

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: P952577

Luminaire Tested: **GALN-SB6B-850-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952577
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6B-850-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25159 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

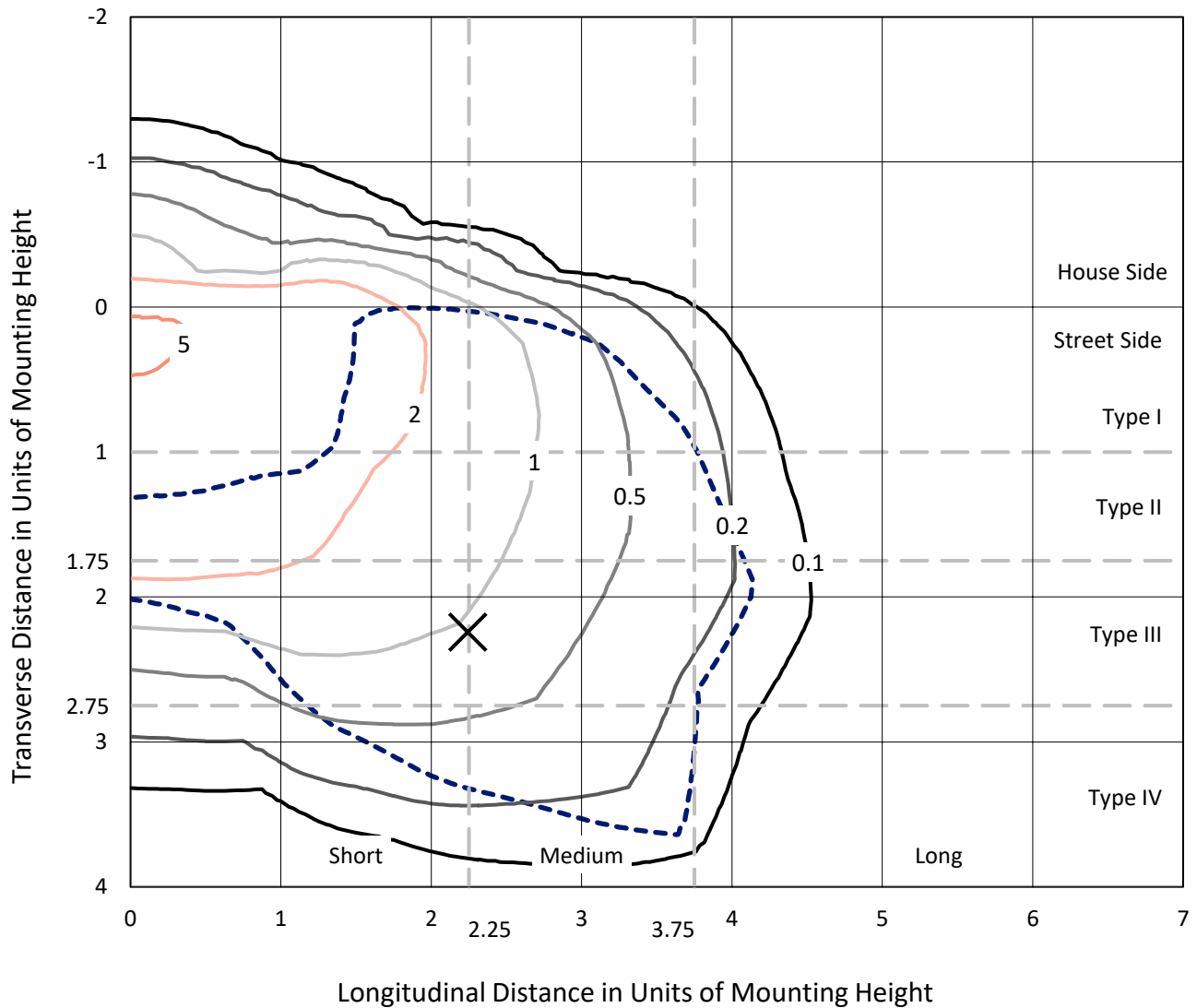
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

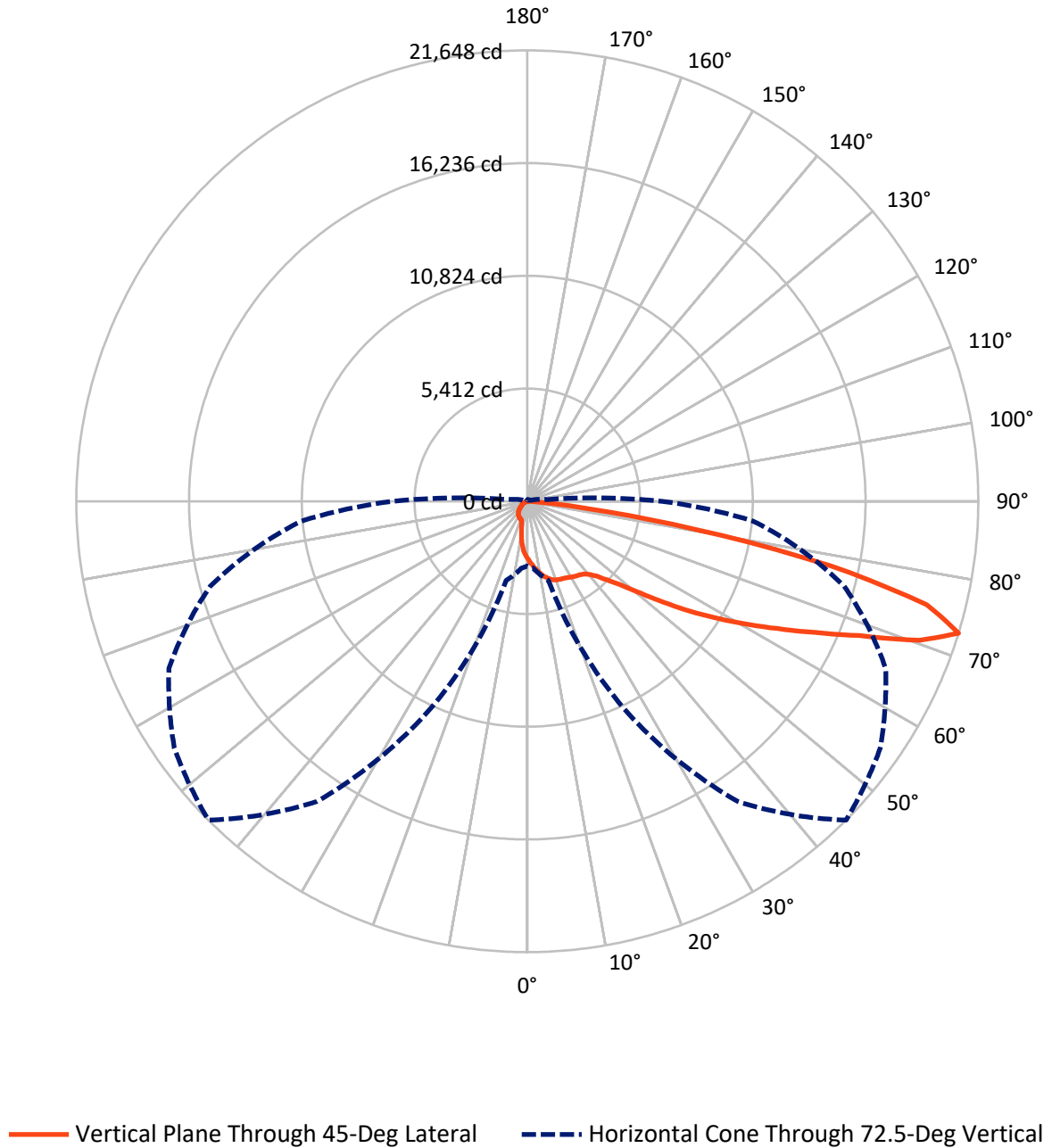
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	2643.5	0.0	2643.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	22515.5	0.0	22515.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	25159.0	0.0	25159.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.7	1.0
10°-20°	759.0	3.0
20°-30°	1246.3	5.0
30°-40°	1767.6	7.0
40°-50°	2921.7	11.6
50°-60°	5248.5	20.9
60°-70°	7287.8	29.0
70°-80°	5286.3	21.0
80°-90°	382.2	1.5
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°	25159.0	100.0
0°-180°	25159.0	100.0

Coefficient of Utilization



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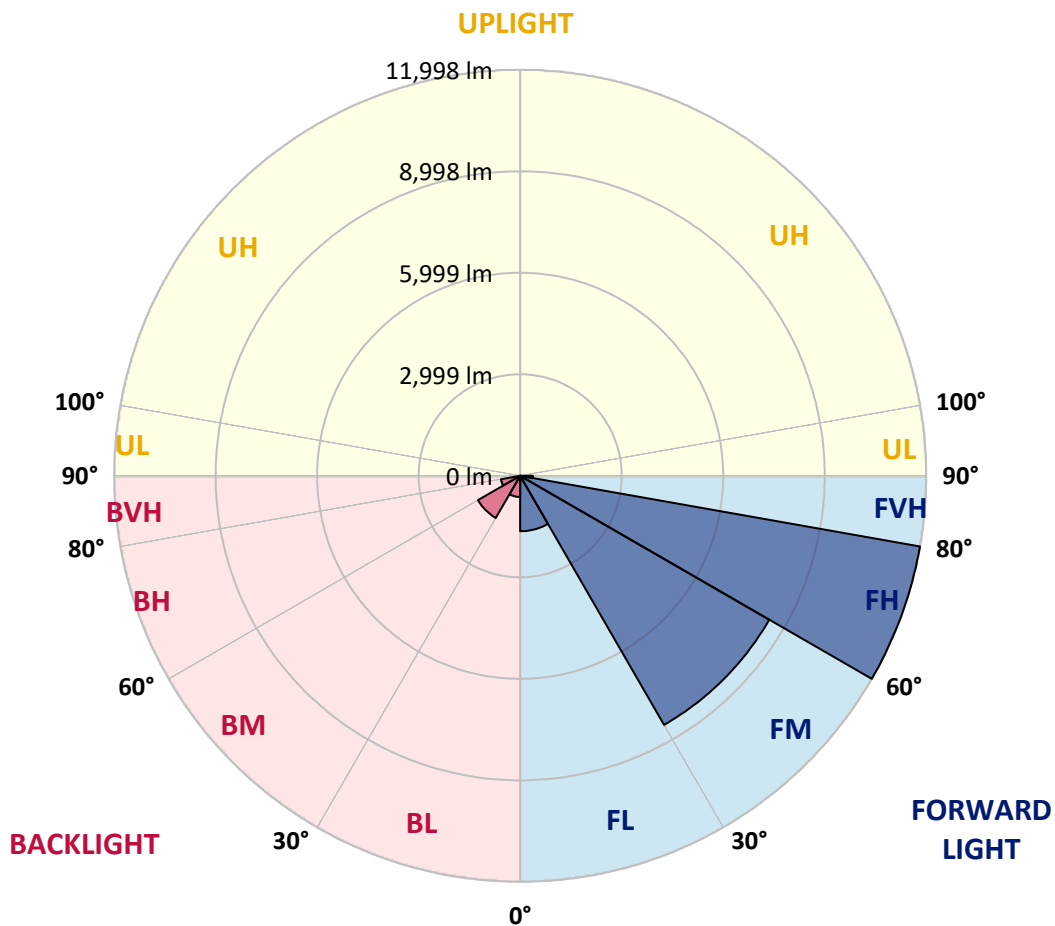
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1638.9	6.5			
FM (30°-60°)	8500.0	33.8			
FH (60°-80°)	11997.6	47.7			G4/12000
FVH (80°-90°)	379.0	1.5			G3/500
BL (0°-30°)	626.1	2.5	B2/1000		
BM (30°-60°)	1437.7	5.7	B2/2500		
BH (60°-80°)	576.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.2	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2756.2	2756.2	2756.2	2756.2	2756.2	2756.2	2756.2	2756.2	2756.2	2756.2
2.5°	3010.4	3015.5	3012.1	2991.5	2957.1	2938.3	2927.9	2893.6	2871.3	2831.8
5°	3286.9	3307.5	3295.4	3254.2	3189.0	3142.6	3128.9	3058.5	2994.9	2921.1
7.5°	3580.5	3590.8	3568.5	3515.3	3427.7	3348.7	3336.7	3238.8	3137.5	3024.1
10°	3834.7	3846.7	3812.3	3735.1	3635.5	3537.6	3520.4	3412.2	3292.0	3152.9
12.5°	4047.6	4059.6	4015.0	3922.2	3812.3	3711.0	3693.9	3580.5	3448.3	3293.7
15°	4209.0	4231.4	4171.3	4071.7	3953.2	3851.8	3843.3	3731.6	3602.8	3431.1
17.5°	4303.5	4325.8	4269.1	4148.9	4047.6	3961.7	3951.4	3858.7	3738.5	3573.6
20°	4318.9	4339.5	4279.4	4174.7	4090.5	4021.9	4016.7	3949.7	3862.1	3704.2
22.5°	4272.6	4298.3	4243.4	4159.2	4100.8	4064.8	4057.9	4020.1	3970.3	3836.4
25°	4224.5	4245.1	4203.9	4130.0	4099.1	4095.7	4100.8	4094.0	4083.7	3970.3
27.5°	4221.1	4243.4	4197.0	4126.6	4109.4	4145.5	4150.6	4183.3	4191.9	4092.3
30°	4250.2	4265.7	4221.1	4147.2	4138.6	4221.1	4222.8	4281.2	4294.9	4195.3
32.5°	4313.8	4331.0	4286.3	4178.1	4166.1	4281.2	4286.3	4363.6	4385.9	4305.2
35°	4463.2	4483.8	4432.3	4264.0	4221.1	4337.8	4353.3	4444.3	4488.9	4422.0
37.5°	4835.8	4775.7	4705.3	4437.4	4346.4	4427.1	4452.9	4559.4	4638.4	4561.1
40°	5761.4	5572.5	5352.7	4732.8	4566.2	4617.7	4638.4	4744.8	4853.0	4777.5
42.5°	7150.7	6927.5	6573.7	5412.8	4897.7	4923.4	4938.9	5031.6	5184.4	5124.3
45°	8388.9	8308.2	7947.5	6573.7	5517.6	5390.5	5409.4	5457.5	5682.5	5660.1
47.5°	9340.2	9293.9	9015.7	7906.3	6565.1	5962.4	6015.6	6037.9	6362.5	6441.5
50°	10071.8	10054.6	9805.6	9091.2	7933.8	6805.5	6824.4	6776.4	7262.3	7458.1
52.5°	10762.1	10820.5	10636.8	10192.0	9395.2	7909.8	7906.3	7679.6	8335.6	8631.0
55°	11385.5	11406.1	11425.0	11315.1	10865.2	9166.8	9134.2	8763.2	9580.7	9886.3
57.5°	11971.1	11979.7	12148.0	12372.9	12395.3	10516.6	10456.5	10011.7	10940.7	11158.8
60°	12364.4	12403.9	12759.3	13384.4	13657.5	11909.3	11876.7	11423.3	12324.9	12426.2
62.5°	11797.7	12038.1	12934.5	14174.4	14849.3	13453.1	13437.7	13011.8	13781.1	13698.7
65°	9549.8	9956.7	11533.2	14708.4	16018.7	15177.3	15199.6	14746.2	15276.9	15009.0
67.5°	6680.2	7109.5	8974.5	14751.4	17325.6	17201.9	17330.7	16619.8	16865.3	16264.3
70°	4619.5	4841.0	6055.1	13827.5	18343.9	19990.8	19987.3	18920.9	18445.2	16836.1
72.5°	3106.5	3221.6	3932.6	10969.9	17595.2	21647.9	21548.3	20679.4	18977.6	15745.7
75°	1310.3	1394.4	1820.3	6165.0	13920.2	19805.3	19535.7	18275.2	16861.9	12398.7
77.5°	415.6	451.6	717.8	2206.7	7667.6	14887.0	14602.0	11413.0	11301.4	6220.0
80°	197.5	230.1	403.6	886.1	3017.2	8096.9	8057.4	5177.6	4861.6	1679.5
82.5°	85.9	101.3	223.2	474.0	1349.8	2888.5	2946.8	1761.9	1458.0	637.1
85°	27.5	36.1	103.0	218.1	570.1	717.8	709.2	419.0	587.3	346.9
87.5°	0.0	0.0	34.3	49.8	58.4	41.2	46.4	36.1	163.1	96.2
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°
2756.2	0°	2756.2	2756.2	2756.2	2756.2	2756.2	2756.2	2756.2	2756.2	2756.2	2756.2
2790.6	2.5°	2770.0	2742.5	2694.4	2649.8	2610.3	2570.8	2546.7	2512.4	2508.9	2508.9
2835.2	5°	2788.9	2744.2	2658.3	2567.3	2462.6	2363.0	2263.4	2167.2	2136.3	2114.0
2907.3	7.5°	2843.8	2773.4	2637.7	2464.3	2265.1	2047.0	1894.2	1729.3	1665.8	1631.4
3003.5	10°	2922.8	2826.6	2620.6	2316.6	1993.8	1696.7	1478.6	1300.0	1231.3	1202.1
3108.3	12.5°	3010.4	2891.9	2589.6	2132.9	1696.7	1341.2	1128.2	1045.8	1035.5	1035.5
3233.6	15°	3115.1	2970.9	2536.4	1916.5	1385.8	1061.3	985.7	989.1	999.5	1006.3
3355.5	17.5°	3223.3	3055.0	2452.3	1674.3	1111.1	954.8	956.5	961.7	970.3	977.1
3487.8	20°	3340.1	3139.2	2340.6	1416.7	953.1	923.9	929.0	934.2	941.1	944.5
3611.4	22.5°	3465.5	3218.2	2208.4	1164.3	899.9	898.1	899.9	905.0	913.6	913.6
3755.7	25°	3599.4	3305.7	2057.3	980.6	872.4	872.4	875.8	879.2	886.1	886.1
3894.8	27.5°	3736.8	3386.5	1897.6	884.4	848.3	846.6	846.6	851.8	855.2	856.9
4032.2	30°	3887.9	3480.9	1737.9	863.8	829.4	820.9	815.7	819.1	822.6	824.3
4176.4	32.5°	4042.5	3571.9	1595.3	872.4	810.6	795.1	777.9	774.5	774.5	781.4
4325.8	35°	4214.2	3671.5	1485.4	901.6	800.2	757.3	729.8	714.4	716.1	726.4
4504.4	37.5°	4420.3	3791.7	1404.7	927.3	793.4	714.4	669.7	650.8	638.8	650.8
4750.0	40°	4689.9	3968.6	1346.3	947.9	784.8	664.6	604.5	573.6	551.2	558.1
5131.2	42.5°	5086.6	4246.8	1324.0	949.7	765.9	606.2	537.5	496.3	463.7	465.4
5704.8	45°	5643.0	4686.4	1439.1	927.3	724.7	542.7	467.1	412.1	391.5	386.4
6561.7	47.5°	6405.4	5327.0	1705.3	881.0	664.6	480.8	398.4	352.0	336.6	328.0
7686.5	50°	7427.2	6149.6	2000.6	829.4	604.5	422.4	341.7	312.5	302.2	293.7
9020.8	52.5°	8612.1	6984.1	2242.8	777.9	544.4	370.9	305.7	288.5	279.9	273.0
10308.8	55°	9699.2	7559.4	2229.0	723.0	486.0	329.7	279.9	269.6	259.3	252.4
11418.1	57.5°	10375.8	7640.1	1837.5	662.9	419.0	297.1	255.9	249.0	237.0	228.4
12378.1	60°	10686.6	7179.9	1288.0	583.9	352.0	266.2	230.1	226.7	211.2	199.2
13286.5	62.5°	10743.3	6324.7	858.6	486.0	293.7	237.0	204.4	199.2	178.6	158.0
14025.0	65°	10513.1	5102.0	594.2	379.5	250.7	206.1	175.2	164.9	142.5	121.9
14200.1	67.5°	9785.0	3582.2	413.9	273.0	212.9	163.1	139.1	135.7	118.5	101.3
13307.1	70°	8450.7	2041.8	276.5	204.4	168.3	111.6	109.9	113.3	96.2	82.4
10872.1	72.5°	6479.3	934.2	171.7	149.4	115.1	75.6	87.6	89.3	73.8	61.8
6783.2	75°	3814.1	400.1	108.2	96.2	58.4	49.8	63.5	65.3	49.8	39.5
2479.7	77.5°	1298.3	151.1	68.7	56.7	29.2	27.5	41.2	41.2	27.5	15.5
498.0	80°	295.4	56.7	34.3	22.3	13.7	12.0	13.7	12.0	6.9	1.7
152.8	82.5°	84.1	22.3	13.7	8.6	5.2	5.2	1.7	0.0	0.0	0.0
53.2	85°	24.0	10.3	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0
18.9	87.5°	10.3	1.7	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°
2756.2
2517.5
2124.3
1636.6
1202.1
1035.5
1006.3
977.1
946.2
917.0
887.8
858.6
827.7
786.5
731.6
647.4
554.7
458.5
379.5
322.8
291.9
271.3
249.0
226.7
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