

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: P956141

Luminaire Tested: **GALN-SB8D-850-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956141
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8D-850-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66640 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

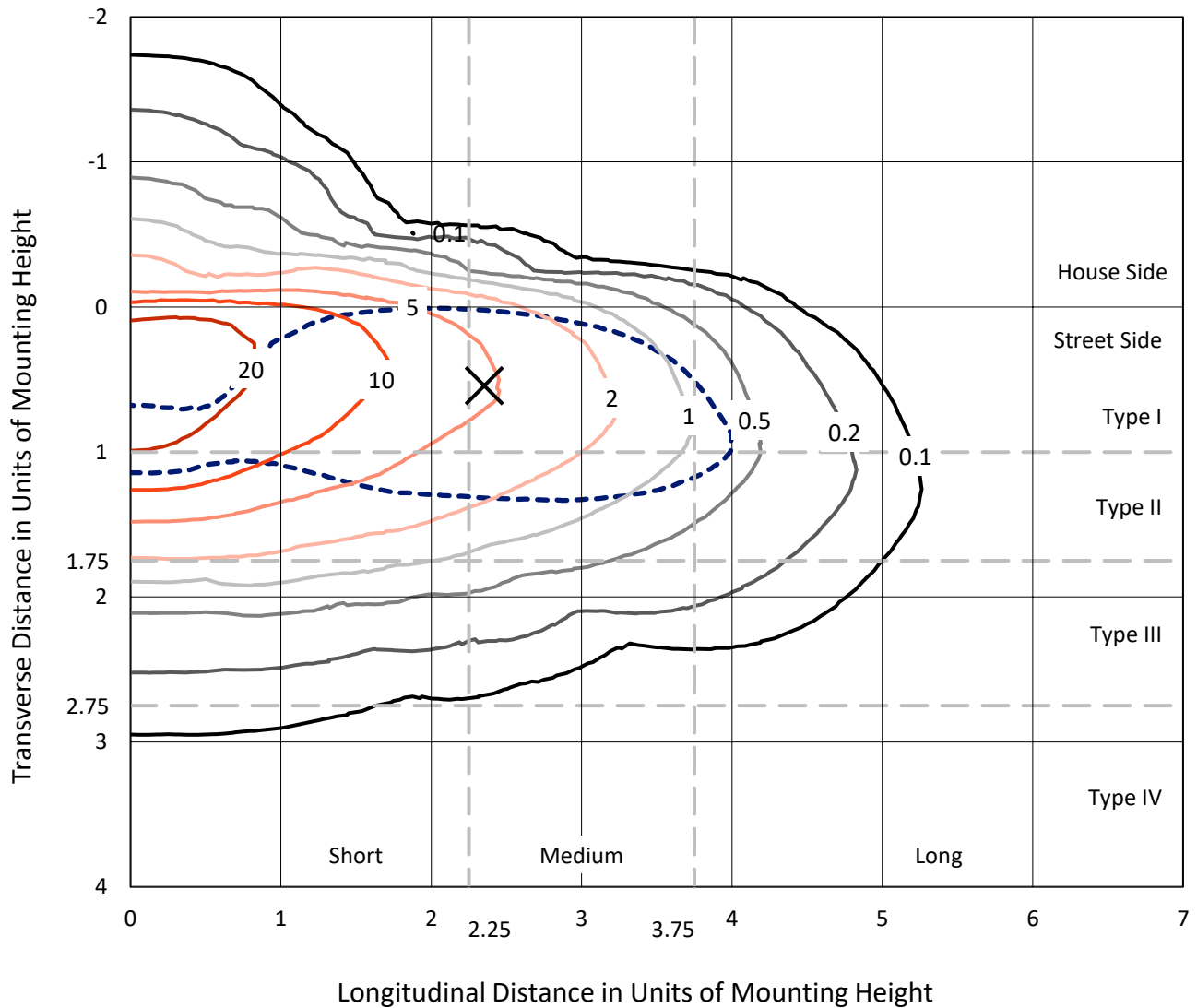
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

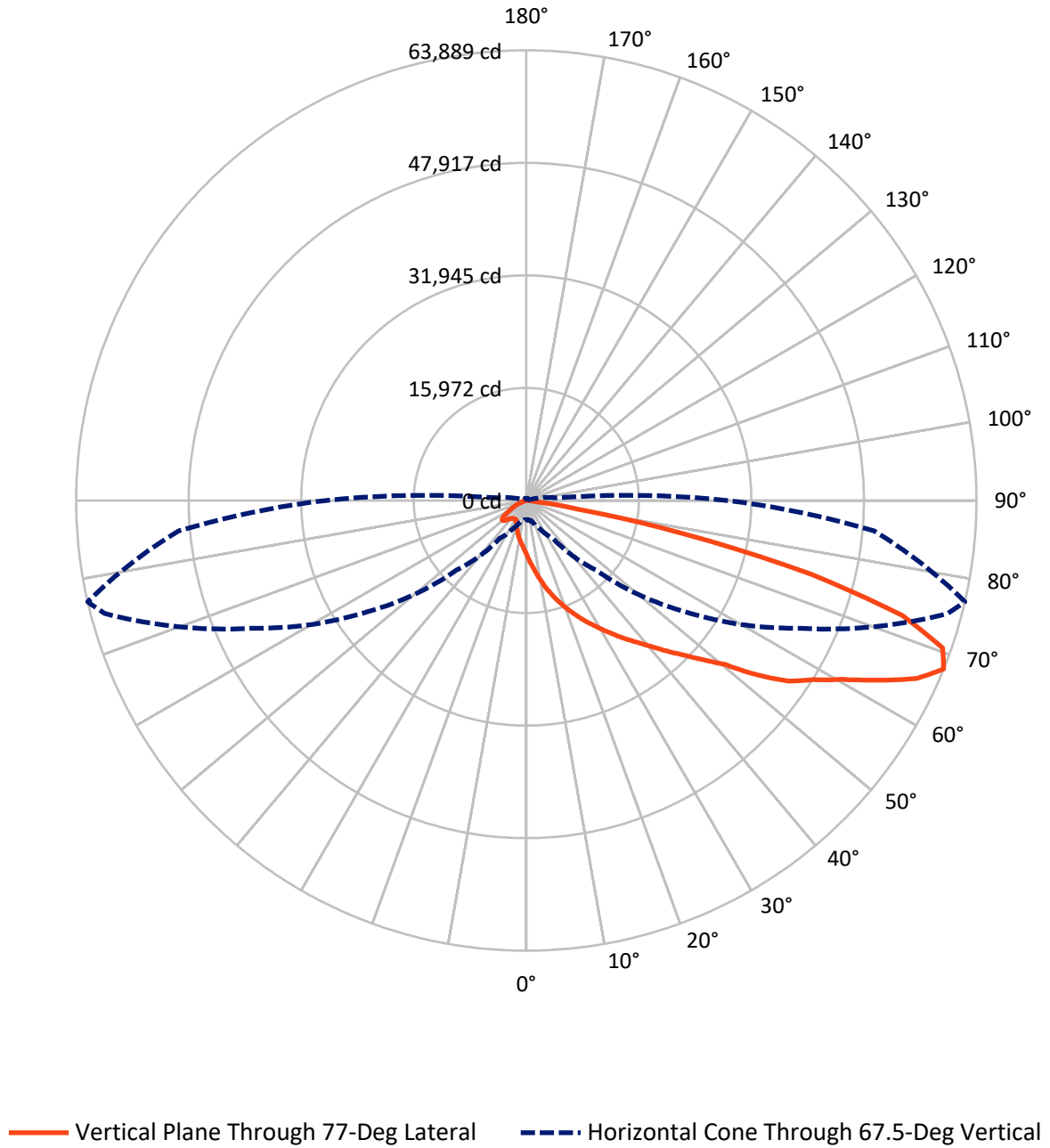
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.7 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	4902.7	0.0	4902.7
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	61737.3	0.0	61737.3
	% Fixture	92.6	0.0	92.6
Total	Lumens	66640.0	0.0	66640.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	784.3	1.2
10°-20°	2746.6	4.1
20°-30°	5300.3	8.0
30°-40°	9201.6	13.8
40°-50°	13360.2	20.0
50°-60°	15342.5	23.0
60°-70°	13320.2	20.0
70°-80°	6273.9	9.4
80°-90°	310.3	0.5
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°	66640.0	100.0
0°-180°	66640.0	100.0

Coefficient of Utilization



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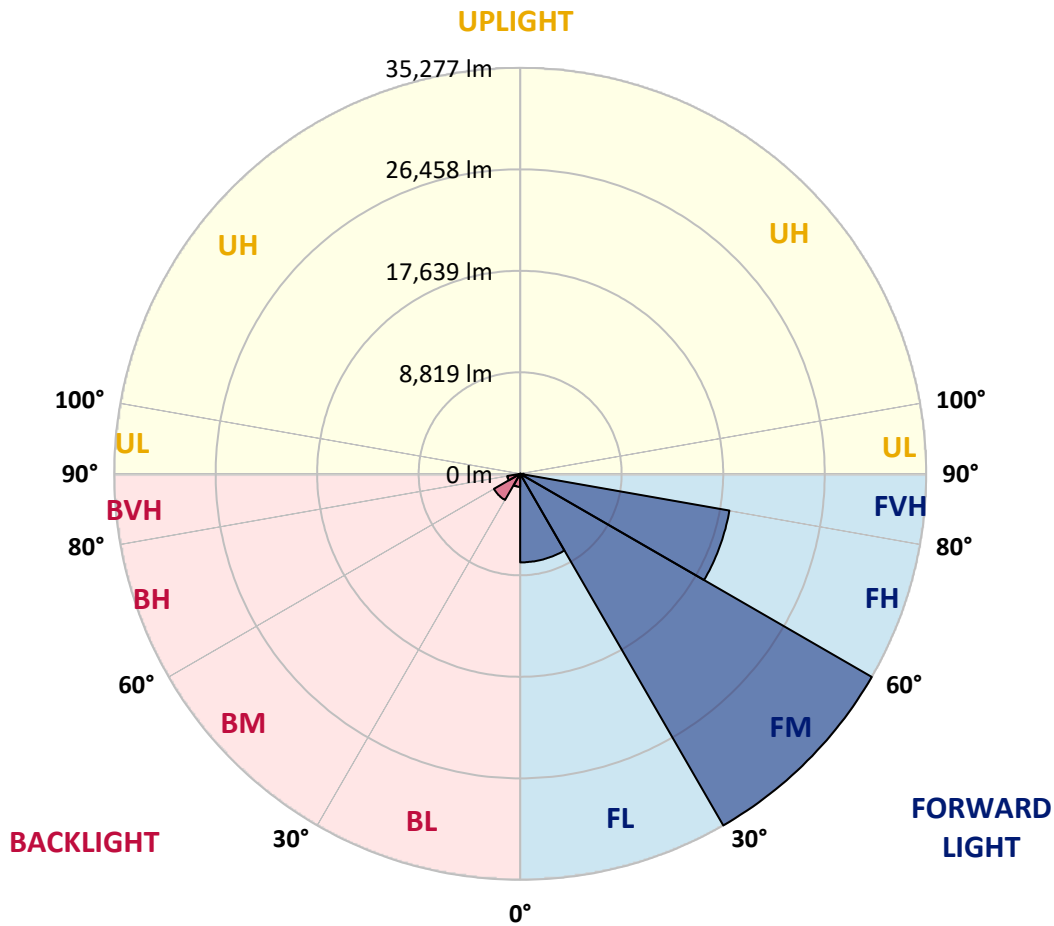
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7696.2	11.5			
FM (30°-60°)	35277.4	52.9			
FH (60°-80°)	18459.1	27.7			G5
FVH (80°-90°)	304.6	0.5			G3/500
BL (0°-30°)	1135.1	1.7	B3/2500		
BM (30°-60°)	2627.0	3.9	B3/5000		
BH (60°-80°)	1135.0	1.7	B3/2500		G3/2500
BVH (80°-90°)	5.7	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	7684.6	7684.6	7684.6	7684.6	7684.6	7684.6	7684.6	7684.6	7684.6	7684.6
2.5°	10639.2	10705.4	10610.3	10428.2	10155.1	9977.1	9542.6	9132.9	8677.7	8532.9
5°	12969.0	13026.9	12919.3	12720.7	12356.6	12009.0	11437.9	10581.3	9691.6	9406.0
7.5°	14694.6	14727.7	14686.3	14504.3	14156.7	13763.5	13126.3	12112.4	10792.3	10477.8
10°	15936.1	16043.7	16031.2	15960.9	15729.2	15410.5	14731.9	13577.3	12025.5	11620.0
12.5°	16759.6	16879.6	16949.9	17107.2	17094.8	16892.0	16296.1	15075.3	13254.5	12778.7
15°	16999.6	17127.9	17396.8	17761.0	18083.8	18187.2	17769.3	16544.4	14607.7	13999.4
17.5°	16863.0	17061.7	17384.4	17959.6	18667.3	19134.9	19089.4	17963.8	15836.8	15141.5
20°	17165.1	17355.5	17607.9	18092.1	18915.6	19763.9	20103.2	19321.1	17057.5	16329.2
22.5°	18836.9	18803.8	18828.6	18907.3	19399.7	20239.8	20939.1	20554.3	18265.9	17521.0
25°	21485.4	21336.4	21083.9	20657.7	20533.6	20939.1	21667.4	21646.7	19540.4	18741.7
27.5°	24522.8	24497.9	23906.2	22879.9	22300.6	22143.3	22490.9	22710.2	20802.6	19950.1
30°	27431.9	27498.1	26699.4	25557.3	24493.8	23877.2	23562.7	23720.0	22085.4	21253.6
32.5°	29964.4	30034.8	29165.8	27829.2	26513.2	25768.4	25106.2	24717.3	23484.1	22577.8
35°	32103.9	32174.2	31176.9	29699.6	28296.8	27622.2	26873.2	25809.7	24891.1	24046.9
37.5°	34015.7	33995.0	32658.4	31168.7	29790.6	29256.8	28863.7	27154.6	26339.4	25524.2
40°	35145.4	35232.3	34090.2	32447.3	31110.7	30721.7	30696.9	28822.3	28011.2	27220.8
42.5°	35476.5	35629.6	34802.0	33452.9	32240.4	31818.3	32468.0	30626.6	29956.2	29186.5
45°	34880.6	35029.6	34653.0	33717.8	33010.1	32737.0	33990.9	32497.0	32033.5	31272.1
47.5°	33142.6	33328.8	33419.8	33221.2	33212.9	33490.2	35356.5	34466.8	34499.9	33721.9
50°	29778.2	30092.7	30928.6	31632.1	32720.5	34086.1	36684.8	36602.1	37280.7	36610.3
52.5°	23662.0	24108.9	26989.1	28913.4	31359.0	33974.3	38145.6	40028.5	42159.6	41178.9
55°	19014.9	19014.9	21357.1	24957.3	28702.3	33237.7	38782.9	42254.8	45482.6	45250.8
57.5°	15501.6	15687.8	17181.7	20363.9	24858.0	31483.2	39176.0	43653.5	48160.0	47990.3
60°	9567.4	9968.8	12791.1	15931.9	20483.9	28358.8	38927.7	45068.8	51408.4	51545.0
62.5°	5387.9	5536.9	6794.9	11462.7	15927.8	24158.6	37028.3	45859.1	55563.1	56142.5
65°	3720.2	3794.7	4278.9	7134.2	11040.6	19234.2	33316.4	45366.7	59726.1	60897.2
67.5°	2702.2	2739.5	3041.6	4357.5	6550.7	13945.6	27498.1	42883.8	61931.8	63889.1
70°	2077.4	2102.2	2321.5	2863.6	3869.2	8607.4	19970.8	37947.0	60334.4	62672.5
72.5°	1688.4	1713.2	1882.9	2118.7	2565.7	5089.9	12104.1	30816.9	53283.0	55807.3
75°	1423.5	1456.6	1609.7	1762.9	2011.1	3269.1	5677.6	21460.5	40069.8	41725.1
77.5°	790.4	728.3	1307.7	1460.8	1696.6	2069.1	2656.7	12629.7	22441.3	22900.6
80°	492.4	509.0	1038.7	1175.2	1303.5	1042.8	1216.6	4862.3	7779.7	7390.8
82.5°	29.0	66.2	798.7	848.3	893.8	446.9	459.3	1651.1	1874.6	1721.5
85°	0.0	0.0	364.2	293.8	310.4	128.3	132.4	384.8	252.4	273.1
87.5°	0.0	0.0	0.0	8.3	0.0	12.4	24.8	33.1	12.4	16.6
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°
7684.6	0°	7684.6	7684.6	7684.6	7684.6	7684.6	7684.6	7684.6	7684.6	7684.6	7684.6
8077.7	2.5°	7788.0	7498.4	6910.7	6335.5	5867.9	5433.4	5123.0	4829.2	4680.3	4672.0
8599.1	5°	8023.9	7415.6	6240.4	5201.7	4365.8	3695.4	3260.9	2950.5	2793.3	2739.5
9240.5	7.5°	8355.0	7440.4	5652.7	4208.5	3223.6	2648.4	2400.1	2300.8	2267.7	2230.5
9964.7	10°	8772.9	7498.4	5127.2	3389.2	2540.8	2251.2	2151.8	2110.5	2085.6	2060.8
10779.9	12.5°	9240.5	7552.2	4605.8	2814.0	2234.6	2085.6	2015.3	1965.6	1932.5	1903.6
11615.8	15°	9695.7	7585.3	4063.7	2412.5	2077.4	1957.4	1882.9	1829.1	1783.5	1750.4
12435.2	17.5°	10146.8	7630.8	3554.7	2172.5	1949.1	1829.1	1754.6	1688.4	1651.1	1613.9
13295.9	20°	10647.5	7622.5	3074.7	2002.9	1820.8	1700.8	1622.2	1560.1	1522.8	1481.5
14206.3	22.5°	11111.0	7581.1	2652.6	1858.0	1688.4	1572.5	1485.6	1423.5	1386.3	1353.2
15137.4	25°	11644.8	7548.0	2300.8	1725.6	1564.2	1448.4	1353.2	1295.2	1253.9	1224.9
16072.6	27.5°	12157.9	7498.4	2044.3	1605.6	1444.2	1332.5	1241.4	1175.2	1138.0	1117.3
17036.8	30°	12662.8	7485.9	1949.1	1489.7	1336.6	1224.9	1133.9	1071.8	1042.8	1034.5
18096.2	32.5°	13271.1	7519.0	1990.5	1448.4	1237.3	1125.6	1038.7	993.2	964.2	964.2
19275.6	35°	13920.8	7510.8	2052.5	1485.6	1171.1	1026.3	960.1	931.1	902.1	902.1
20583.2	37.5°	14736.0	7523.2	2102.2	1547.7	1146.3	943.5	906.3	869.0	852.5	852.5
22015.0	40°	15952.6	7932.9	2077.4	1601.5	1138.0	885.6	811.1	798.7	786.3	786.3
23633.1	42.5°	17442.4	8822.6	2110.5	1605.6	1133.9	844.2	744.9	769.7	740.7	736.6
25458.0	45°	19072.8	9795.0	2321.5	1518.7	1129.7	823.5	711.8	740.7	695.2	695.2
27572.6	47.5°	20690.8	10759.2	2536.7	1394.6	1117.3	819.4	682.8	666.2	653.8	658.0
30328.6	50°	22921.3	11545.5	2619.5	1224.9	1088.3	811.1	629.0	633.1	624.9	633.1
34214.3	52.5°	25350.4	11711.0	2520.1	1034.5	1005.6	786.3	591.8	608.3	604.2	612.4
36949.7	55°	26865.0	11533.1	2081.5	860.7	877.3	686.9	554.5	587.6	587.6	587.6
39622.9	57.5°	28429.2	10775.8	1477.3	699.3	728.3	562.8	521.4	566.9	562.8	558.7
42842.4	60°	29554.8	9550.9	972.5	575.2	579.3	463.5	484.2	533.8	529.7	509.0
46161.2	62.5°	30394.8	8197.7	624.9	488.3	442.8	418.0	442.8	484.2	467.6	422.1
48975.2	65°	30299.6	6323.1	480.0	418.0	364.2	364.2	384.8	422.1	372.4	297.9
49513.1	67.5°	28532.6	4278.9	397.3	351.7	306.2	302.1	318.6	351.7	318.6	252.4
46757.1	70°	25375.2	2797.4	318.6	273.1	244.2	223.5	256.6	302.1	269.0	202.8
39805.0	72.5°	20595.6	1704.9	240.0	198.6	177.9	144.8	202.8	248.3	215.2	149.0
27680.2	75°	13324.9	869.0	165.5	128.3	95.2	86.9	149.0	186.2	149.0	91.0
12282.1	77.5°	5098.2	364.2	91.0	57.9	49.7	41.4	82.8	111.7	62.1	20.7
2379.4	80°	980.7	153.1	45.5	29.0	24.8	16.6	12.4	8.3	0.0	0.0
422.1	82.5°	169.7	49.7	16.6	8.3	0.0	0.0	0.0	0.0	0.0	0.0
82.8	85°	57.9	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29.0	87.5°	20.7	0.0	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>
7684.6
4663.7
2731.2
2222.2
2052.5
1895.3
1746.3
1609.7
1477.3
1349.0
1220.8
1117.3
1030.4
964.2
902.1
852.5
786.3
732.5
695.2
658.0
633.1
612.4
587.6
558.7
509.0
413.8
289.7
244.2
194.5
140.7
78.6
16.6
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