

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: P956729

Luminaire Tested: **GALN-SB9B-750-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956729
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-SB9B-750-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 5000K, 450mA 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: 45943 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

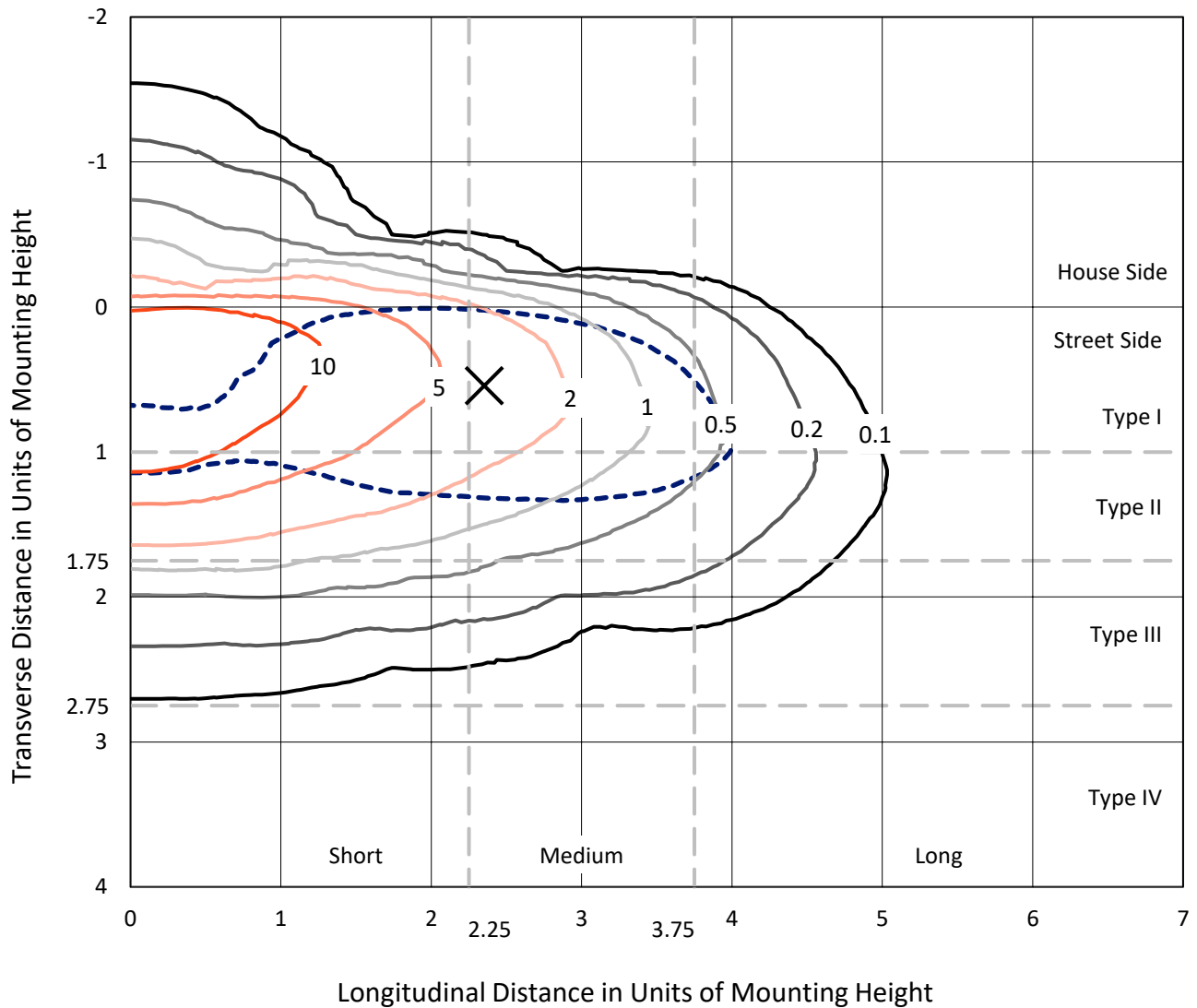
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

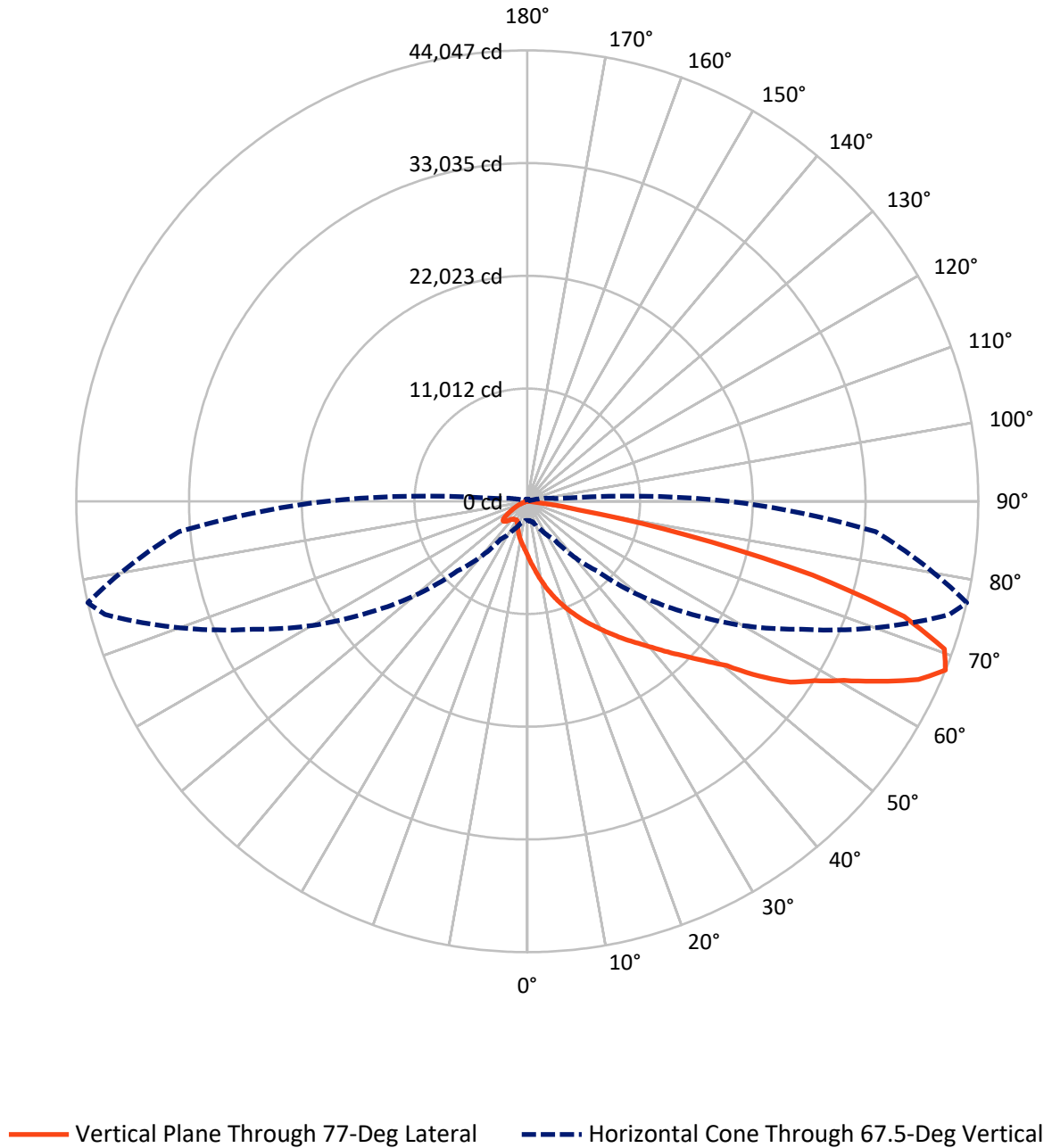
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.8 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	3380.0	0.0	3380.0
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	42562.9	0.0	42562.9
	% Fixture	92.6	0.0	92.6
Total	Lumens	45943.0	0.0	45943.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.7	1.2
10°-20°	1893.6	4.1
20°-30°	3654.1	8.0
30°-40°	6343.8	13.8
40°-50°	9210.8	20.0
50°-60°	10577.5	23.0
60°-70°	9183.2	20.0
70°-80°	4325.4	9.4
80°-90°	213.9	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°	45943.0	100.0
0°-180°	45943.0	100.0

Coefficient of Utilization



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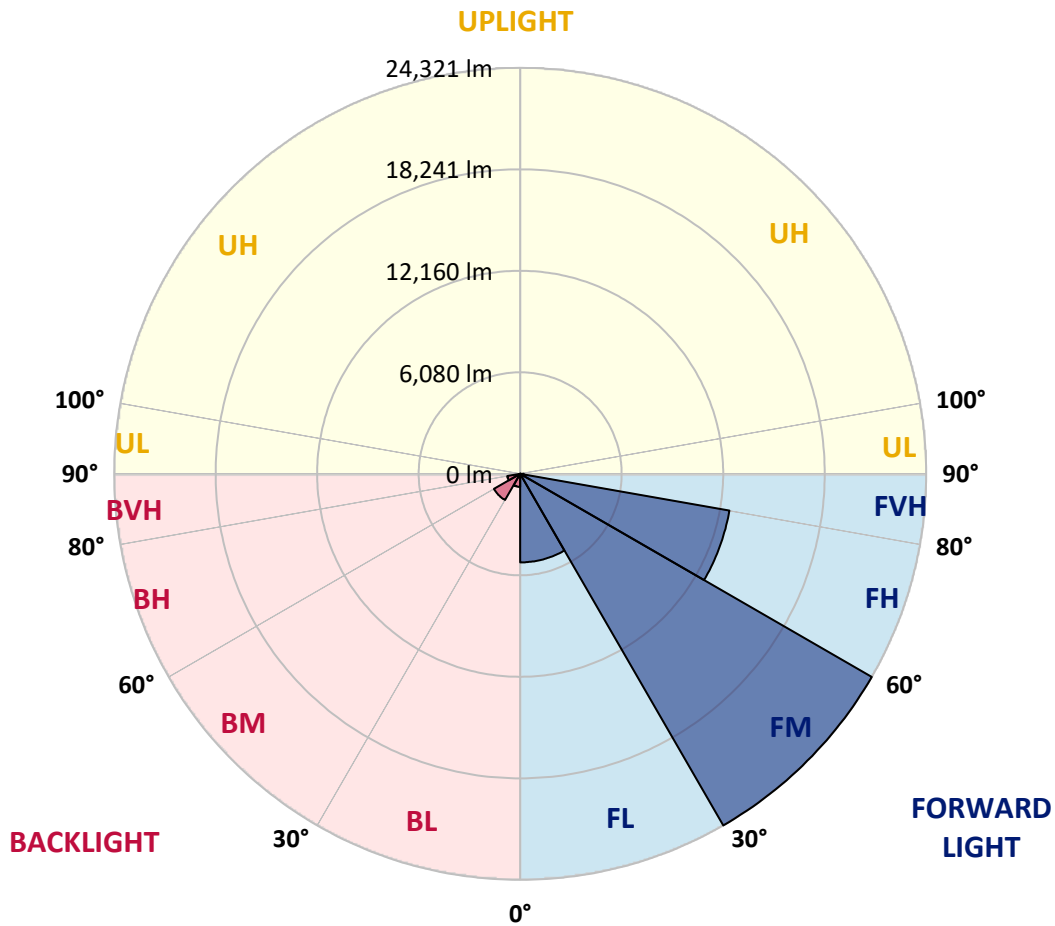
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5305.9	11.5			
FM (30°-60°)	24321.0	52.9			
FH (60°-80°)	12726.1	27.7			G5
FVH (80°-90°)	210.0	0.5			G2/225
BL (0°-30°)	782.5	1.7	B2/1000		
BM (30°-60°)	1811.1	3.9	B2/2500		
BH (60°-80°)	782.5	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5297.9	5297.9	5297.9	5297.9	5297.9	5297.9	5297.9	5297.9	5297.9	5297.9
2.5°	7334.9	7380.5	7314.9	7189.4	7001.1	6878.4	6578.9	6296.4	5982.6	5882.8
5°	8941.1	8981.0	8906.9	8769.9	8518.9	8279.2	7885.5	7295.0	6681.6	6484.7
7.5°	10130.8	10153.6	10125.1	9999.5	9759.9	9488.9	9049.5	8350.5	7440.5	7223.6
10°	10986.7	11060.8	11052.3	11003.8	10844.0	10624.3	10156.5	9360.5	8290.6	8011.0
12.5°	11554.4	11637.1	11685.6	11794.0	11785.5	11645.7	11234.9	10393.2	9138.0	8809.9
15°	11719.9	11808.3	11993.7	12244.8	12467.3	12538.7	12250.5	11406.0	10070.9	9651.5
17.5°	11625.7	11762.7	11985.2	12381.7	12869.6	13192.0	13160.6	12384.6	10918.2	10438.9
20°	11834.0	11965.2	12139.2	12473.0	13040.8	13625.6	13859.6	13320.4	11759.8	11257.7
22.5°	12986.6	12963.7	12980.9	13035.1	13374.6	13953.7	14435.9	14170.5	12592.9	12079.3
25°	14812.4	14709.7	14535.7	14241.9	14156.3	14435.9	14938.0	14923.7	13471.6	12920.9
27.5°	16906.5	16889.4	16481.4	15773.9	15374.5	15266.1	15505.7	15656.9	14341.7	13754.0
30°	18912.1	18957.8	18407.1	17619.7	16886.5	16461.4	16244.6	16353.0	15226.1	14652.7
32.5°	20658.1	20706.6	20107.5	19186.0	18278.8	17765.2	17308.8	17040.6	16190.4	15565.6
35°	22133.1	22181.6	21494.0	20475.5	19508.4	19043.4	18527.0	17793.8	17160.4	16578.4
37.5°	23451.1	23436.9	22515.4	21488.3	20538.3	20170.3	19899.2	18721.0	18158.9	17596.9
40°	24230.0	24289.9	23502.5	22369.9	21448.4	21180.2	21163.1	19870.7	19311.5	18766.6
42.5°	24458.2	24563.8	23993.2	23063.1	22227.2	21936.2	22384.1	21114.6	20652.4	20121.8
45°	24047.4	24150.1	23890.5	23245.7	22757.9	22569.6	23434.0	22404.1	22084.6	21559.6
47.5°	22849.2	22977.6	23040.3	22903.4	22897.7	23088.8	24375.5	23762.1	23784.9	23248.6
50°	20529.7	20746.6	21322.8	21807.8	22558.2	23499.6	25291.3	25234.2	25702.1	25239.9
52.5°	16313.1	16621.2	18606.9	19933.5	21619.6	23422.6	26298.4	27596.5	29065.7	28389.6
55°	13109.2	13109.2	14724.0	17206.1	19788.0	22914.8	26737.7	29131.3	31356.6	31196.9
57.5°	10687.1	10815.5	11845.4	14039.3	17137.6	21705.1	27008.8	30095.6	33202.5	33085.5
60°	6596.0	6872.7	8818.4	10983.8	14122.0	19551.2	26837.6	31071.3	35442.0	35536.2
62.5°	3714.5	3817.2	4684.5	7902.6	10981.0	16655.4	25528.1	31616.2	38306.4	38705.8
65°	2564.8	2616.1	2949.9	4918.5	7611.6	13260.4	22969.0	31276.7	41176.4	41983.8
67.5°	1863.0	1888.6	2096.9	3004.1	4516.2	9614.4	18957.8	29565.0	42697.0	44046.5
70°	1432.2	1449.3	1600.5	1974.2	2667.5	5934.1	13768.3	26161.4	41595.8	43207.7
72.5°	1164.0	1181.1	1298.1	1460.7	1768.8	3509.1	8344.8	21245.8	36734.4	38474.7
75°	981.4	1004.2	1109.8	1215.4	1386.5	2253.8	3914.2	14795.3	27625.0	28766.2
77.5°	544.9	502.1	901.5	1007.1	1169.7	1426.5	1831.6	8707.2	15471.5	15788.2
80°	339.5	350.9	716.1	810.2	898.7	718.9	838.8	3352.2	5363.5	5095.3
82.5°	20.0	45.6	550.6	584.9	616.2	308.1	316.7	1138.3	1292.4	1186.8
85°	0.0	0.0	251.1	202.6	214.0	88.4	91.3	265.3	174.0	188.3
87.5°	0.0	0.0	0.0	5.7	0.0	8.6	17.1	22.8	8.6	11.4
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°
5297.9	0°	5297.9	5297.9	5297.9	5297.9	5297.9	5297.9	5297.9	5297.9	5297.9	5297.9
5568.9	2.5°	5369.2	5169.5	4764.4	4367.8	4045.5	3745.9	3531.9	3329.4	3226.7	3221.0
5928.4	5°	5531.8	5112.5	4302.2	3586.1	3009.8	2547.7	2248.1	2034.1	1925.7	1888.6
6370.6	7.5°	5760.1	5129.6	3897.1	2901.4	2222.4	1825.9	1654.7	1586.2	1563.4	1537.7
6869.9	10°	6048.2	5169.5	3534.8	2336.6	1751.7	1552.0	1483.5	1455.0	1437.9	1420.8
7431.9	12.5°	6370.6	5206.6	3175.3	1940.0	1540.6	1437.9	1389.4	1355.1	1332.3	1312.4
8008.2	15°	6684.4	5229.4	2801.6	1663.3	1432.2	1349.4	1298.1	1261.0	1229.6	1206.8
8573.1	17.5°	6995.4	5260.8	2450.7	1497.8	1343.7	1261.0	1209.6	1164.0	1138.3	1112.6
9166.5	20°	7340.6	5255.1	2119.7	1380.8	1255.3	1172.6	1118.4	1075.6	1049.9	1021.4
9794.1	22.5°	7660.1	5226.6	1828.7	1281.0	1164.0	1084.1	1024.2	981.4	955.7	932.9
10436.0	25°	8028.2	5203.8	1586.2	1189.7	1078.4	998.5	932.9	893.0	864.4	844.5
11080.8	27.5°	8381.9	5169.5	1409.4	1106.9	995.7	918.6	855.9	810.2	784.6	770.3
11745.5	30°	8730.0	5161.0	1343.7	1027.1	921.5	844.5	781.7	738.9	718.9	713.2
12475.9	32.5°	9149.4	5183.8	1372.3	998.5	853.0	776.0	716.1	684.7	664.7	664.7
13289.0	35°	9597.3	5178.1	1415.1	1024.2	807.4	707.5	661.9	641.9	621.9	621.9
14190.5	37.5°	10159.3	5186.6	1449.3	1067.0	790.3	650.5	624.8	599.1	587.7	587.7
15177.6	40°	10998.1	5469.1	1432.2	1104.1	784.6	610.5	559.2	550.6	542.1	542.1
16293.1	42.5°	12025.1	6082.5	1455.0	1106.9	781.7	582.0	513.5	530.6	510.7	507.8
17551.3	45°	13149.2	6752.9	1600.5	1047.0	778.9	567.7	490.7	510.7	479.3	479.3
19009.1	47.5°	14264.7	7417.6	1748.9	961.4	770.3	564.9	470.7	459.3	450.8	453.6
20909.2	50°	15802.4	7959.7	1805.9	844.5	750.3	559.2	433.6	436.5	430.8	436.5
23588.1	52.5°	17477.1	8073.8	1737.4	713.2	693.3	542.1	408.0	419.4	416.5	422.2
25473.9	55°	18521.3	7951.1	1435.0	593.4	604.8	473.6	382.3	405.1	405.1	405.1
27316.9	57.5°	19599.7	7429.0	1018.5	482.1	502.1	388.0	359.5	390.9	388.0	385.1
29536.5	60°	20375.7	6584.6	670.4	396.6	399.4	319.5	333.8	368.0	365.2	350.9
31824.5	62.5°	20954.8	5651.7	430.8	336.6	305.3	288.1	305.3	333.8	322.4	291.0
33764.5	65°	20889.2	4359.3	330.9	288.1	251.1	251.1	265.3	291.0	256.8	205.4
34135.4	67.5°	19671.0	2949.9	273.9	242.5	211.1	208.3	219.7	242.5	219.7	174.0
32235.3	70°	17494.2	1928.6	219.7	188.3	168.3	154.1	176.9	208.3	185.4	139.8
27442.4	72.5°	14199.1	1175.4	165.5	136.9	122.7	99.9	139.8	171.2	148.4	102.7
19083.3	75°	9186.5	599.1	114.1	88.4	65.6	59.9	102.7	128.4	102.7	62.8
8467.5	77.5°	3514.8	251.1	62.8	39.9	34.2	28.5	57.1	77.0	42.8	14.3
1640.4	80°	676.1	105.6	31.4	20.0	17.1	11.4	8.6	5.7	0.0	0.0
291.0	82.5°	117.0	34.2	11.4	5.7	0.0	0.0	0.0	0.0	0.0	0.0
57.1	85°	39.9	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.0	87.5°	14.3	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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180°
5297.9
3215.3
1882.9
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1415.1
1306.6
1203.9
1109.8
1018.5
930.1
841.6
770.3
710.4
664.7
621.9
587.7
542.1
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479.3
453.6
436.5
422.2
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