

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: P956225

Luminaire Tested: **GALN-SB8D-940-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956225
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-940-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 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: 50485 lumens
Efficiency: N/A
Efficacy: 86.3 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

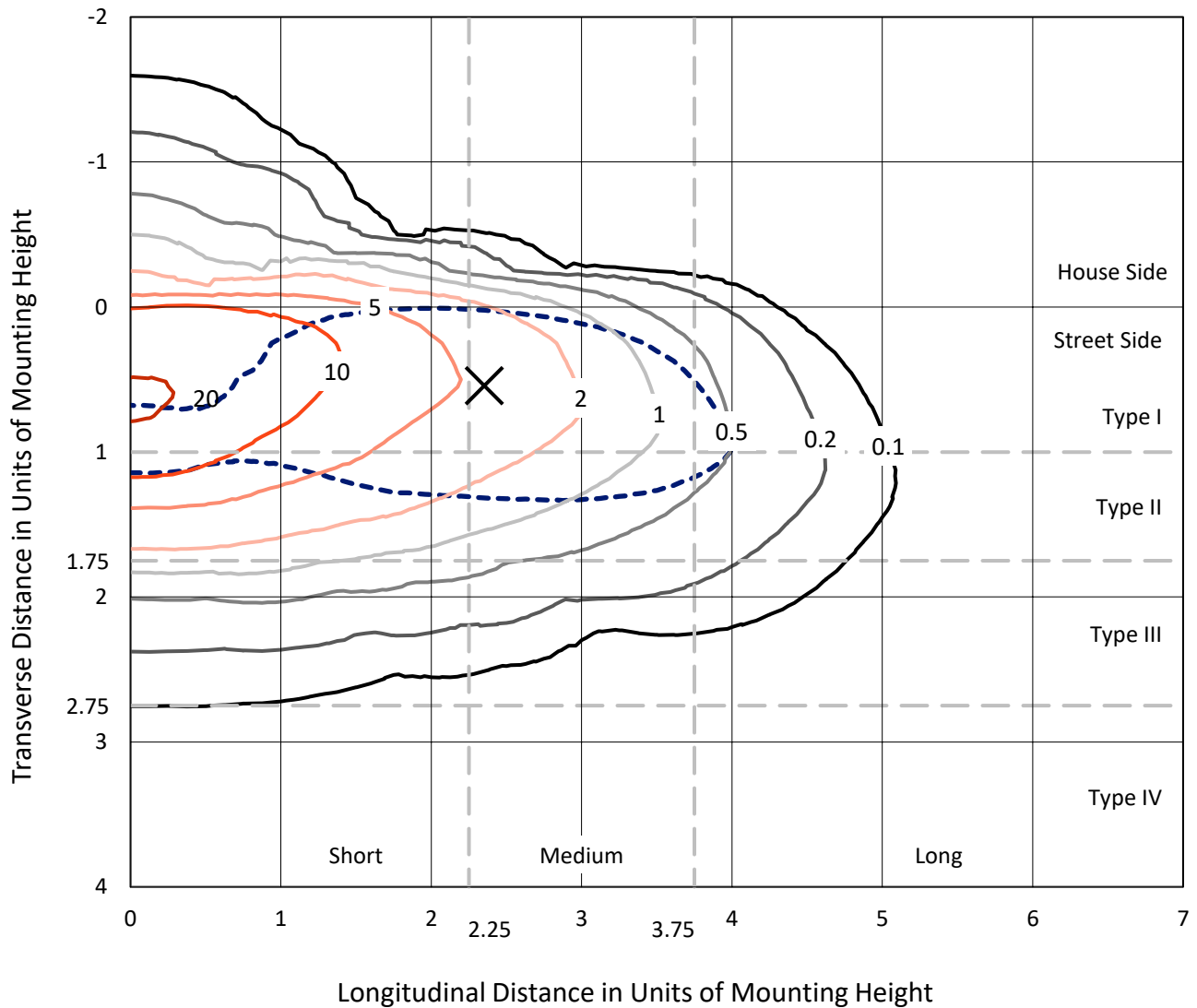
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

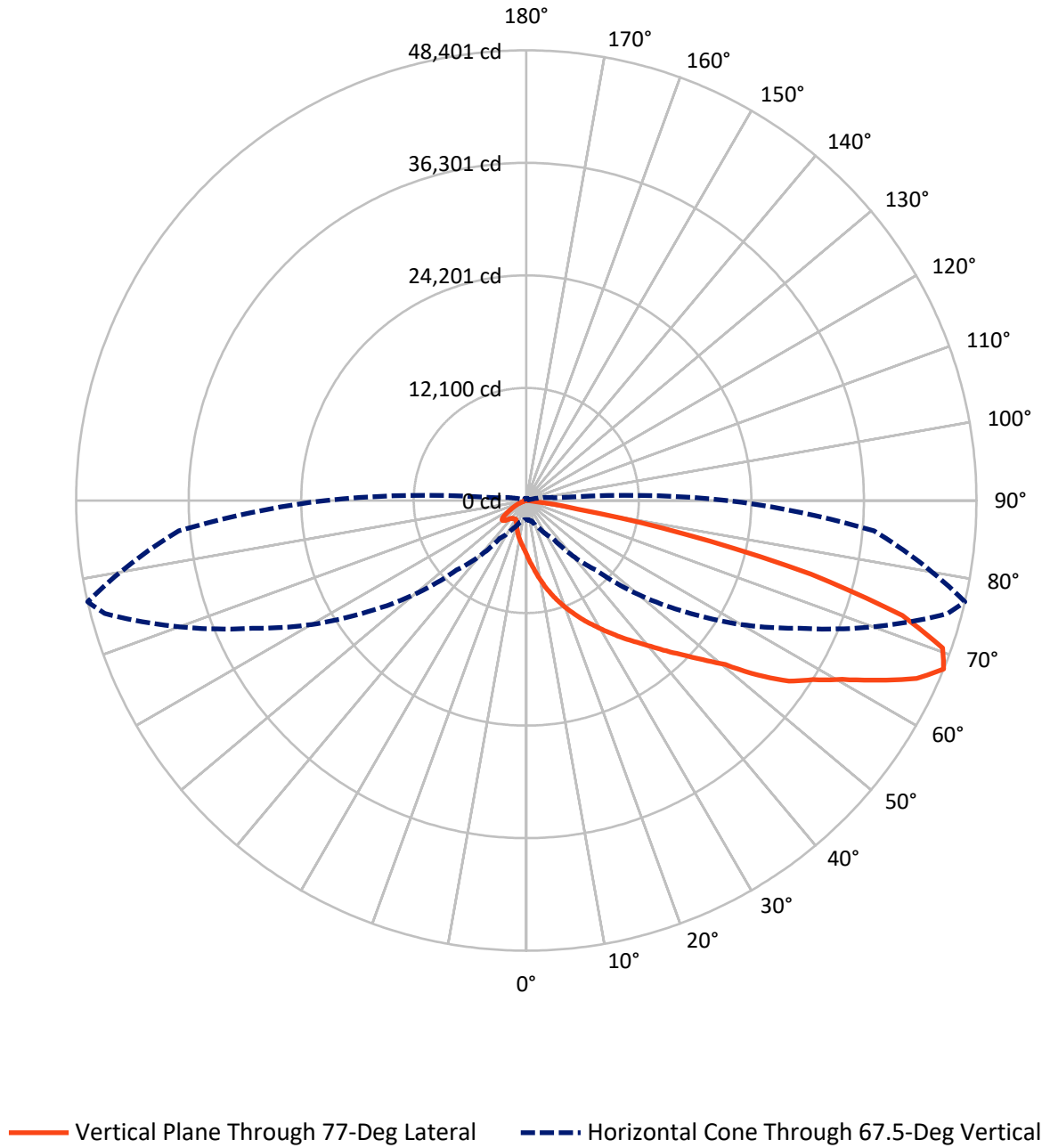
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.8 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	3714.2	0.0	3714.2
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	46770.8	0.0	46770.8
	% Fixture	92.6	0.0	92.6
Total	Lumens	50485.0	0.0	50485.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.2	1.2
10°-20°	2080.8	4.1
20°-30°	4015.4	8.0
30°-40°	6970.9	13.8
40°-50°	10121.4	20.0
50°-60°	11623.2	23.0
60°-70°	10091.1	20.0
70°-80°	4753.0	9.4
80°-90°	235.1	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°	50485.0	100.0
0°-180°	50485.0	100.0

Coefficient of Utilization



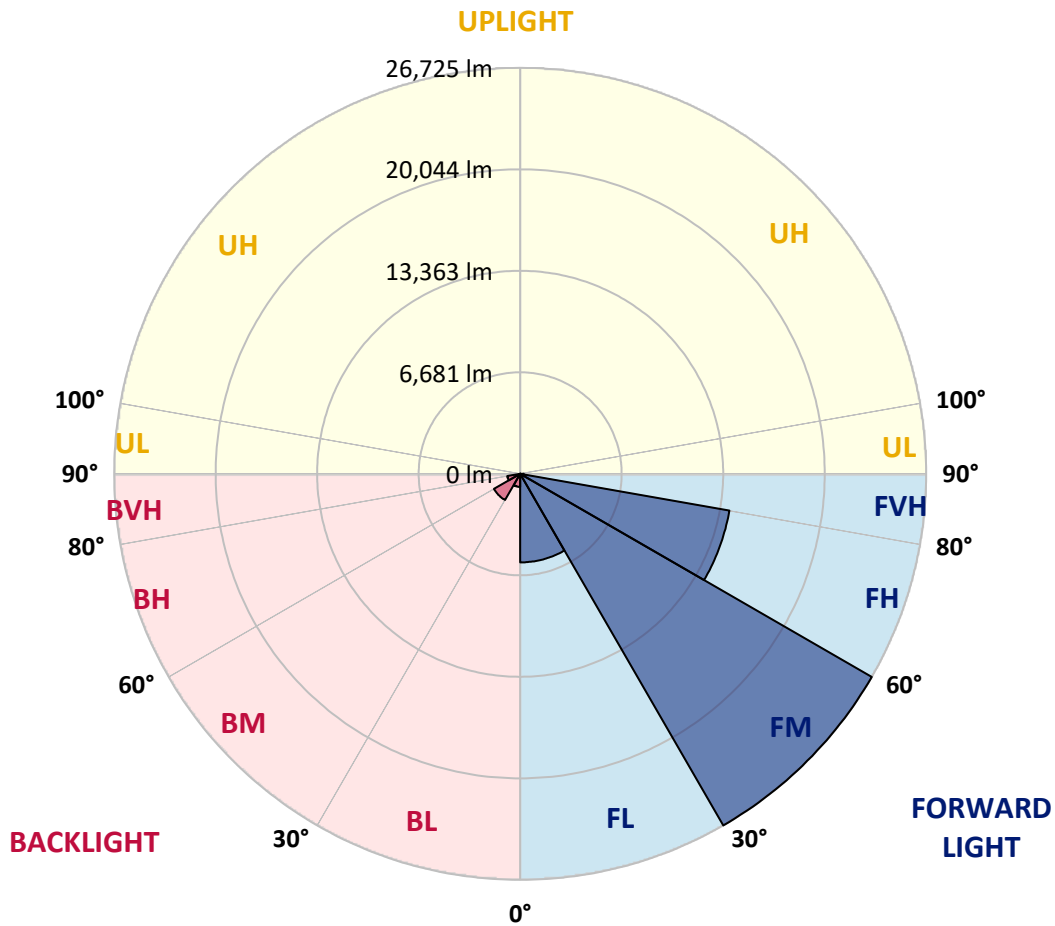
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5830.5	11.5			
FM (30°-60°)	26725.4	52.9			
FH (60°-80°)	13984.2	27.7			G5
FVH (80°-90°)	230.7	0.5			G3/500
BL (0°-30°)	859.9	1.7	B2/1000		
BM (30°-60°)	1990.1	3.9	B2/2500		
BH (60°-80°)	859.9	1.7	B2/1000		G2/1000
BVH (80°-90°)	4.3	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°	5821.7	5821.7	5821.7	5821.7	5821.7	5821.7	5821.7	5821.7	5821.7	5821.7
2.5°	8060.0	8110.2	8038.1	7900.2	7693.2	7558.4	7229.3	6918.9	6574.1	6464.3
5°	9825.0	9868.9	9787.4	9636.9	9361.1	9097.7	8665.1	8016.2	7342.1	7125.8
7.5°	11132.3	11157.4	11126.1	10988.1	10724.8	10427.0	9944.2	9176.1	8176.0	7937.8
10°	12072.8	12154.3	12144.9	12091.6	11916.1	11674.7	11160.5	10285.9	9110.3	8803.0
12.5°	12696.7	12787.6	12840.9	12960.0	12950.6	12797.0	12345.6	11420.7	10041.3	9680.8
15°	12878.5	12975.7	13179.5	13455.3	13699.9	13778.2	13461.6	12533.7	11066.5	10605.6
17.5°	12775.1	12925.5	13170.1	13605.8	14141.9	14496.2	14461.7	13609.0	11997.6	11470.9
20°	13003.9	13148.1	13339.4	13706.1	14330.0	14972.7	15229.7	14637.2	12922.4	12370.6
22.5°	14270.4	14245.4	14264.2	14323.7	14696.8	15333.2	15863.0	15571.5	13837.8	13273.5
25°	16276.8	16164.0	15972.7	15649.8	15555.8	15863.0	16414.8	16399.1	14803.4	14198.3
27.5°	18577.9	18559.1	18110.8	17333.3	16894.4	16775.3	17038.6	17204.8	15759.6	15113.8
30°	20781.8	20832.0	20226.9	19361.7	18556.0	18088.8	17850.6	17969.7	16731.4	16101.3
32.5°	22700.4	22753.7	22095.4	21082.8	20085.8	19521.5	19019.9	18725.3	17791.0	17104.5
35°	24321.2	24374.5	23619.0	22499.8	21437.0	20926.0	20358.6	19552.9	18856.9	18217.4
37.5°	25769.6	25753.9	24741.3	23612.7	22568.7	22164.3	21866.5	20571.8	19954.2	19336.6
40°	26625.4	26691.2	25826.0	24581.4	23568.8	23274.1	23255.3	21835.2	21220.7	20621.9
42.5°	26876.2	26992.2	26365.2	25343.2	24424.6	24104.9	24597.1	23202.0	22694.1	22111.0
45°	26424.8	26537.6	26252.3	25543.8	25007.8	24800.8	25750.7	24619.0	24267.9	23691.1
47.5°	25108.1	25249.1	25318.1	25167.6	25161.4	25371.4	26785.3	26111.3	26136.3	25547.0
50°	22559.3	22797.6	23430.9	23963.8	24788.3	25822.9	27791.6	27728.9	28243.1	27735.2
52.5°	17925.8	18264.4	20446.4	21904.1	23756.9	25738.2	28898.3	30324.7	31939.2	31196.2
55°	14405.2	14405.2	16179.6	18907.1	21744.2	25180.2	29381.1	32011.3	34456.6	34281.0
57.5°	11743.6	11884.7	13016.4	15427.2	18831.8	23850.9	29678.9	33070.9	36484.9	36356.4
60°	7248.1	7552.2	9690.2	12069.7	15518.2	21484.0	29490.8	34143.1	38945.9	39049.3
62.5°	4081.7	4194.6	5147.6	8683.9	12066.5	18302.0	28051.8	34741.9	42093.4	42532.3
65°	2818.3	2874.8	3241.6	5404.7	8364.1	14571.4	25239.7	34368.8	45247.2	46134.4
67.5°	2047.1	2075.4	2304.2	3301.1	4962.7	10564.9	20832.0	32487.8	46918.1	48401.0
70°	1573.8	1592.6	1758.7	2169.4	2931.2	6520.8	15129.4	28747.8	45708.0	47479.3
72.5°	1279.1	1297.9	1426.4	1605.1	1943.7	3856.0	9169.8	23346.2	40366.0	42278.4
75°	1078.4	1103.5	1219.5	1335.5	1523.6	2476.6	4301.2	16258.0	30356.0	31610.0
77.5°	598.8	551.8	990.7	1106.6	1285.3	1567.5	2012.7	9568.0	17001.0	17349.0
80°	373.1	385.6	786.9	890.3	987.5	790.0	921.7	3683.6	5893.8	5599.1
82.5°	21.9	50.2	605.1	642.7	677.2	338.6	348.0	1250.9	1420.1	1304.2
85°	0.0	0.0	275.9	222.6	235.1	97.2	100.3	291.6	191.2	206.9
87.5°	0.0	0.0	0.0	6.3	0.0	9.4	18.8	25.1	9.4	12.5
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°
5821.7	0°	5821.7	5821.7	5821.7	5821.7	5821.7	5821.7	5821.7	5821.7	5821.7	5821.7
6119.5	2.5°	5900.0	5680.6	5235.4	4799.7	4445.4	4116.2	3881.1	3658.5	3545.7	3539.4
6514.5	5°	6078.7	5617.9	4727.6	3940.7	3307.4	2799.5	2470.4	2235.2	2116.1	2075.4
7000.4	7.5°	6329.5	5636.7	4282.4	3188.3	2442.2	2006.4	1818.3	1743.1	1718.0	1689.8
7549.0	10°	6646.2	5680.6	3884.2	2567.6	1924.9	1705.4	1630.2	1598.8	1580.0	1561.2
8166.6	12.5°	7000.4	5721.3	3489.2	2131.8	1692.9	1580.0	1526.7	1489.1	1464.0	1442.1
8799.9	15°	7345.3	5746.4	3078.6	1827.7	1573.8	1482.8	1426.4	1385.7	1351.2	1326.1
9420.6	17.5°	7687.0	5780.9	2693.0	1645.9	1476.6	1385.7	1329.2	1279.1	1250.9	1222.6
10072.7	20°	8066.3	5774.6	2329.3	1517.3	1379.4	1288.5	1228.9	1181.9	1153.7	1122.3
10762.4	22.5°	8417.4	5743.3	2009.5	1407.6	1279.1	1191.3	1125.5	1078.4	1050.2	1025.1
11467.8	25°	8821.8	5718.2	1743.1	1307.3	1185.0	1097.2	1025.1	981.2	949.9	928.0
12176.3	27.5°	9210.6	5680.6	1548.7	1216.4	1094.1	1009.5	940.5	890.3	862.1	846.4
12906.7	30°	9593.0	5671.2	1476.6	1128.6	1012.6	928.0	859.0	812.0	790.0	783.7
13709.3	32.5°	10053.9	5696.3	1507.9	1097.2	937.4	852.7	786.9	752.4	730.5	730.5
14602.7	35°	10546.1	5690.0	1555.0	1125.5	887.2	777.5	727.3	705.4	683.4	683.4
15593.4	37.5°	11163.7	5699.4	1592.6	1172.5	868.4	714.8	686.6	658.3	645.8	645.8
16678.1	40°	12085.4	6009.8	1573.8	1213.2	862.1	670.9	614.5	605.1	595.6	595.6
17903.9	42.5°	13214.0	6683.8	1598.8	1216.4	859.0	639.5	564.3	583.1	561.2	558.0
19286.4	45°	14449.1	7420.5	1758.7	1150.5	855.9	623.9	539.2	561.2	526.7	526.7
20888.4	47.5°	15674.9	8151.0	1921.7	1056.5	846.4	620.7	517.3	504.7	495.3	498.5
22976.3	50°	17364.7	8746.6	1984.4	928.0	824.5	614.5	476.5	479.7	473.4	479.7
25920.0	52.5°	19204.9	8872.0	1909.2	783.7	761.8	595.6	448.3	460.8	457.7	464.0
27992.3	55°	20352.3	8737.2	1576.9	652.1	664.6	520.4	420.1	445.2	445.2	445.2
30017.5	57.5°	21537.3	8163.5	1119.2	529.8	551.8	426.4	395.0	429.5	426.4	423.2
32456.5	60°	22390.0	7235.5	736.7	435.8	438.9	351.1	366.8	404.4	401.3	385.6
34970.7	62.5°	23026.4	6210.4	473.4	369.9	335.4	316.6	335.4	366.8	354.3	319.8
37102.5	65°	22954.3	4790.3	363.7	316.6	275.9	275.9	291.6	319.8	282.1	225.7
37510.1	67.5°	21615.7	3241.6	301.0	266.5	232.0	228.9	241.4	266.5	241.4	191.2
35422.2	70°	19223.7	2119.2	241.4	206.9	185.0	169.3	194.4	228.9	203.8	153.6
30155.4	72.5°	15602.8	1291.6	181.8	150.5	134.8	109.7	153.6	188.1	163.0	112.9
20969.9	75°	10094.6	658.3	125.4	97.2	72.1	65.8	112.9	141.1	112.9	69.0
9304.6	77.5°	3862.3	275.9	69.0	43.9	37.6	31.3	62.7	84.6	47.0	15.7
1802.6	80°	743.0	116.0	34.5	21.9	18.8	12.5	9.4	6.3	0.0	0.0
319.8	82.5°	128.5	37.6	12.5	6.3	0.0	0.0	0.0	0.0	0.0	0.0
62.7	85°	43.9	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21.9	87.5°	15.7	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>
5821.7
3533.1
2069.1
1683.5
1555.0
1435.8
1323.0
1219.5
1119.2
1022.0
924.8
846.4
780.6
730.5
683.4
645.8
595.6
554.9
526.7
498.5
479.7
464.0
445.2
423.2
385.6
313.5
219.4
185.0
147.3
106.6
59.6
12.5
0.0
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