

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: P957317

Luminaire Tested: **GALN-SB9C-950-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957317
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-SB9C-950-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 5000K, 615mA 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: 40177 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

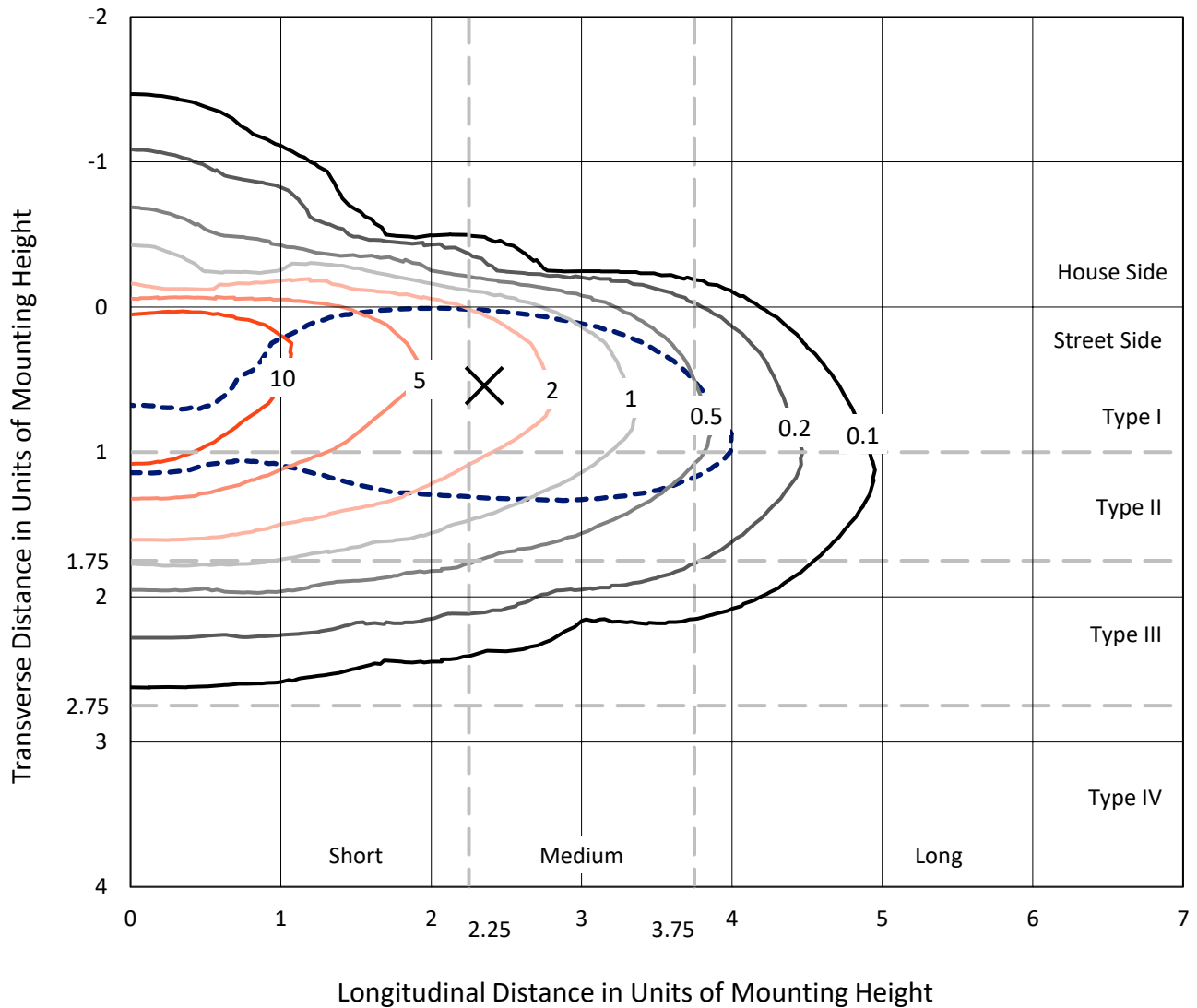
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

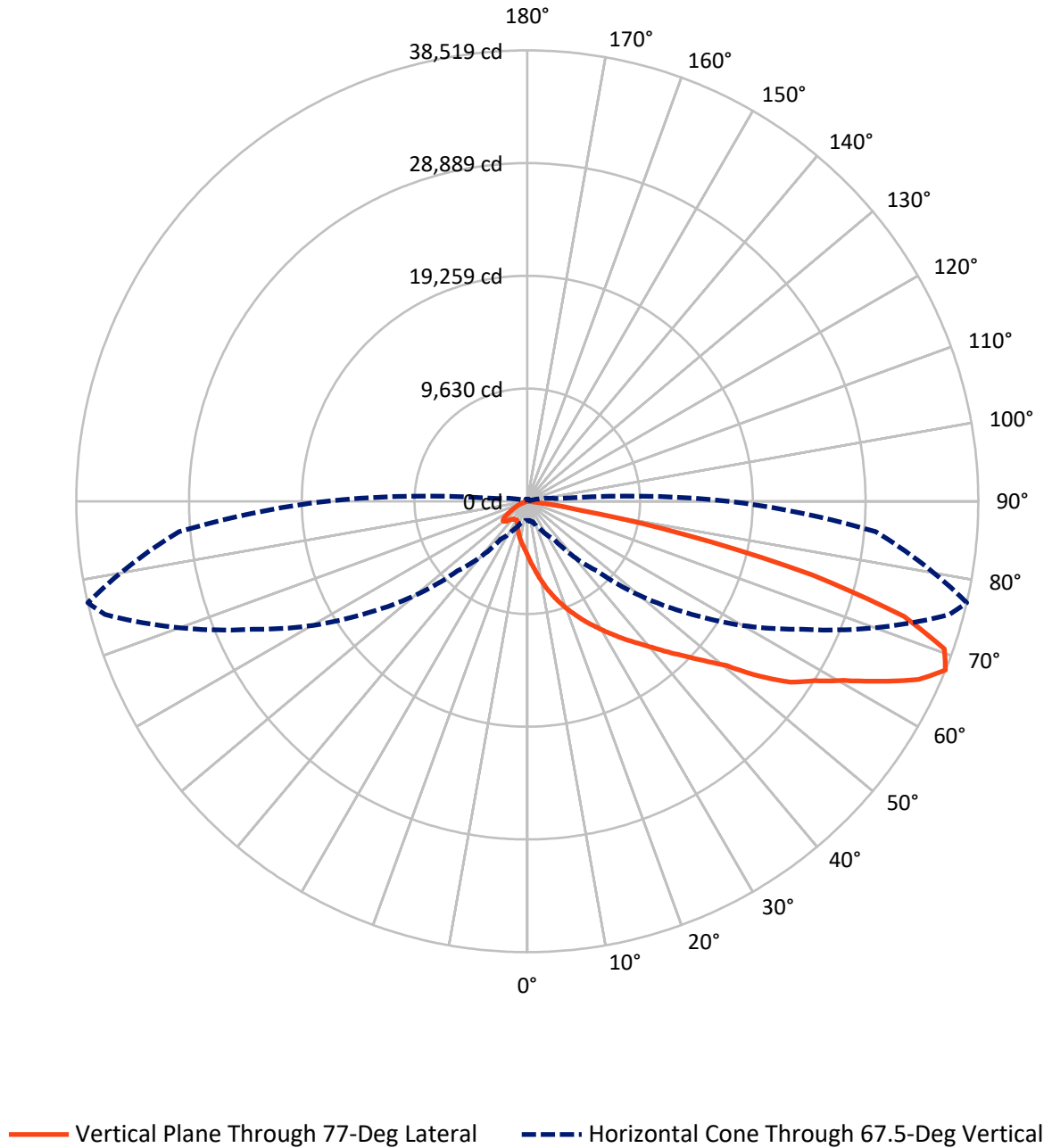
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 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	2955.8	0.0	2955.8
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	37221.2	0.0	37221.2
	% Fixture	92.6	0.0	92.6
Total	Lumens	40177.0	0.0	40177.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.9	1.2
10°-20°	1655.9	4.1
20°-30°	3195.5	8.0
30°-40°	5547.6	13.8
40°-50°	8054.8	20.0
50°-60°	9250.0	23.0
60°-70°	8030.7	20.0
70°-80°	3782.5	9.4
80°-90°	187.1	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°	40177.0	100.0
0°-180°	40177.0	100.0

Coefficient of Utilization



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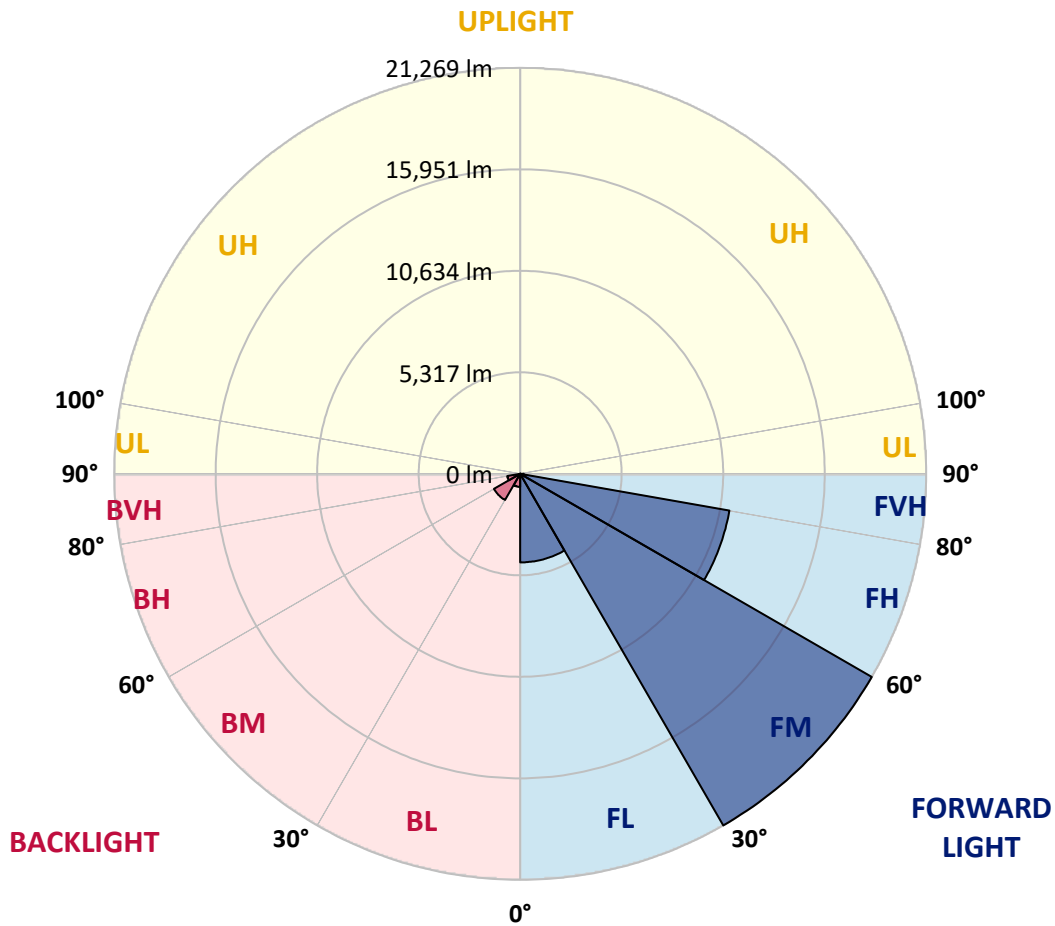
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4640.0	11.5			
FM (30°-60°)	21268.6	52.9			
FH (60°-80°)	11128.9	27.7			G4/12000
FVH (80°-90°)	183.6	0.5			G2/225
BL (0°-30°)	684.3	1.7	B2/1000		
BM (30°-60°)	1583.8	3.9	B2/2500		
BH (60°-80°)	684.3	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4633.0	4633.0	4633.0	4633.0	4633.0	4633.0	4633.0	4633.0	4633.0	4633.0
2.5°	6414.3	6454.3	6396.9	6287.1	6122.4	6015.2	5753.2	5506.2	5231.8	5144.4
5°	7819.0	7853.9	7789.0	7669.3	7449.7	7240.2	6895.9	6379.4	5843.0	5670.9
7.5°	8859.3	8879.3	8854.3	8744.6	8535.0	8298.0	7913.8	7302.5	6506.7	6317.0
10°	9607.8	9672.7	9665.2	9622.8	9483.1	9290.9	8881.8	8185.7	7250.1	7005.6
12.5°	10104.3	10176.6	10219.0	10313.8	10306.4	10184.1	9824.9	9088.9	7991.1	7704.2
15°	10249.0	10326.3	10488.5	10708.0	10902.6	10965.0	10713.0	9974.5	8806.9	8440.2
17.5°	10166.7	10286.4	10481.0	10827.8	11254.4	11536.3	11508.9	10830.3	9547.9	9128.8
20°	10348.8	10463.5	10615.7	10907.6	11404.1	11915.6	12120.1	11648.6	10283.9	9844.8
22.5°	11356.7	11336.8	11351.7	11399.1	11696.0	12202.5	12624.1	12392.1	11012.4	10563.3
25°	12953.4	12863.6	12711.4	12454.5	12379.6	12624.1	13063.2	13050.7	11780.8	11299.3
27.5°	14784.7	14769.7	14412.9	13794.2	13444.9	13350.1	13559.7	13691.9	12541.8	12027.8
30°	16538.6	16578.5	16097.0	15408.4	14767.2	14395.5	14205.9	14300.7	13315.2	12813.7
32.5°	18065.5	18107.9	17583.9	16778.1	15984.7	15535.6	15136.5	14901.9	14158.5	13612.1
35°	19355.3	19397.7	18796.5	17905.8	17060.0	16653.3	16201.8	15560.6	15006.7	14497.8
37.5°	20507.9	20495.5	19689.6	18791.5	17960.7	17638.8	17401.8	16371.4	15879.9	15388.4
40°	21189.0	21241.4	20552.9	19562.4	18756.5	18522.0	18507.0	17376.9	16887.9	16411.3
42.5°	21388.6	21480.9	20982.0	20168.6	19437.6	19183.2	19574.9	18464.6	18060.5	17596.4
45°	21029.4	21119.2	20892.2	20328.3	19901.7	19737.0	20493.0	19592.3	19312.9	18853.8
47.5°	19981.5	20093.8	20148.7	20028.9	20023.9	20191.1	21316.3	20779.9	20799.8	20330.8
50°	17953.2	18142.8	18646.8	19070.9	19727.0	20550.4	22117.1	22067.2	22476.4	22072.2
52.5°	14265.7	14535.2	16271.6	17431.8	18906.2	20483.0	22997.8	24133.0	25417.9	24826.6
55°	11464.0	11464.0	12876.1	15046.6	17304.5	20038.9	23382.0	25475.3	27421.3	27281.6
57.5°	9345.8	9458.1	10358.8	12277.3	14986.8	18981.1	23619.1	26318.5	29035.5	28933.2
60°	5768.2	6010.2	7711.7	9605.3	12349.7	17097.4	23469.4	27171.8	30993.9	31076.3
62.5°	3248.3	3338.2	4096.6	6910.8	9602.8	14565.1	22324.2	27648.3	33498.8	33848.1
65°	2242.9	2287.8	2579.7	4301.2	6656.3	11596.2	20086.3	27351.4	36008.7	36714.7
67.5°	1629.2	1651.6	1833.7	2627.1	3949.4	8407.8	16578.5	25854.5	37338.4	38518.5
70°	1252.4	1267.4	1399.6	1726.5	2332.7	5189.4	12040.3	22878.1	36375.4	37785.0
72.5°	1017.9	1032.9	1135.2	1277.4	1546.8	3068.7	7297.5	18579.4	32124.1	33646.0
75°	858.2	878.2	970.5	1062.8	1212.5	1971.0	3423.0	12938.5	24158.0	25155.9
77.5°	476.5	439.1	788.4	880.7	1022.9	1247.4	1601.7	7614.4	13529.8	13806.7
80°	296.9	306.9	626.2	708.5	785.9	628.7	733.5	2931.5	4690.4	4455.9
82.5°	17.5	39.9	481.5	511.5	538.9	269.4	276.9	995.5	1130.2	1037.9
85°	0.0	0.0	219.5	177.1	187.1	77.3	79.8	232.0	152.2	164.7
87.5°	0.0	0.0	0.0	5.0	0.0	7.5	15.0	20.0	7.5	10.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4633.0	0°	4633.0	4633.0	4633.0	4633.0	4633.0	4633.0	4633.0	4633.0	4633.0	4633.0
4870.0	2.5°	4695.4	4520.7	4166.5	3819.7	3537.7	3275.8	3088.7	2911.5	2821.7	2816.7
5184.4	5°	4837.6	4470.8	3762.3	3136.1	2632.1	2227.9	1966.0	1778.9	1684.0	1651.6
5571.1	7.5°	5037.2	4485.8	3408.0	2537.3	1943.5	1596.7	1447.0	1387.2	1367.2	1344.7
6007.7	10°	5289.2	4520.7	3091.2	2043.3	1531.9	1357.2	1297.3	1272.4	1257.4	1242.5
6499.2	12.5°	5571.1	4553.2	2776.8	1696.5	1347.2	1257.4	1215.0	1185.1	1165.1	1147.6
7003.1	15°	5845.5	4573.1	2450.0	1454.5	1252.4	1180.1	1135.2	1102.7	1075.3	1055.3
7497.1	17.5°	6117.5	4600.6	2143.1	1309.8	1175.1	1102.7	1057.8	1017.9	995.5	973.0
8016.1	20°	6419.3	4595.6	1853.7	1207.5	1097.7	1025.4	978.0	940.6	918.1	893.2
8564.9	22.5°	6698.8	4570.6	1599.2	1120.2	1017.9	948.1	895.7	858.2	835.8	815.8
9126.3	25°	7020.6	4550.7	1387.2	1040.4	943.1	873.2	815.8	780.9	755.9	738.5
9690.1	27.5°	7330.0	4520.7	1232.5	968.0	870.7	803.4	748.5	708.5	686.1	673.6
10271.4	30°	7634.3	4513.2	1175.1	898.2	805.8	738.5	683.6	646.2	628.7	623.7
10910.1	32.5°	8001.1	4533.2	1200.0	873.2	746.0	678.6	626.2	598.8	581.3	581.3
11621.2	35°	8392.8	4528.2	1237.5	895.7	706.1	618.7	578.8	561.3	543.9	543.9
12409.6	37.5°	8884.3	4535.7	1267.4	933.1	691.1	568.8	546.4	523.9	513.9	513.9
13272.8	40°	9617.8	4782.7	1252.4	965.5	686.1	533.9	489.0	481.5	474.0	474.0
14248.3	42.5°	10515.9	5319.1	1272.4	968.0	683.6	509.0	449.1	464.0	446.6	444.1
15348.5	45°	11498.9	5905.4	1399.6	915.6	681.1	496.5	429.1	446.6	419.1	419.1
16623.4	47.5°	12474.4	6486.7	1529.4	840.8	673.6	494.0	411.7	401.7	394.2	396.7
18285.0	50°	13819.2	6960.7	1579.3	738.5	656.2	489.0	379.2	381.7	376.7	381.7
20627.7	52.5°	15283.7	7060.5	1519.4	623.7	606.3	474.0	356.8	366.7	364.3	369.2
22276.8	55°	16196.8	6953.2	1254.9	518.9	528.9	414.2	334.3	354.3	354.3	354.3
23888.5	57.5°	17139.8	6496.7	890.7	421.6	439.1	339.3	314.4	341.8	339.3	336.8
25829.5	60°	17818.5	5758.2	586.3	346.8	349.3	279.4	291.9	321.8	319.3	306.9
27830.4	62.5°	18324.9	4942.4	376.7	294.4	267.0	252.0	267.0	291.9	281.9	254.5
29526.9	65°	18267.5	3812.2	289.4	252.0	219.5	219.5	232.0	254.5	224.5	179.6
29851.3	67.5°	17202.2	2579.7	239.5	212.1	184.6	182.1	192.1	212.1	192.1	152.2
28189.7	70°	15298.6	1686.5	192.1	164.7	147.2	134.7	154.7	182.1	162.2	122.2
23998.3	72.5°	12417.0	1027.9	144.7	119.8	107.3	87.3	122.2	149.7	129.7	89.8
16688.3	75°	8033.5	523.9	99.8	77.3	57.4	52.4	89.8	112.3	89.8	54.9
7404.8	77.5°	3073.7	219.5	54.9	34.9	29.9	24.9	49.9	67.4	37.4	12.5
1434.6	80°	591.3	92.3	27.4	17.5	15.0	10.0	7.5	5.0	0.0	0.0
254.5	82.5°	102.3	29.9	10.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
49.9	85°	34.9	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5	87.5°	12.5	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>
4633.0
2811.7
1646.6
1339.8
1237.5
1142.7
1052.8
970.5
890.7
813.3
736.0
673.6
621.2
581.3
543.9
513.9
474.0
441.6
419.1
396.7
381.7
369.2
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336.8
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