

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: P951716

Luminaire Tested: **GALN-SB5D-740-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951716
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41891 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

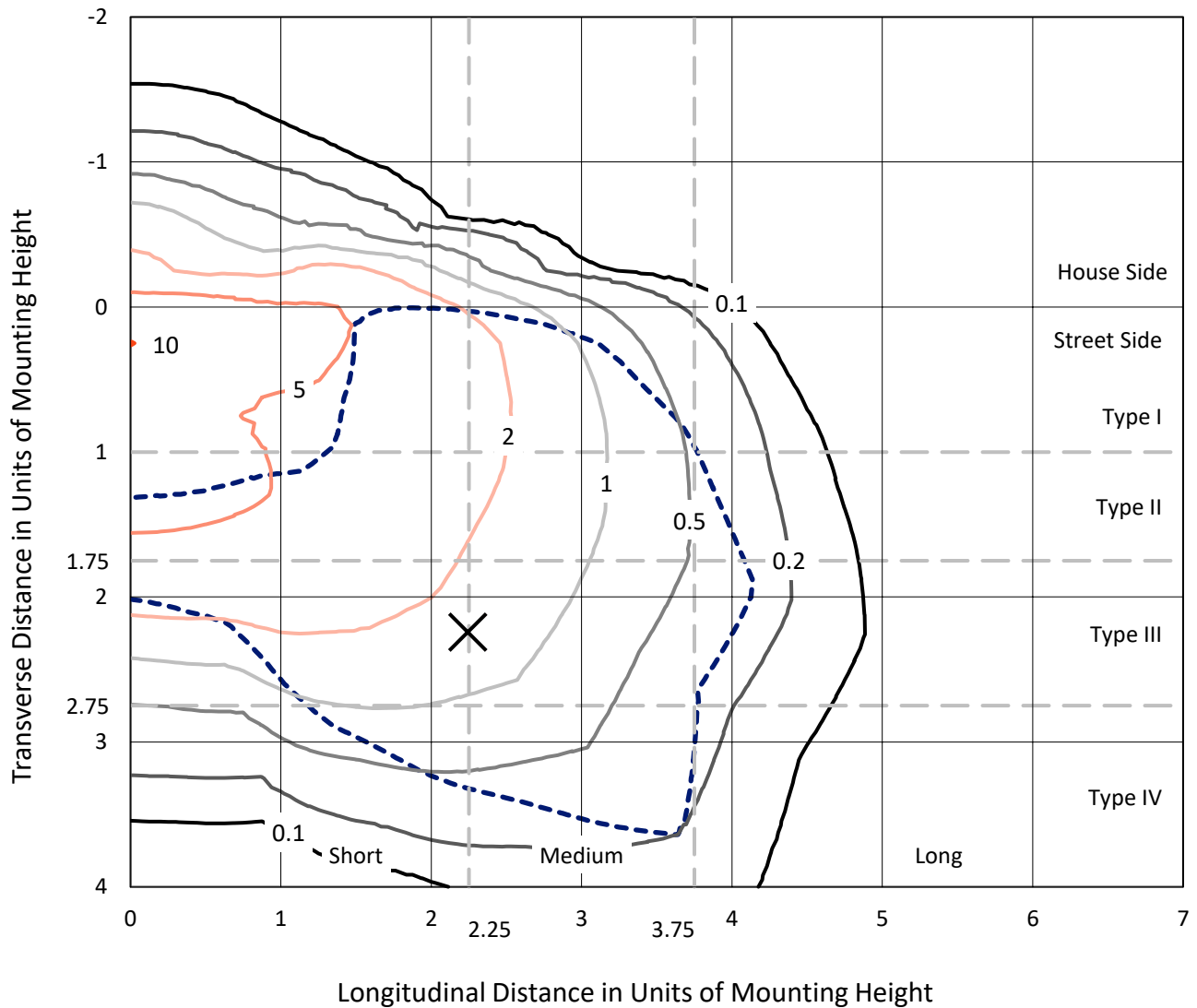
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

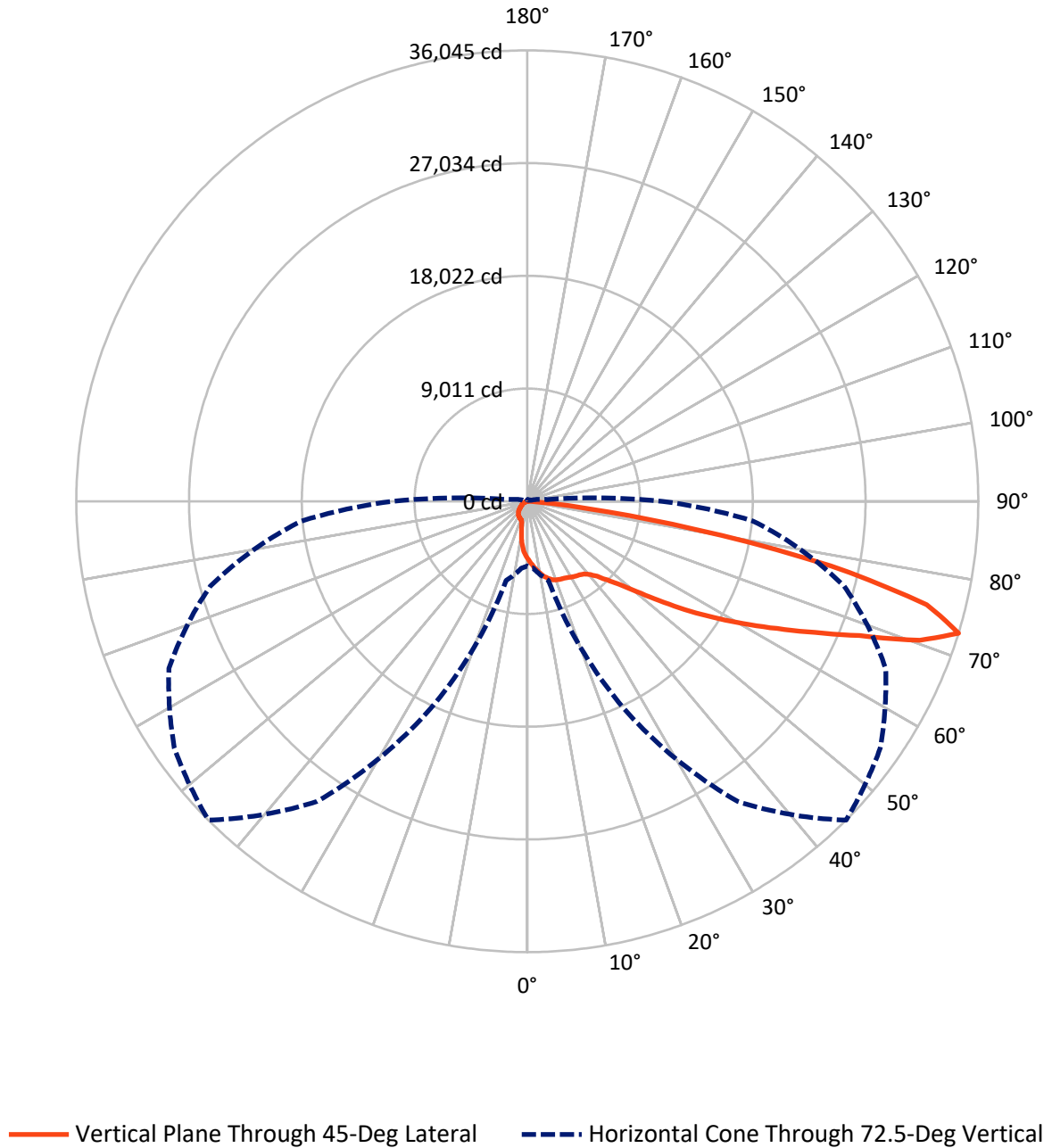
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4401.6	0.0	4401.6
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	37489.4	0.0	37489.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	41891.0	0.0	41891.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.4	1.0
10°-20°	1263.7	3.0
20°-30°	2075.2	5.0
30°-40°	2943.2	7.0
40°-50°	4864.7	11.6
50°-60°	8738.9	20.9
60°-70°	12134.5	29.0
70°-80°	8802.0	21.0
80°-90°	636.3	1.5
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°	41891.0	100.0
0°-180°	41891.0	100.0

Coefficient of Utilization



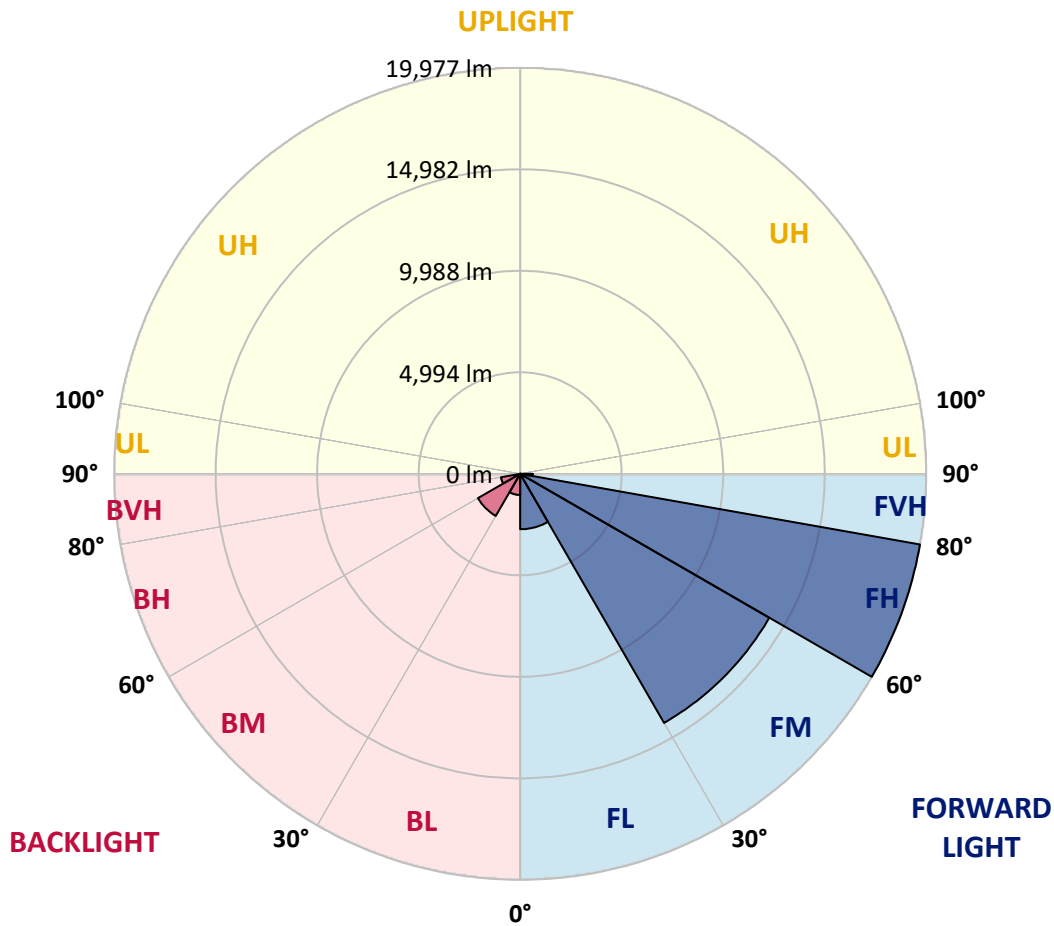
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2728.8	6.5			
FM (30°-60°)	14153.0	33.8			
FH (60°-80°)	19976.6	47.7			G5
FVH (80°-90°)	631.0	1.5			G4/750
BL (0°-30°)	1042.6	2.5	B3/2500		
BM (30°-60°)	2393.8	5.7	B2/2500		
BH (60°-80°)	959.8	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.4	0.0			G0/10
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°	35°	45°	46°	55°	65°	75°
0°	4589.2	4589.2	4589.2	4589.2	4589.2	4589.2	4589.2	4589.2	4589.2	4589.2
2.5°	5012.4	5021.0	5015.3	4981.0	4923.8	4892.3	4875.2	4818.0	4780.8	4715.1
5°	5472.8	5507.1	5487.1	5418.5	5309.8	5232.6	5209.7	5092.5	4986.7	4863.7
7.5°	5961.7	5978.9	5941.7	5853.1	5707.3	5575.7	5555.7	5392.7	5224.0	5035.3
10°	6384.9	6404.9	6347.7	6219.1	6053.2	5890.2	5861.7	5681.5	5481.4	5249.8
12.5°	6739.5	6759.5	6685.1	6530.7	6347.7	6179.0	6150.5	5961.7	5741.6	5484.2
15°	7008.3	7045.4	6945.3	6779.5	6582.2	6413.5	6399.2	6213.4	5998.9	5713.0
17.5°	7165.5	7202.7	7108.3	6908.2	6739.5	6596.5	6579.4	6424.9	6224.8	5950.3
20°	7191.3	7225.6	7125.5	6951.1	6811.0	6696.6	6688.0	6576.5	6430.7	6167.6
22.5°	7114.0	7156.9	7065.4	6925.3	6828.1	6768.1	6756.6	6693.7	6610.8	6387.8
25°	7034.0	7068.3	6999.7	6876.7	6825.3	6819.5	6828.1	6816.7	6799.5	6610.8
27.5°	7028.3	7065.4	6988.2	6871.0	6842.4	6902.5	6911.0	6965.4	6979.7	6813.8
30°	7076.9	7102.6	7028.3	6905.3	6891.0	7028.3	7031.1	7128.3	7151.2	6985.4
32.5°	7182.7	7211.3	7136.9	6956.8	6936.8	7128.3	7136.9	7265.6	7302.8	7168.4
35°	7431.4	7465.7	7380.0	7099.8	7028.3	7222.7	7248.4	7400.0	7474.3	7362.8
37.5°	8051.9	7951.8	7834.6	7388.5	7237.0	7371.4	7414.3	7591.6	7723.1	7594.4
40°	9593.1	9278.6	8912.6	7880.4	7603.0	7688.8	7723.1	7900.4	8080.5	7954.7
42.5°	11906.3	11534.6	10945.6	9012.7	8154.9	8197.7	8223.5	8377.9	8632.4	8532.3
45°	13967.9	13833.5	13233.0	10945.6	9187.1	8975.5	9006.9	9087.0	9461.6	9424.4
47.5°	15552.0	15474.8	15011.6	13164.4	10931.3	9927.6	10016.3	10053.5	10593.9	10725.4
50°	16770.1	16741.5	16326.9	15137.4	13210.2	11331.6	11363.0	11283.0	12092.2	12418.1
52.5°	17919.5	18016.7	17710.8	16970.2	15643.5	13170.1	13164.4	12787.0	13879.3	14371.1
55°	18957.5	18991.8	19023.2	18840.2	18091.1	15263.2	15208.9	14591.2	15952.3	16461.2
57.5°	19932.5	19946.8	20227.0	20601.6	20638.7	17510.6	17410.5	16670.0	18216.9	18580.0
60°	20587.3	20653.0	21244.9	22285.7	22740.4	19829.6	19775.2	19020.4	20521.5	20690.2
62.5°	19643.7	20044.0	21536.6	23601.0	24724.8	22400.1	22374.4	21665.3	22946.2	22809.0
65°	15900.8	16578.5	19203.4	24490.3	26672.0	25270.9	25308.1	24553.2	25436.7	24990.7
67.5°	11122.9	11837.7	14942.9	24561.8	28847.9	28642.1	28856.5	27672.7	28081.6	27080.9
70°	7691.6	8060.5	10082.0	23023.4	30543.5	33285.6	33279.9	31504.3	30712.2	28033.0
72.5°	5172.6	5364.1	6547.9	18265.5	29296.8	36044.9	35879.1	34432.2	31598.6	26217.3
75°	2181.7	2321.8	3030.9	10265.0	23177.8	32976.8	32527.9	30429.1	28075.9	20644.5
77.5°	692.0	752.0	1195.2	3674.3	12767.0	24787.7	24313.0	19003.2	18817.3	10356.5
80°	328.8	383.2	671.9	1475.4	5023.9	13481.8	13416.0	8620.9	8094.8	2796.4
82.5°	143.0	168.7	371.7	789.2	2247.4	4809.4	4906.6	2933.7	2427.6	1060.8
85°	45.7	60.0	171.6	363.1	949.3	1195.2	1180.9	697.7	977.9	577.6
87.5°	0.0	0.0	57.2	82.9	97.2	68.6	77.2	60.0	271.6	160.1
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°
4589.2	0°	4589.2	4589.2	4589.2	4589.2	4589.2	4589.2	4589.2	4589.2	4589.2	4589.2
4646.4	2.5°	4612.1	4566.4	4486.3	4412.0	4346.2	4280.4	4240.4	4183.2	4177.5	4177.5
4720.8	5°	4643.6	4569.2	4426.3	4274.7	4100.3	3934.5	3768.6	3608.5	3557.0	3519.9
4840.9	7.5°	4735.1	4617.8	4392.0	4103.2	3771.5	3408.3	3153.9	2879.4	2773.6	2716.4
5001.0	10°	4866.6	4706.5	4363.4	3857.3	3319.7	2825.0	2461.9	2164.5	2050.2	2001.5
5175.4	12.5°	5012.4	4815.1	4311.9	3551.3	2825.0	2233.1	1878.6	1741.3	1724.2	1724.2
5384.1	15°	5186.9	4946.7	4223.3	3191.0	2307.5	1767.1	1641.3	1647.0	1664.1	1675.6
5587.2	17.5°	5367.0	5086.8	4083.1	2787.9	1850.0	1589.8	1592.7	1601.2	1615.5	1627.0
5807.3	20°	5561.4	5226.9	3897.3	2359.0	1586.9	1538.3	1546.9	1555.5	1566.9	1572.6
6013.2	22.5°	5770.2	5358.4	3677.1	1938.6	1498.3	1495.4	1498.3	1506.9	1521.2	1521.2
6253.4	25°	5993.2	5504.2	3425.5	1632.7	1452.5	1452.5	1458.3	1464.0	1475.4	1475.4
6485.0	27.5°	6221.9	5638.6	3159.6	1472.6	1412.5	1409.7	1409.7	1418.2	1424.0	1426.8
6713.7	30°	6473.6	5795.9	2893.7	1438.3	1381.1	1366.8	1358.2	1363.9	1369.6	1372.5
6953.9	32.5°	6730.9	5947.4	2656.3	1452.5	1349.6	1323.9	1295.3	1289.6	1289.6	1301.0
7202.7	35°	7016.8	6113.3	2473.3	1501.2	1332.5	1261.0	1215.2	1189.5	1192.3	1209.5
7500.1	37.5°	7360.0	6313.4	2338.9	1544.0	1321.0	1189.5	1115.1	1083.7	1063.7	1083.7
7908.9	40°	7808.9	6607.9	2241.7	1578.4	1306.7	1106.6	1006.5	955.0	917.8	929.3
8543.7	42.5°	8469.4	7071.2	2204.6	1581.2	1275.3	1009.3	895.0	826.4	772.0	774.9
9498.7	45°	9395.8	7803.2	2396.1	1544.0	1206.6	903.6	777.7	686.2	651.9	643.4
10925.6	47.5°	10665.4	8869.7	2839.3	1466.8	1106.6	800.6	663.4	586.2	560.4	546.1
12798.4	50°	12366.7	10239.3	3331.1	1381.1	1006.5	703.4	569.0	520.4	503.2	488.9
15020.1	52.5°	14339.6	11629.0	3734.3	1295.3	906.4	617.6	509.0	480.4	466.1	454.6
17164.6	55°	16149.6	12586.8	3711.4	1203.8	809.2	549.0	466.1	448.9	431.8	420.3
19011.8	57.5°	17276.2	12721.2	3059.5	1103.7	697.7	494.7	426.0	414.6	394.6	380.3
20610.2	60°	17793.7	11954.9	2144.5	972.2	586.2	443.2	383.2	377.4	351.7	331.7
22122.7	62.5°	17888.1	10531.0	1429.7	809.2	488.9	394.6	340.3	331.7	297.4	263.1
23352.3	65°	17504.9	8495.1	989.3	631.9	417.5	343.1	291.7	274.5	237.3	203.0
23643.9	67.5°	16292.5	5964.6	689.1	454.6	354.6	271.6	231.6	225.9	197.3	168.7
22157.1	70°	14070.8	3399.8	460.4	340.3	280.2	185.9	183.0	188.7	160.1	137.2
18102.5	72.5°	10788.3	1555.5	285.9	248.8	191.6	125.8	145.8	148.7	123.0	102.9
11294.4	75°	6350.6	666.2	180.1	160.1	97.2	82.9	105.8	108.7	82.9	65.8
4128.9	77.5°	2161.7	251.6	114.4	94.4	48.6	45.7	68.6	68.6	45.7	25.7
829.2	80°	491.8	94.4	57.2	37.2	22.9	20.0	22.9	20.0	11.4	2.9
254.5	82.5°	140.1	37.2	22.9	14.3	8.6	8.6	2.9	0.0	0.0	0.0
88.6	85°	40.0	17.2	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
31.5	87.5°	17.2	2.9	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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<u>180°</u>
4589.2
4191.8
3537.0
2725.0
2001.5
1724.2
1675.6
1627.0
1575.5
1526.9
1478.3
1429.7
1378.2
1309.6
1218.1
1078.0
923.6
763.4
631.9
537.6
486.1
451.8
414.6
377.4
326.0
245.9
191.6
160.1
125.8
91.5
57.2
20.0
0.0
0.0
0.0
0.0
0.0

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