85.3
168.0	85°	137.0	56.9	43.9	33.6	41.4	106.0	168.0	175.8	100.8	43.9
25.8	87.5°	18.1	7.8	7.8	10.3	7.8	18.1	51.7	49.1	28.4	5.2
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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<u>180°</u>
5948.1
5245.0
4244.6
3282.9
2680.6
2460.9
2386.0
2300.6
2181.7
2029.2
1863.8
1703.5
1576.8
1491.5
1426.9
1432.1
1385.6
1279.6
1176.2
1088.3
1028.8
987.5
909.9
845.3
754.8
654.0
553.2
493.7
439.4
346.4
253.3
199.0
131.8
85.3
33.6
0.0
0.0

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