

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: P946844

Luminaire Tested: **GALN-SB2B-840-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946844
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-SB2B-840-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 4000K, 450mA 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: 8297 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

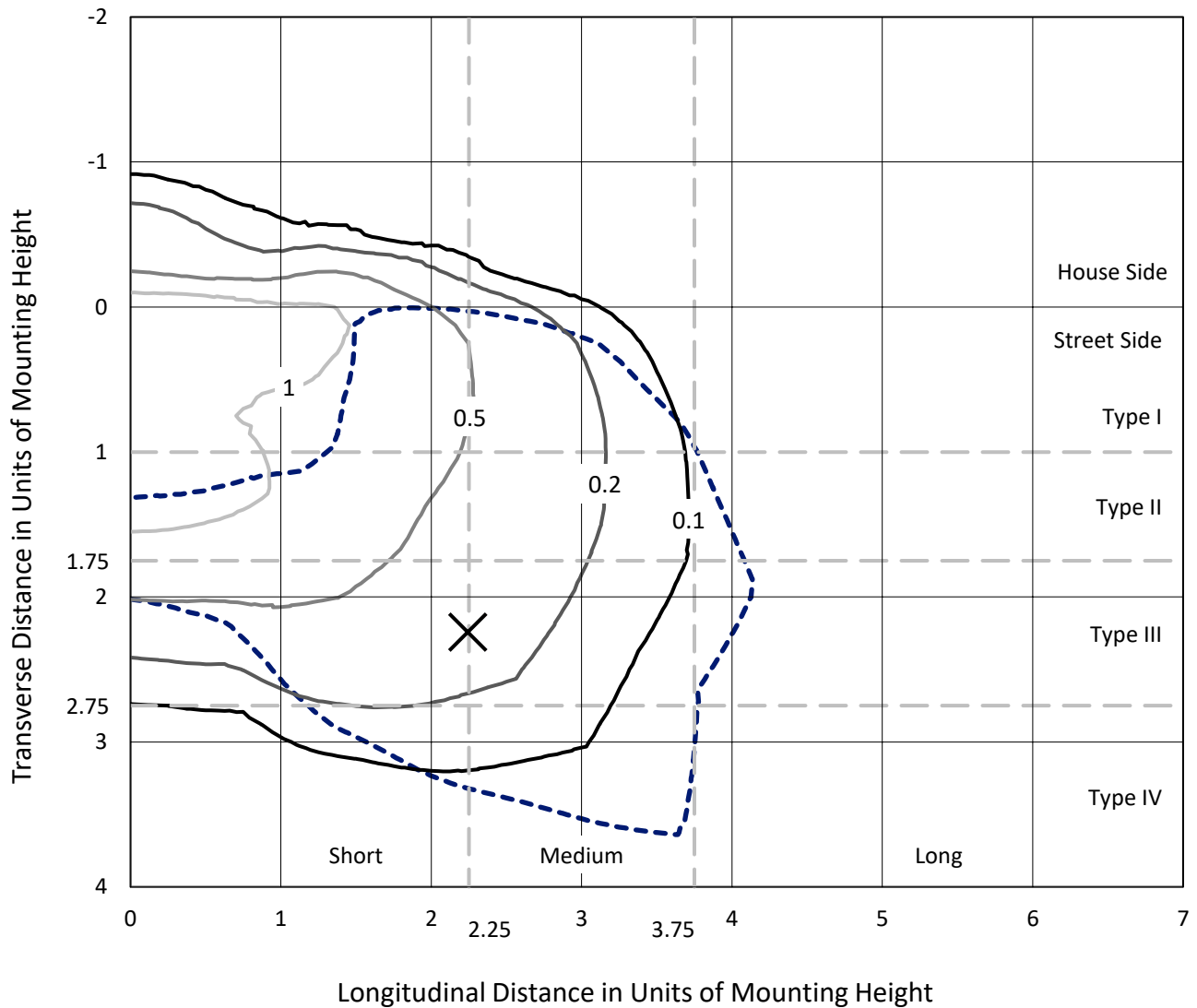
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

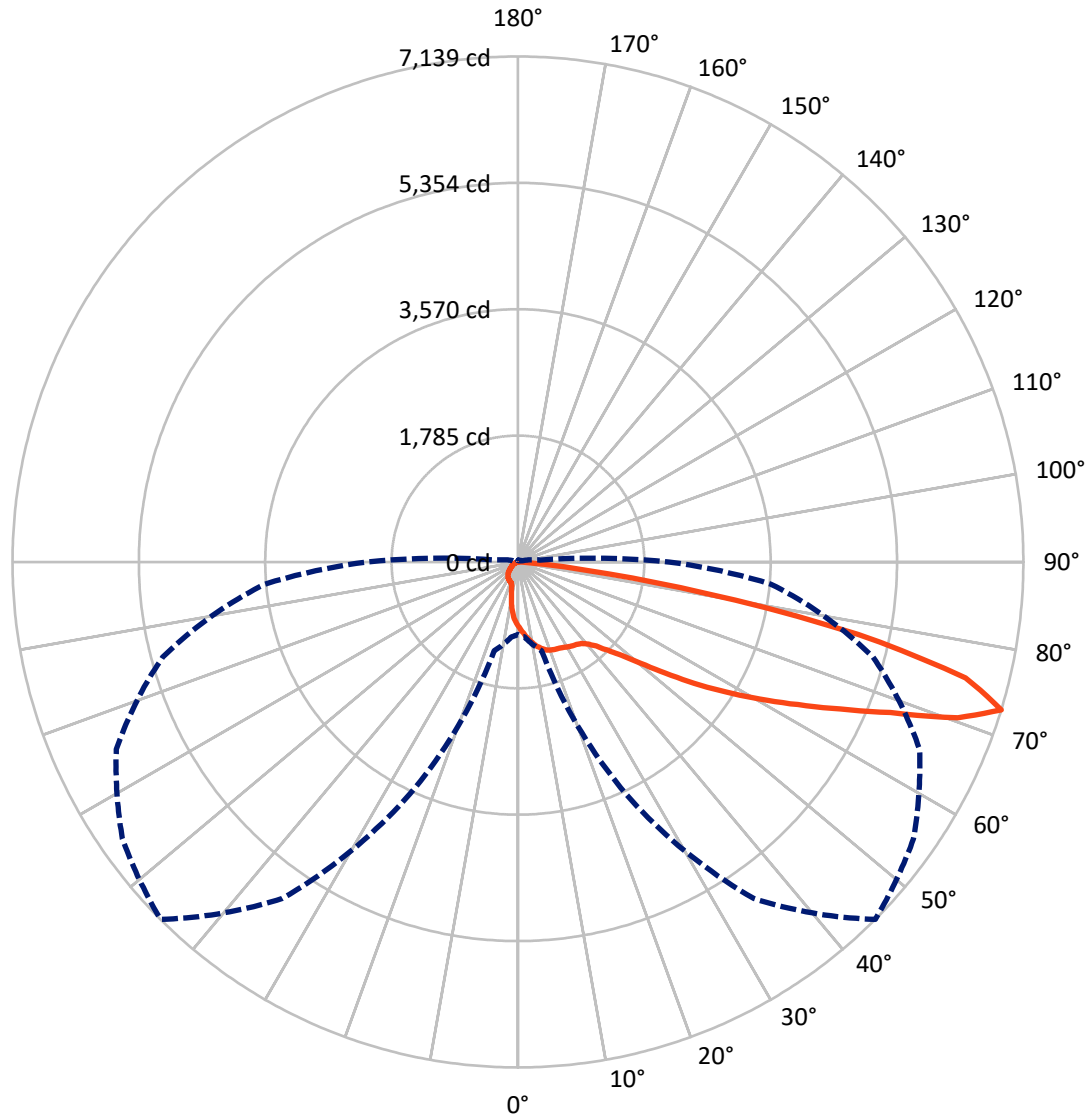
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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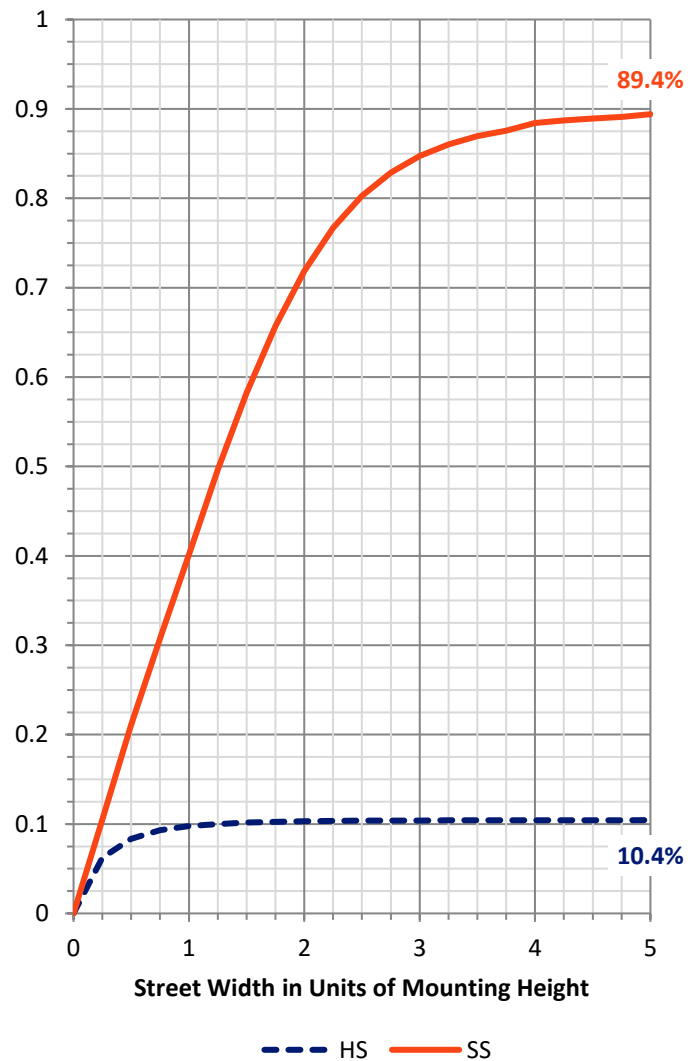
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	871.8	0.0	871.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	7425.2	0.0	7425.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	8297.0	0.0	8297.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.6	1.0
10°-20°	250.3	3.0
20°-30°	411.0	5.0
30°-40°	582.9	7.0
40°-50°	963.5	11.6
50°-60°	1730.8	20.9
60°-70°	2403.4	29.0
70°-80°	1743.3	21.0
80°-90°	126.0	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°	8297.0	100.0
0°-180°	8297.0	100.0

Coefficient of Utilization



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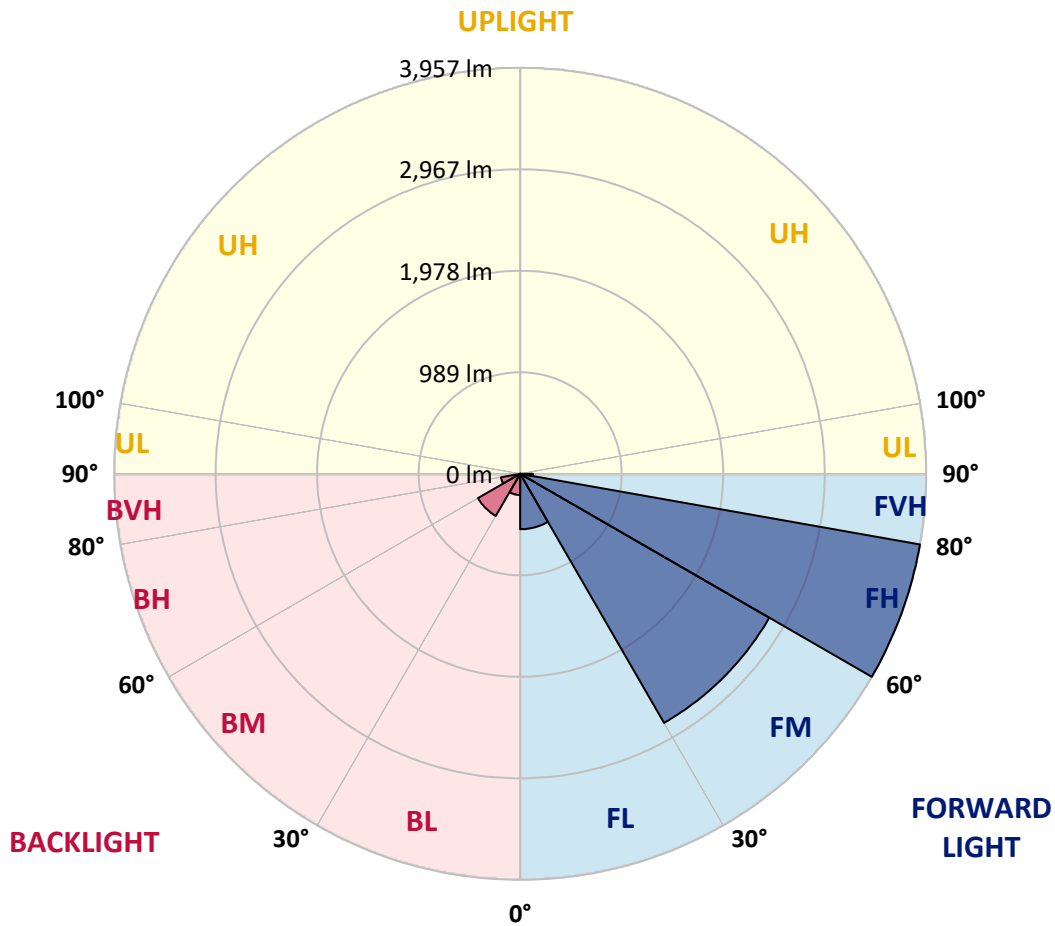
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	540.5	6.5			
FM (30°-60°)	2803.2	33.8			
FH (60°-80°)	3956.6	47.7			G2/5000
FVH (80°-90°)	125.0	1.5			G2/225
BL (0°-30°)	206.5	2.5	B1/500		
BM (30°-60°)	474.1	5.7	B1/1000		
BH (60°-80°)	190.1	2.3	B1/500		G1/500
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	909.0	909.0	909.0	909.0	909.0	909.0	909.0	909.0	909.0	909.0
2.5°	992.8	994.5	993.3	986.5	975.2	969.0	965.6	954.3	946.9	933.9
5°	1083.9	1090.7	1086.8	1073.2	1051.7	1036.4	1031.8	1008.6	987.7	963.3
7.5°	1180.8	1184.2	1176.8	1159.3	1130.4	1104.3	1100.4	1068.1	1034.7	997.3
10°	1264.6	1268.6	1257.2	1231.8	1198.9	1166.6	1161.0	1125.3	1085.6	1039.8
12.5°	1334.8	1338.8	1324.1	1293.5	1257.2	1223.8	1218.2	1180.8	1137.2	1086.2
15°	1388.1	1395.4	1375.6	1342.8	1303.7	1270.3	1267.4	1230.6	1188.2	1131.5
17.5°	1419.2	1426.6	1407.9	1368.2	1334.8	1306.5	1303.1	1272.5	1232.9	1178.5
20°	1424.3	1431.1	1411.3	1376.7	1349.0	1326.3	1324.6	1302.6	1273.7	1221.6
22.5°	1409.0	1417.5	1399.4	1371.6	1352.4	1340.5	1338.2	1325.8	1309.3	1265.2
25°	1393.2	1400.0	1386.4	1362.0	1351.8	1350.7	1352.4	1350.1	1346.7	1309.3
27.5°	1392.0	1399.4	1384.1	1360.9	1355.2	1367.1	1368.8	1379.6	1382.4	1349.6
30°	1401.7	1406.8	1392.0	1367.7	1364.8	1392.0	1392.6	1411.9	1416.4	1383.5
32.5°	1422.6	1428.3	1413.6	1377.9	1373.9	1411.9	1413.6	1439.0	1446.4	1419.8
35°	1471.9	1478.7	1461.7	1406.2	1392.0	1430.5	1435.6	1465.7	1480.4	1458.3
37.5°	1594.8	1575.0	1551.7	1463.4	1433.4	1460.0	1468.5	1503.6	1529.6	1504.2
40°	1900.0	1837.7	1765.2	1560.8	1505.9	1522.9	1529.6	1564.8	1600.4	1575.5
42.5°	2358.2	2284.6	2167.9	1785.1	1615.2	1623.7	1628.8	1659.3	1709.7	1689.9
45°	2766.5	2739.9	2621.0	2167.9	1819.6	1777.7	1783.9	1799.8	1874.0	1866.6
47.5°	3080.2	3065.0	2973.2	2607.4	2165.1	1966.3	1983.8	1991.2	2098.2	2124.3
50°	3321.5	3315.8	3233.7	2998.1	2616.4	2244.4	2250.6	2234.7	2395.0	2459.6
52.5°	3549.2	3568.4	3507.8	3361.1	3098.4	2608.5	2607.4	2532.6	2748.9	2846.4
55°	3754.7	3761.5	3767.8	3731.5	3583.1	3023.1	3012.3	2890.0	3159.5	3260.3
57.5°	3947.9	3950.7	4006.2	4080.4	4087.7	3468.2	3448.4	3301.7	3608.1	3680.0
60°	4077.6	4090.6	4207.8	4413.9	4504.0	3927.5	3916.7	3767.2	4064.5	4097.9
62.5°	3890.7	3969.9	4265.6	4674.5	4897.0	4436.6	4431.5	4291.1	4544.8	4517.6
65°	3149.3	3283.6	3803.4	4850.6	5282.7	5005.2	5012.6	4863.0	5038.0	4949.7
67.5°	2203.0	2344.6	2959.6	4864.7	5713.7	5672.9	5715.4	5480.9	5561.9	5363.7
70°	1523.4	1596.5	1996.9	4560.1	6049.5	6592.6	6591.5	6239.8	6082.9	5552.3
72.5°	1024.5	1062.4	1296.9	3617.7	5802.6	7139.1	7106.3	6819.7	6258.5	5192.6
75°	432.1	459.9	600.3	2033.1	4590.6	6531.4	6442.5	6026.8	5560.8	4088.9
77.5°	137.1	148.9	236.7	727.7	2528.6	4909.5	4815.5	3763.8	3727.0	2051.2
80°	65.1	75.9	133.1	292.2	995.0	2670.2	2657.2	1707.5	1603.3	553.9
82.5°	28.3	33.4	73.6	156.3	445.1	952.6	971.8	581.1	480.8	210.1
85°	9.1	11.9	34.0	71.9	188.0	236.7	233.9	138.2	193.7	114.4
87.5°	0.0	0.0	11.3	16.4	19.3	13.6	15.3	11.9	53.8	31.7
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°
909.0	0°	909.0	909.0	909.0	909.0	909.0	909.0	909.0	909.0	909.0	909.0
920.3	2.5°	913.5	904.4	888.6	873.8	860.8	847.8	839.9	828.5	827.4	827.4
935.0	5°	919.7	905.0	876.7	846.7	812.1	779.3	746.4	714.7	704.5	697.1
958.8	7.5°	937.8	914.6	869.9	812.7	747.0	675.1	624.7	570.3	549.3	538.0
990.5	10°	963.9	932.2	864.2	764.0	657.5	559.5	487.6	428.7	406.1	396.4
1025.1	12.5°	992.8	953.7	854.0	703.4	559.5	442.3	372.1	344.9	341.5	341.5
1066.4	15°	1027.3	979.7	836.5	632.0	457.0	350.0	325.1	326.2	329.6	331.9
1106.6	17.5°	1063.0	1007.5	808.7	552.2	366.4	314.9	315.4	317.1	320.0	322.2
1150.2	20°	1101.5	1035.2	771.9	467.2	314.3	304.7	306.4	308.1	310.3	311.5
1191.0	22.5°	1142.8	1061.3	728.3	384.0	296.8	296.2	296.8	298.5	301.3	301.3
1238.6	25°	1187.0	1090.2	678.5	323.4	287.7	287.7	288.8	290.0	292.2	292.2
1284.4	27.5°	1232.3	1116.8	625.8	291.7	279.8	279.2	279.2	280.9	282.0	282.6
1329.7	30°	1282.2	1147.9	573.1	284.9	273.5	270.7	269.0	270.1	271.3	271.8
1377.3	32.5°	1333.1	1178.0	526.1	287.7	267.3	262.2	256.5	255.4	255.4	257.7
1426.6	35°	1389.8	1210.8	489.9	297.3	263.9	249.7	240.7	235.6	236.2	239.6
1485.5	37.5°	1457.7	1250.4	463.3	305.8	261.6	235.6	220.9	214.6	210.7	214.6
1566.5	40°	1546.6	1308.8	444.0	312.6	258.8	219.2	199.3	189.2	181.8	184.1
1692.2	42.5°	1677.5	1400.5	436.6	313.2	252.6	199.9	177.3	163.7	152.9	153.5
1881.3	45°	1860.9	1545.5	474.6	305.8	239.0	179.0	154.0	135.9	129.1	127.4
2163.9	47.5°	2112.4	1756.7	562.4	290.5	219.2	158.6	131.4	116.1	111.0	108.2
2534.9	50°	2449.4	2028.0	659.8	273.5	199.3	139.3	112.7	103.1	99.7	96.8
2974.9	52.5°	2840.1	2303.2	739.6	256.5	179.5	122.3	100.8	95.1	92.3	90.0
3399.7	55°	3198.6	2493.0	735.1	238.4	160.3	108.7	92.3	88.9	85.5	83.2
3765.5	57.5°	3421.7	2519.6	606.0	218.6	138.2	98.0	84.4	82.1	78.2	75.3
4082.1	60°	3524.2	2367.8	424.7	192.6	116.1	87.8	75.9	74.8	69.7	65.7
4381.7	62.5°	3542.9	2085.8	283.2	160.3	96.8	78.2	67.4	65.7	58.9	52.1
4625.2	65°	3467.1	1682.6	195.9	125.2	82.7	68.0	57.8	54.4	47.0	40.2
4683.0	67.5°	3226.9	1181.4	136.5	90.0	70.2	53.8	45.9	44.7	39.1	33.4
4388.5	70°	2786.9	673.4	91.2	67.4	55.5	36.8	36.2	37.4	31.7	27.2
3585.4	72.5°	2136.7	308.1	56.6	49.3	37.9	24.9	28.9	29.4	24.4	20.4
2237.0	75°	1257.8	132.0	35.7	31.7	19.3	16.4	21.0	21.5	16.4	13.0
817.8	77.5°	428.1	49.8	22.7	18.7	9.6	9.1	13.6	13.6	9.1	5.1
164.2	80°	97.4	18.7	11.3	7.4	4.5	4.0	4.5	4.0	2.3	0.6
50.4	82.5°	27.7	7.4	4.5	2.8	1.7	1.7	0.6	0.0	0.0	0.0
17.6	85°	7.9	3.4	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
6.2	87.5°	3.4	0.6	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>
909.0
830.2
700.5
539.7
396.4
341.5
331.9
322.2
312.0
302.4
292.8
283.2
273.0
259.4
241.3
213.5
182.9
151.2
125.2
106.5
96.3
89.5
82.1
74.8
64.6
48.7
37.9
31.7
24.9
18.1
11.3
4.0
0.0
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