

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: P944618

Luminaire Tested: **GALN-SB9C-927-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944618
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-927-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31438 lumens
Efficiency: N/A
Efficacy: 69.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

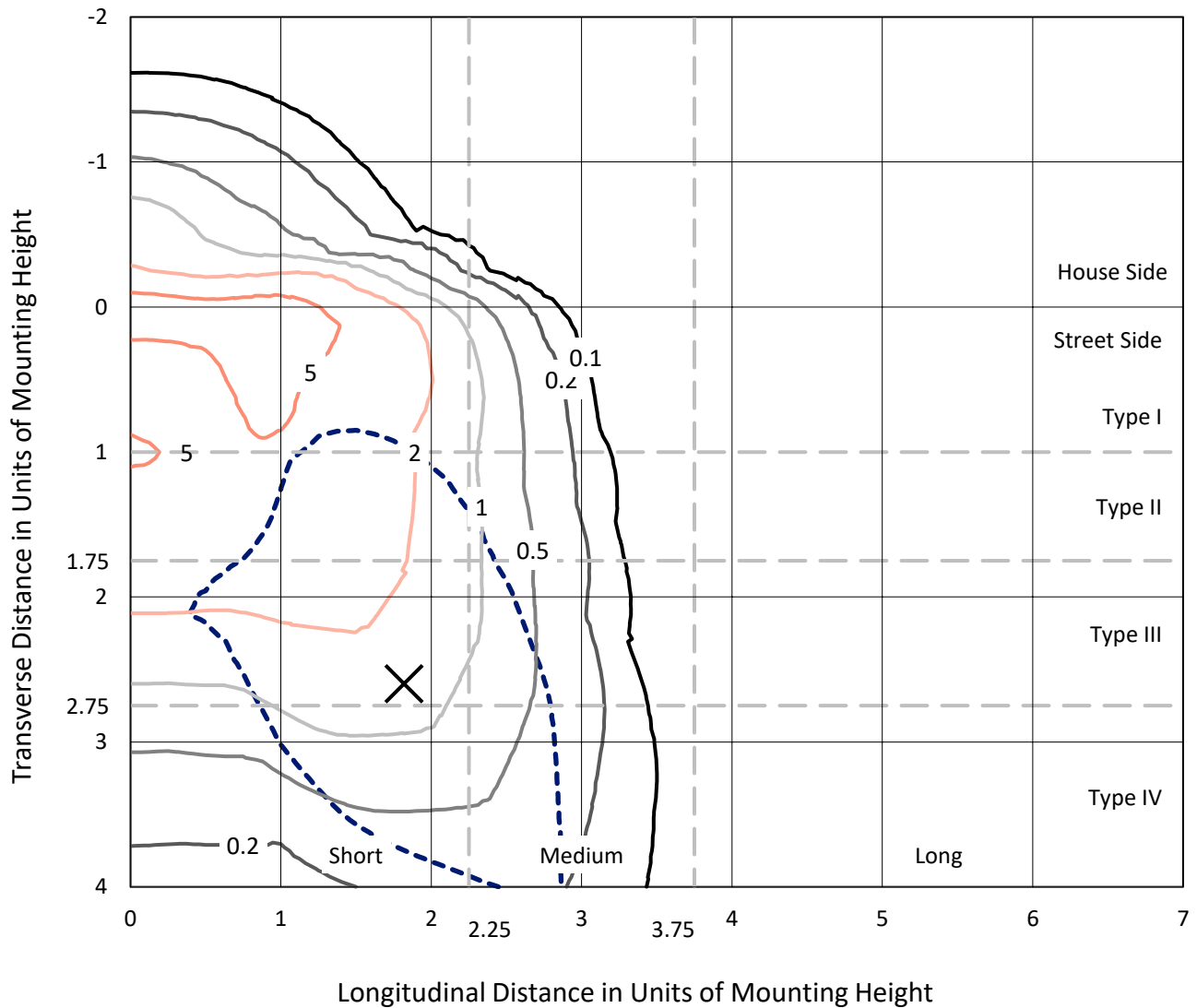
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

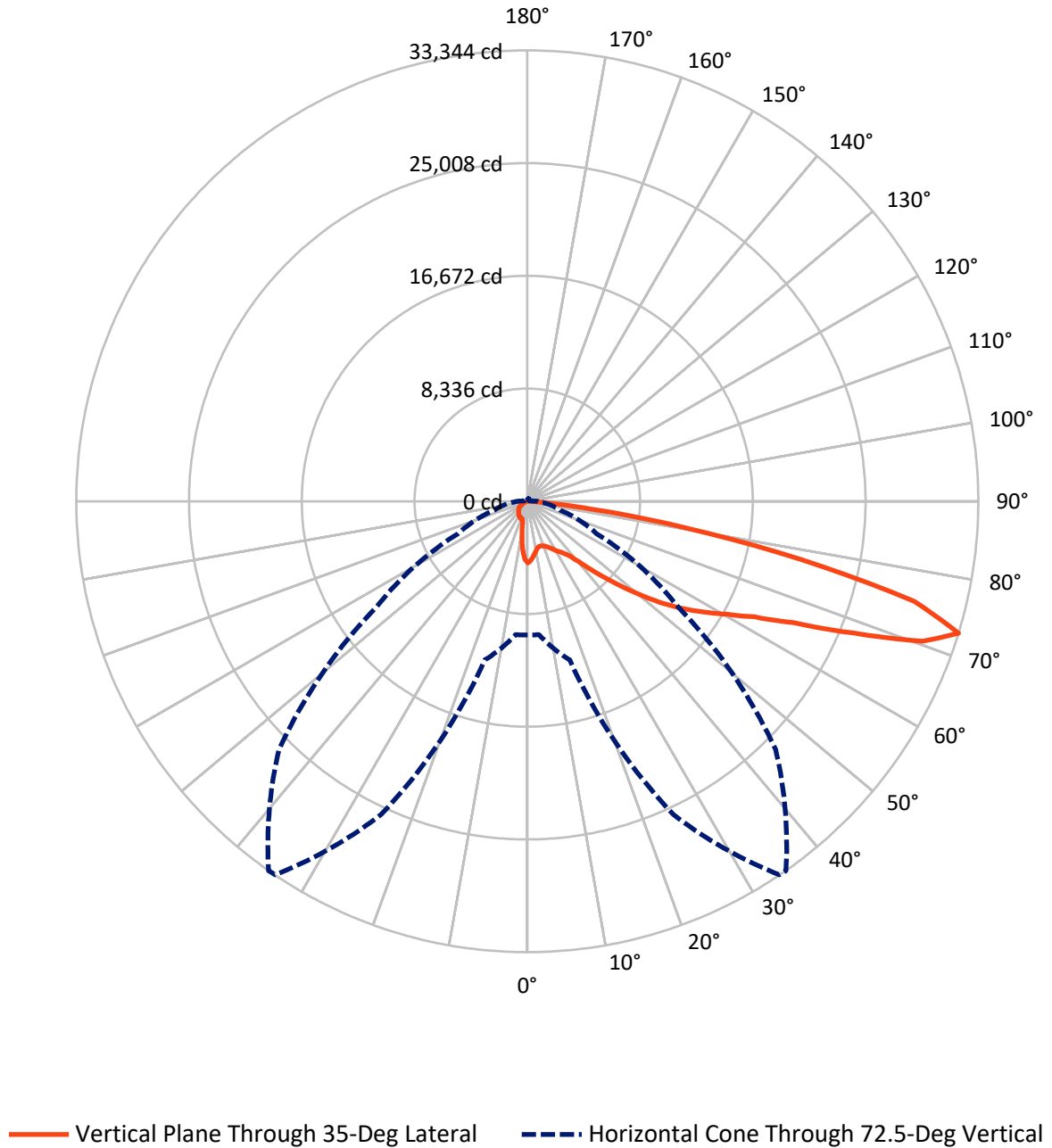
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3538.2	0.0	3538.2
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	27899.8	0.0	27899.8
	% Fixture	88.7	0.0	88.7
Total	Lumens	31438.0	0.0	31438.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.4	1.2
10°-20°	875.9	2.8
20°-30°	1422.9	4.5
30°-40°	2374.1	7.6
40°-50°	4491.8	14.3
50°-60°	7137.4	22.7
60°-70°	8829.5	28.1
70°-80°	5488.5	17.5
80°-90°	443.6	1.4
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°	31438.0	100.0
0°-180°	31438.0	100.0

Coefficient of Utilization



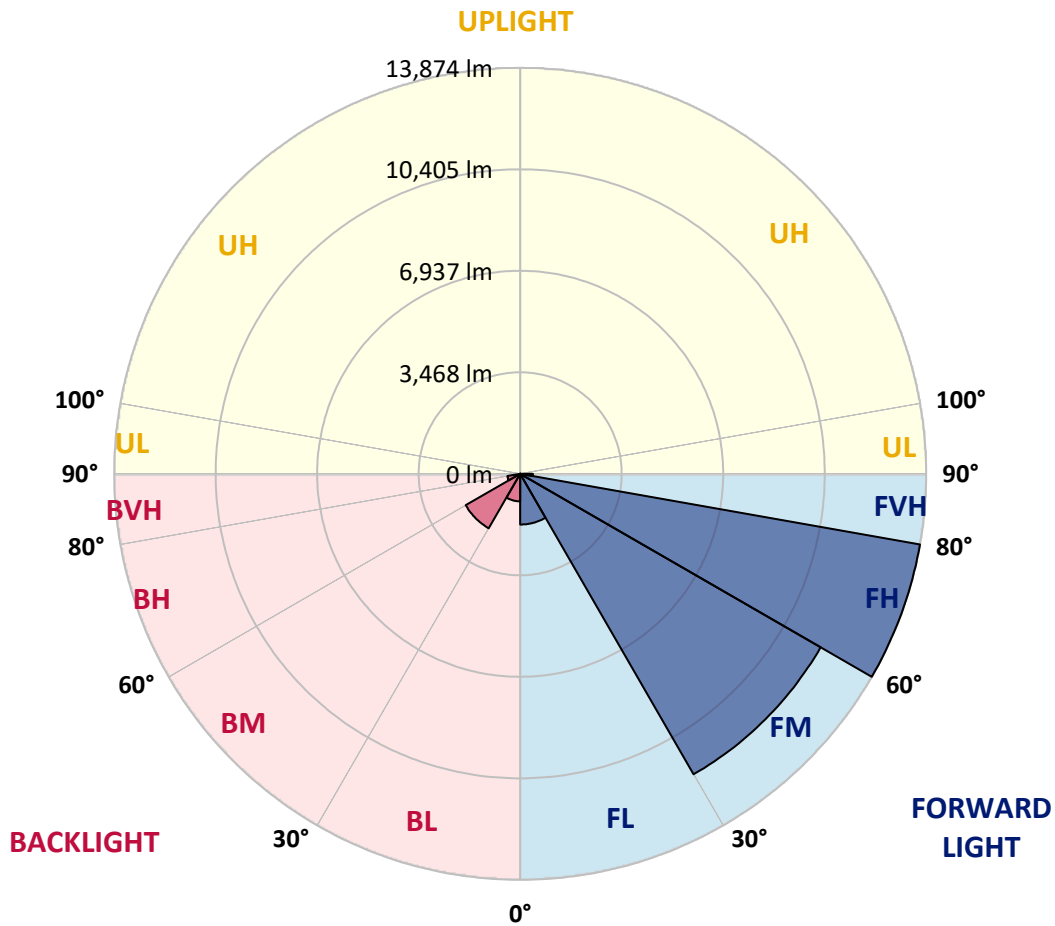
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1733.0	5.5			
FM (30°-60°)	11855.3	37.7			
FH (60°-80°)	13874.0	44.1			G5
FVH (80°-90°)	437.5	1.4			G3/500
BL (0°-30°)	940.2	3.0	B2/1000		
BM (30°-60°)	2148.0	6.8	B2/2500		
BH (60°-80°)	444.0	1.4	B1/500		G1/500
BVH (80°-90°)	6.0	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	4556.4	4556.4	4556.4	4556.4	4556.4	4556.4	4556.4	4556.4	4556.4	4556.4
2.5°	4353.7	4390.6	4397.5	4409.0	4409.0	4422.8	4445.8	4478.1	4531.1	4558.7
5°	4012.8	4040.4	4075.0	4102.6	4155.6	4162.5	4252.4	4339.9	4462.0	4554.1
7.5°	3669.6	3701.8	3747.9	3814.7	3883.8	3904.5	4040.4	4187.9	4381.4	4554.1
10°	3427.7	3430.0	3471.4	3538.3	3648.8	3674.2	3840.0	4049.6	4291.5	4526.5
12.5°	3291.8	3307.9	3326.3	3377.0	3483.0	3499.1	3676.5	3922.9	4201.7	4510.3
15°	3291.8	3303.3	3314.8	3340.1	3425.4	3439.2	3595.8	3842.3	4155.6	4517.3
17.5°	3326.3	3344.8	3335.5	3365.5	3455.3	3464.5	3602.8	3819.3	4153.3	4561.0
20°	3409.3	3423.1	3404.6	3423.1	3512.9	3531.3	3674.2	3863.1	4192.5	4637.0
22.5°	3540.6	3547.5	3503.7	3517.5	3609.7	3632.7	3798.6	3987.4	4286.9	4759.1
25°	3706.4	3720.2	3653.4	3669.6	3757.1	3784.7	3975.9	4174.0	4436.6	4927.3
27.5°	3897.6	3904.5	3846.9	3844.6	3957.5	3996.7	4190.2	4404.4	4637.0	5139.2
30°	4116.4	4137.2	4081.9	4072.7	4215.5	4247.7	4438.9	4687.7	4931.9	5457.1
32.5°	4289.2	4305.3	4273.1	4296.1	4441.2	4466.6	4740.7	5088.5	5394.9	5908.6
35°	4538.0	4547.2	4473.5	4515.0	4680.8	4745.3	5153.0	5650.6	5977.7	6475.3
37.5°	5438.7	5438.7	5125.4	4920.4	5079.3	5136.9	5717.4	6357.8	6696.4	7235.4
40°	6684.9	6664.2	6205.8	5786.5	5765.8	5878.7	6521.3	7249.3	7624.7	8147.7
42.5°	8014.0	7981.8	7357.5	6942.9	6873.8	6913.0	7449.7	8348.1	8730.5	9260.3
45°	9193.5	9184.3	8613.0	8055.5	7931.1	8055.5	8608.4	9633.4	9907.6	10465.0
47.5°	10181.7	10181.7	9764.7	9400.8	9336.3	9410.0	10177.1	11059.3	11034.0	11748.1
50°	11319.6	11310.4	10914.2	10757.6	10824.4	10928.0	11983.1	12561.3	12199.6	13008.1
52.5°	12116.7	12172.0	12036.0	12010.7	12351.6	12531.3	13816.7	14030.9	13243.1	14203.7
55°	12747.8	12812.3	12969.0	13146.4	13802.9	14037.8	15592.7	15424.6	14116.1	15240.3
57.5°	13641.6	13549.5	13791.3	14141.5	15203.4	15486.8	17313.5	16739.9	14818.7	16081.1
60°	14726.6	14740.4	14781.9	15224.2	16601.7	16965.6	19008.9	17983.8	15270.2	16597.1
62.5°	16030.4	16051.1	16136.4	16815.9	18479.1	18822.3	20814.9	19002.0	15477.5	16451.9
65°	15940.6	16028.1	16979.5	19303.7	21333.2	21671.8	22922.6	19716.1	15164.3	15125.1
67.5°	14521.6	14664.4	16256.1	22275.3	25636.2	26014.0	25470.3	19856.6	13812.1	11761.9
70°	12660.3	12711.0	14625.2	24947.4	30618.8	31001.2	27750.9	18310.9	10481.1	6560.5
72.5°	9886.8	9898.4	12144.3	25567.1	33323.1	33343.9	25961.0	13593.2	5636.8	2520.1
75°	7062.7	6993.6	8133.8	20734.2	29317.3	29552.2	19462.7	6376.2	2153.8	1190.9
77.5°	3787.0	3863.1	4602.5	12296.3	20252.8	20653.6	10619.4	1838.2	1096.5	810.8
80°	1170.2	1234.7	1886.6	5629.9	11471.7	11713.5	3936.8	817.8	764.8	578.2
82.5°	368.6	382.4	880.0	2365.7	4761.4	4872.0	1140.3	463.0	522.9	382.4
85°	106.0	108.3	391.6	882.3	1177.1	1200.1	320.2	179.7	299.5	237.3
87.5°	11.5	36.9	147.4	147.4	103.7	101.4	34.6	39.2	85.2	29.9
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°
4556.4	0°	4556.4	4556.4	4556.4	4556.4	4556.4	4556.4	4556.4	4556.4	4556.4	4556.4
4577.2	2.5°	4565.6	4567.9	4538.0	4487.3	4432.0	4386.0	4328.4	4282.3	4250.0	4240.8
4618.6	5°	4597.9	4581.8	4496.5	4342.2	4157.9	3999.0	3821.6	3681.1	3588.9	3549.8
4662.4	7.5°	4646.3	4600.2	4413.6	4109.5	3757.1	3443.8	3125.9	2879.4	2722.8	2644.5
4703.8	10°	4687.7	4595.6	4275.4	3773.2	3234.2	2759.7	2331.2	2034.0	1868.2	1789.9
4752.2	12.5°	4726.9	4593.3	4095.7	3374.7	2644.5	2064.0	1665.5	1518.0	1472.0	1455.8
4830.5	15°	4800.6	4600.2	3870.0	2918.6	2057.1	1559.5	1414.4	1412.1	1421.3	1416.7
4950.3	17.5°	4902.0	4607.1	3614.3	2434.9	1587.1	1375.2	1368.3	1389.0	1402.9	1396.0
5100.1	20°	5033.3	4634.7	3342.4	1955.7	1363.7	1329.1	1345.3	1363.7	1375.2	1363.7
5300.5	22.5°	5217.5	4683.1	3045.3	1571.0	1292.3	1301.5	1315.3	1336.1	1347.6	1331.5
5556.2	25°	5443.3	4759.1	2752.7	1366.0	1257.7	1269.3	1290.0	1313.0	1326.8	1310.7
5878.7	27.5°	5735.8	4881.2	2483.2	1319.9	1223.2	1230.1	1260.0	1294.6	1313.0	1292.3
6337.1	30°	6159.7	5081.6	2250.6	1340.7	1202.5	1186.3	1227.8	1276.2	1296.9	1278.5
6961.3	32.5°	6721.8	5365.0	2107.7	1372.9	1193.2	1135.6	1174.8	1237.0	1271.6	1260.0
7776.8	35°	7458.9	5795.7	2052.5	1409.8	1186.3	1082.7	1110.3	1177.1	1237.0	1248.5
8804.2	37.5°	8352.7	6394.7	2068.6	1425.9	1165.6	1038.9	1052.7	1110.3	1188.6	1225.5
9960.5	40°	9368.5	7092.6	2160.7	1409.8	1142.6	1002.0	1004.3	1048.1	1117.2	1172.5
11204.5	42.5°	10416.6	7908.1	2331.2	1349.9	1121.8	969.8	962.9	992.8	1038.9	1078.1
12446.1	45°	11414.1	8746.6	2499.4	1267.0	1096.5	937.5	921.4	932.9	942.2	958.3
13655.4	47.5°	12284.8	9336.3	2451.0	1190.9	1061.9	900.7	873.0	868.4	840.8	838.5
14735.8	50°	12886.1	9465.3	2176.9	1114.9	1011.3	859.2	815.5	787.8	739.4	716.4
15544.3	52.5°	13077.2	8956.2	1778.3	1038.9	928.3	803.9	741.7	698.0	638.1	617.4
16009.7	55°	12823.9	7958.8	1421.3	946.8	813.2	730.2	661.1	603.5	555.2	529.8
16060.3	57.5°	12204.2	6689.5	1124.1	838.5	691.1	647.3	578.2	520.6	479.1	453.8
15498.3	60°	11176.8	5312.0	889.2	709.5	589.7	557.5	486.0	449.2	412.3	382.4
14047.0	62.5°	9617.3	3791.6	698.0	562.1	493.0	456.1	414.6	387.0	343.2	301.8
11437.1	65°	7505.0	2319.7	539.0	412.3	396.2	377.8	352.4	327.1	274.1	232.7
7461.2	67.5°	4733.8	1098.8	384.7	311.0	313.3	304.1	292.6	271.8	232.7	195.8
3342.4	70°	2084.7	532.1	253.4	237.3	232.7	232.7	241.9	235.0	198.1	163.6
1161.0	72.5°	709.5	285.6	188.9	179.7	168.2	165.9	202.7	195.8	158.9	126.7
578.2	75°	370.9	191.2	138.2	129.0	101.4	122.1	161.2	152.0	112.9	82.9
382.4	77.5°	241.9	135.9	94.4	82.9	57.6	80.6	119.8	106.0	66.8	41.5
251.1	80°	152.0	89.8	55.3	39.2	27.6	43.8	64.5	46.1	25.3	9.2
147.4	82.5°	80.6	46.1	20.7	13.8	11.5	13.8	16.1	11.5	4.6	0.0
76.0	85°	32.2	16.1	6.9	4.6	2.3	0.0	4.6	2.3	0.0	0.0
13.8	87.5°	11.5	2.3	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>
4556.4
4257.0
3563.6
2656.0
1792.2
1451.2
1414.4
1393.6
1361.4
1329.1
1308.4
1292.3
1276.2
1260.0
1248.5
1234.7
1190.9
1094.2
967.5
836.2
718.7
615.0
529.8
449.2
375.5
294.9
225.7
191.2
156.6
<i>119.8</i>
76.0
36.9
6.9
0.0
0.0
0.0
0.0

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