

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: P942694

Luminaire Tested: **GALN-SB6D-827-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942694
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-SB6D-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 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: 39183 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

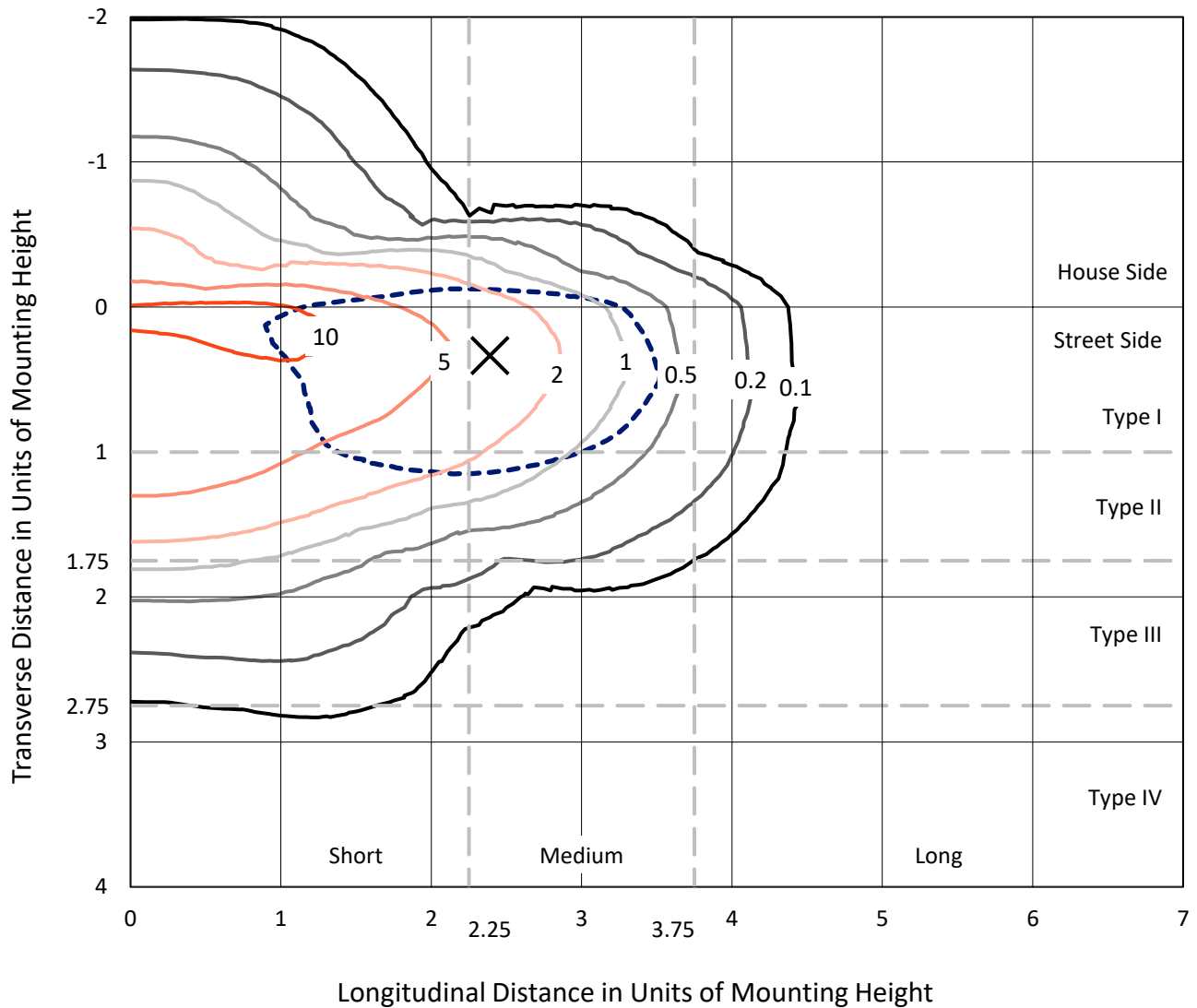
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

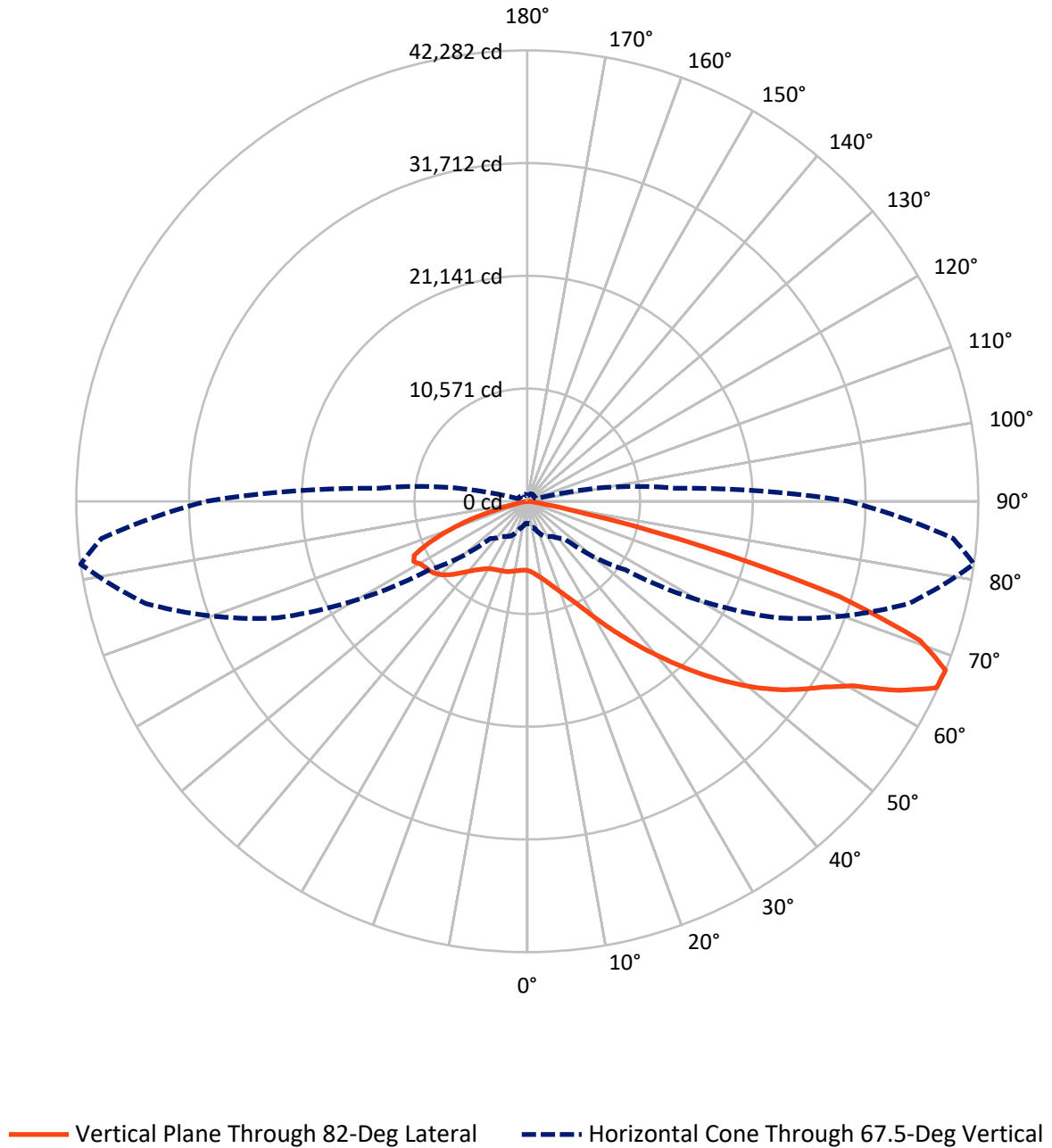
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7097.7	0.0	7097.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	32085.3	0.0	32085.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	39183.0	0.0	39183.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.3	1.5
10°-20°	1502.8	3.8
20°-30°	2407.1	6.1
30°-40°	4256.4	10.9
40°-50°	7457.7	19.0
50°-60°	9946.5	25.4
60°-70°	9259.6	23.6
70°-80°	3553.8	9.1
80°-90°	220.7	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°	39183.0	100.0
0°-180°	39183.0	100.0

Coefficient of Utilization



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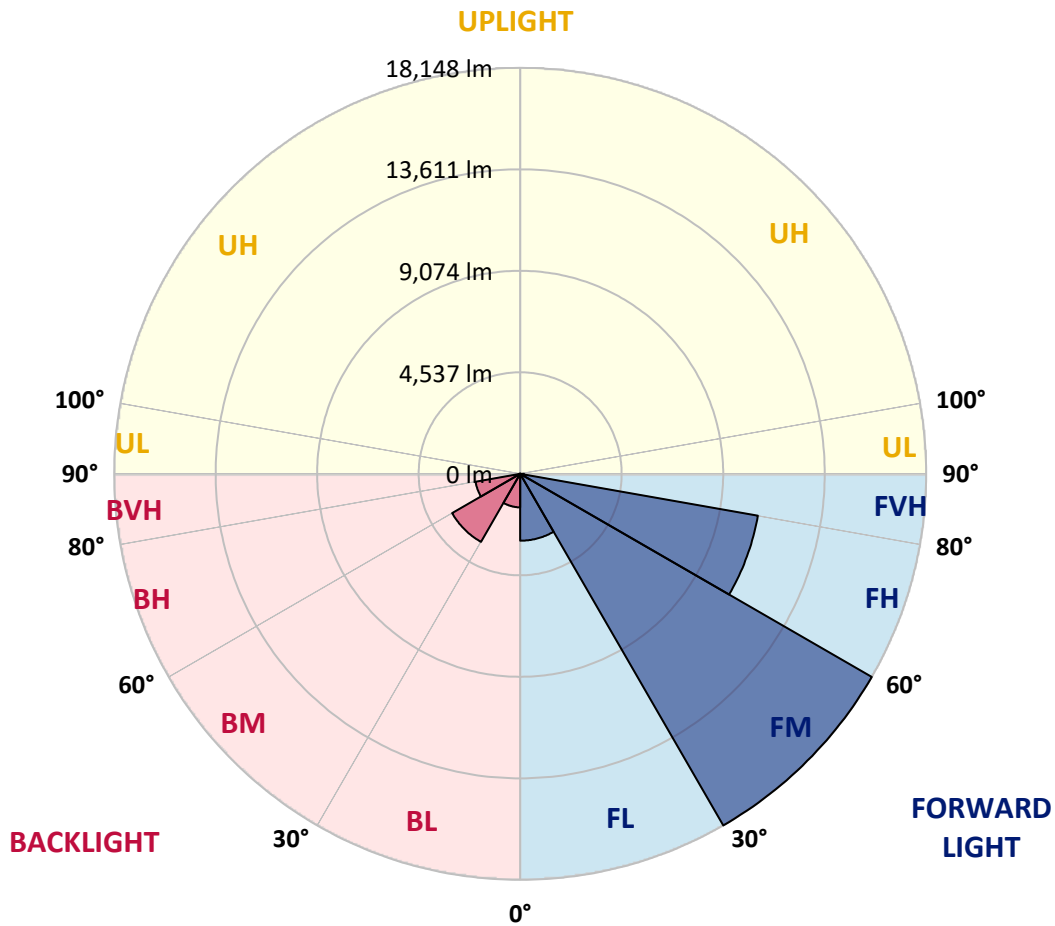
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2989.2	7.6			
FM (30°-60°)	18148.0	46.3			
FH (60°-80°)	10787.7	27.5			G4/12000
FVH (80°-90°)	160.5	0.4			G2/225
BL (0°-30°)	1499.0	3.8	B3/2500		
BM (30°-60°)	3512.6	9.0	B3/5000		
BH (60°-80°)	2025.8	5.2	B3/2500		G3/2500
BVH (80°-90°)	60.3	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°	6491.3	6491.3	6491.3	6491.3	6491.3	6491.3	6491.3	6491.3	6491.3	6491.3
2.5°	6860.9	6900.4	6877.8	6866.5	6846.8	6818.5	6796.0	6725.4	6652.1	6604.1
5°	6999.1	7038.6	7035.8	7047.0	7061.2	7069.6	7064.0	6985.0	6880.6	6798.8
7.5°	6880.6	6925.7	6962.4	7018.8	7117.6	7222.0	7272.7	7255.8	7148.6	7035.8
10°	6544.9	6592.9	6680.3	6812.9	7021.7	7247.3	7436.4	7523.8	7456.1	7332.0
12.5°	5929.9	5977.9	6149.9	6437.7	6787.5	7179.6	7540.7	7774.9	7791.8	7667.7
15°	5238.7	5286.7	5470.1	5831.2	6364.3	6993.4	7597.2	8040.1	8189.6	8082.4
17.5°	4809.9	4852.3	4990.5	5281.1	5836.8	6621.1	7577.4	8322.2	8663.5	8578.9
20°	4680.2	4716.8	4781.7	4984.8	5447.5	6234.6	7447.6	8587.4	9174.1	9126.2
22.5°	4818.4	4852.3	4872.0	4962.3	5252.8	5980.7	7284.0	8858.2	9766.6	9772.2
25°	5137.2	5171.0	5148.5	5204.9	5331.8	5901.7	7222.0	9177.0	10511.3	10573.4
27.5°	5661.9	5664.7	5611.1	5608.3	5628.0	6020.2	7286.8	9518.3	11450.7	11566.4
30°	6714.2	6671.8	6465.9	6243.0	6141.5	6375.6	7467.4	9921.7	12559.4	12765.4
32.5°	8336.3	8274.2	7896.2	7363.0	6827.0	6948.3	7791.8	10381.6	13766.9	14139.2
35°	10096.6	10079.7	9684.8	8892.0	7955.4	7763.6	8319.4	10985.3	15084.3	15676.7
37.5°	11732.9	11724.4	11498.7	10564.9	9425.2	8900.5	9165.7	11775.2	16494.8	17352.4
40°	13228.0	13253.4	13027.7	12192.7	11044.5	10359.0	10316.7	12751.3	18063.4	19177.7
42.5°	14520.1	14548.3	14319.8	13702.0	12644.1	11972.6	11730.0	13947.4	19595.2	21138.3
45°	15397.4	15572.3	15538.5	15044.8	14285.9	13589.1	13428.3	15448.2	21341.4	23217.5
47.5°	15645.7	15806.5	16060.4	16128.1	15665.4	14979.9	15171.7	17256.5	23107.4	25299.4
50°	15033.5	15183.0	15710.6	16413.0	16734.6	16523.0	16867.2	19194.6	24915.7	27375.7
52.5°	13826.1	13978.4	14644.2	15755.7	17067.5	17733.3	18568.3	21104.5	26667.6	29342.0
55°	12079.8	12240.7	13095.4	14353.6	16432.8	18232.6	19987.3	23011.5	28272.8	31110.8
57.5°	9704.5	9823.0	10711.6	12472.0	14836.0	17736.1	21033.9	25093.5	29784.9	32848.6
60°	6324.9	6429.2	7461.7	9425.2	12189.9	16077.3	21242.7	27415.2	31793.5	35108.3
62.5°	4206.2	4276.8	4888.9	6330.5	8584.5	12892.3	20021.2	29268.7	34738.7	39040.9
65°	2886.0	2956.5	3568.7	4573.0	5546.2	8528.1	16508.9	29023.2	37407.5	42163.8
67.5°	2059.4	2118.6	2637.7	3585.6	4014.4	4953.8	11191.2	25886.2	37023.8	42282.3
70°	1475.4	1509.3	1938.1	2792.9	3190.6	2976.2	6223.3	19798.3	32417.0	39043.7
72.5°	1032.5	1043.8	1345.7	2127.1	2570.0	2172.2	2962.1	13199.8	24518.0	30645.4
75°	699.6	713.7	905.6	1560.1	2062.2	1658.8	1568.5	7078.1	14393.1	16963.1
77.5°	428.8	434.4	584.0	1066.4	1543.1	1263.8	1009.9	2998.8	5568.8	5467.2
80°	242.6	242.6	372.4	663.0	1052.3	815.3	708.1	1275.1	1763.2	1548.8
82.5°	135.4	138.2	270.8	411.9	696.8	482.4	389.3	589.6	761.7	674.2
85°	56.4	62.1	166.4	194.7	332.9	239.8	158.0	248.3	282.1	251.1
87.5°	5.6	8.5	50.8	36.7	39.5	48.0	22.6	48.0	39.5	39.5
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°
6491.3	0°	6491.3	6491.3	6491.3	6491.3	6491.3	6491.3	6491.3	6491.3	6491.3	6491.3
6587.2	2.5°	6533.6	6491.3	6384.1	6260.0	6096.3	6017.4	5910.2	5836.8	5774.7	5780.4
6750.8	5°	6660.6	6553.4	6313.6	6014.5	5642.2	5377.0	5094.9	4900.2	4742.2	4708.4
6976.5	7.5°	6835.5	6666.2	6245.9	5707.0	5077.9	4601.2	4175.2	3901.5	3706.9	3644.8
7250.2	10°	7061.2	6815.7	6158.4	5320.6	4415.0	3808.5	3351.4	3137.0	3004.4	2959.3
7571.8	12.5°	7323.5	6987.8	6042.7	4849.4	3732.3	3148.3	2857.8	2750.5	2708.2	2694.1
7966.7	15°	7653.6	7202.2	5867.8	4290.9	3154.0	2744.9	2620.8	2606.7	2612.3	2606.7
8440.7	17.5°	8045.7	7436.4	5582.9	3715.4	2764.7	2539.0	2493.8	2505.1	2519.2	2516.4
8971.0	20°	8474.5	7667.7	5219.0	3204.7	2499.5	2392.3	2366.9	2378.2	2389.5	2383.8
9583.2	22.5°	8962.6	7915.9	4815.6	2807.0	2321.7	2256.9	2228.7	2231.5	2231.5	2220.2
10359.0	25°	9546.5	8189.6	4392.4	2524.9	2186.3	2135.6	2101.7	2090.4	2073.5	2039.6
11301.2	27.5°	10243.3	8480.2	3986.2	2327.4	2079.1	2031.2	1991.7	1963.5	1921.2	1864.7
12432.5	30°	11027.6	8832.8	3642.0	2203.3	1994.5	1946.5	1901.4	1859.1	1797.0	1726.5
13733.0	32.5°	11950.1	9210.8	3390.9	2121.4	1918.3	1867.6	1814.0	1763.2	1695.5	1624.9
15194.3	35°	13050.3	9667.8	3244.2	2065.0	1859.1	1791.4	1732.1	1675.7	1624.9	1562.9
16782.6	37.5°	14243.6	10153.1	3199.1	2036.8	1819.6	1715.2	1647.5	1608.0	1602.4	1565.7
18500.6	40°	15549.8	10728.6	3233.0	2019.9	1777.3	1641.9	1568.5	1560.1	1574.2	1509.3
20337.1	42.5°	16932.1	11411.3	3289.4	2000.1	1718.0	1568.5	1498.0	1498.0	1486.7	1396.4
22278.0	45°	18427.3	12198.3	3345.8	1952.2	1647.5	1495.2	1441.6	1421.8	1373.9	1286.4
24230.2	47.5°	19933.7	12999.5	3388.1	1864.7	1562.9	1433.1	1385.1	1340.0	1269.5	1190.5
26145.7	50°	21364.0	13718.9	3343.0	1735.0	1467.0	1373.9	1323.1	1261.0	1184.9	1131.3
27959.7	52.5°	22642.0	14342.4	3151.1	1582.6	1365.4	1311.8	1266.7	1201.8	1139.7	1083.3
29595.9	55°	23753.5	14847.3	2812.6	1438.7	1275.1	1258.2	1213.1	1131.3	1046.6	998.7
31218.0	57.5°	24819.8	15231.0	2389.5	1320.3	1193.3	1199.0	1131.3	1057.9	978.9	928.1
33404.4	60°	26238.8	15744.4	1960.6	1210.2	1105.9	1122.8	1049.4	995.8	897.1	832.2
37153.6	62.5°	28507.0	16542.8	1557.2	1074.8	1004.3	1009.9	978.9	914.0	795.5	719.4
39932.3	65°	30306.8	16249.4	1227.2	928.1	888.6	897.1	897.1	826.6	699.6	612.2
40081.9	67.5°	30103.7	13913.5	978.9	784.3	778.6	784.3	804.0	744.8	620.6	550.1
37029.5	70°	27731.2	11067.1	784.3	651.7	677.1	663.0	719.4	679.9	558.6	488.0
28707.3	72.5°	22627.9	7972.4	598.1	538.8	519.1	541.6	648.8	612.2	465.5	386.5
15205.6	75°	13222.4	4254.2	445.7	426.0	375.2	451.4	575.5	521.9	355.5	284.9
4660.4	77.5°	4305.0	1483.9	327.2	313.1	279.3	363.9	490.9	440.1	290.6	225.7
1365.4	80°	1153.8	448.6	222.9	205.9	180.5	270.8	389.3	349.8	208.8	146.7
586.8	82.5°	462.7	189.0	129.8	115.7	98.7	186.2	307.5	282.1	155.2	93.1
183.4	85°	149.5	62.1	48.0	36.7	45.1	115.7	183.4	191.8	110.0	48.0
28.2	87.5°	19.7	8.5	8.5	11.3	8.5	19.7	56.4	53.6	31.0	5.6
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>
6491.3
5724.0
4632.2
3582.8
2925.5
2685.7
2603.9
2510.8
2381.0
2214.5
2034.0
1859.1
1720.9
1627.8
1557.2
1562.9
1512.1
1396.4
1283.6
1187.7
1122.8
1077.7
993.0
922.5
823.8
713.7
603.7
538.8
479.6
378.0
276.5
217.2
143.9
93.1
36.7
0.0
0.0

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