

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: P942568

Luminaire Tested: **GALN-SB6C-850-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942568
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-SB6C-850-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 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: 32890 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

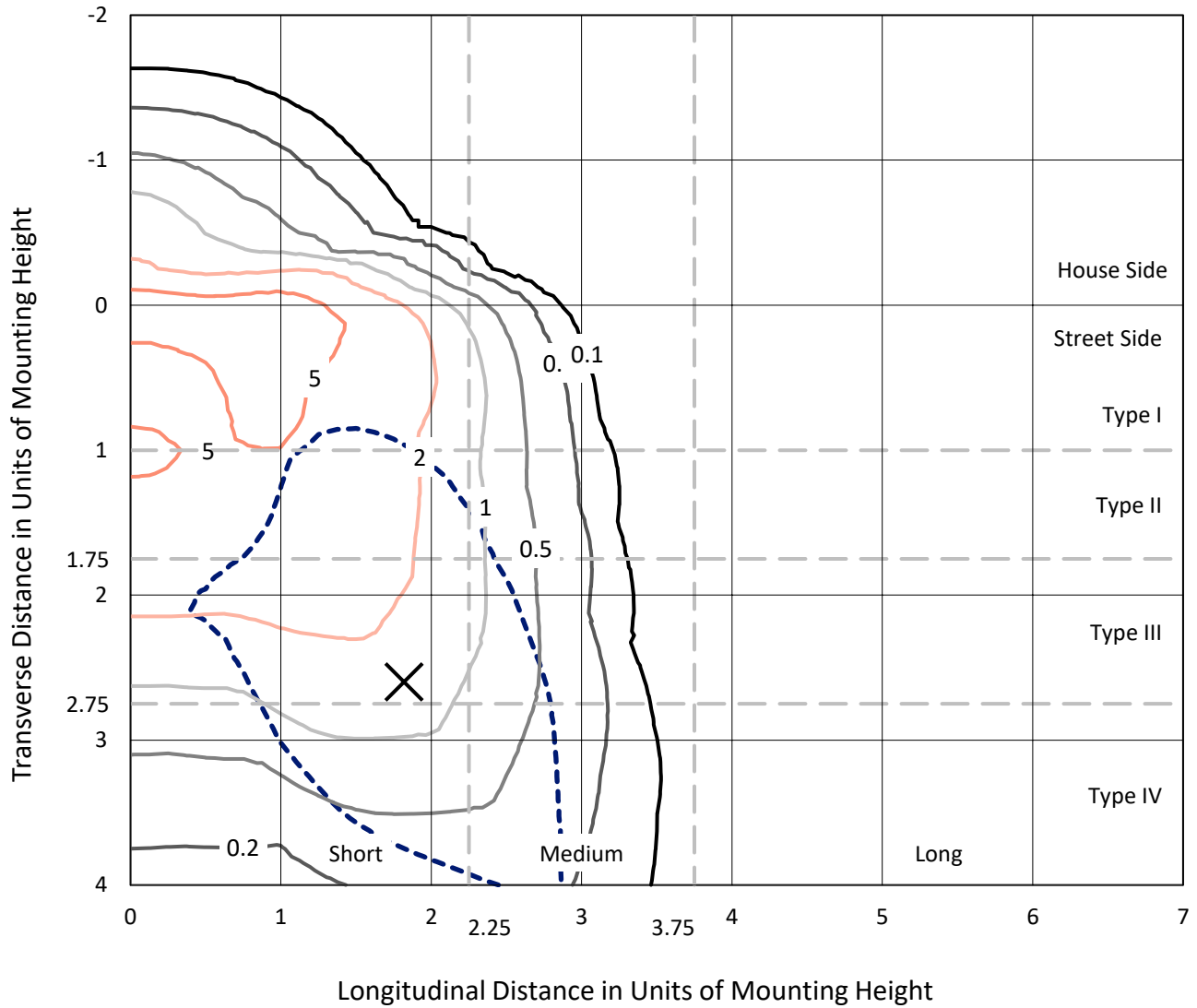
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

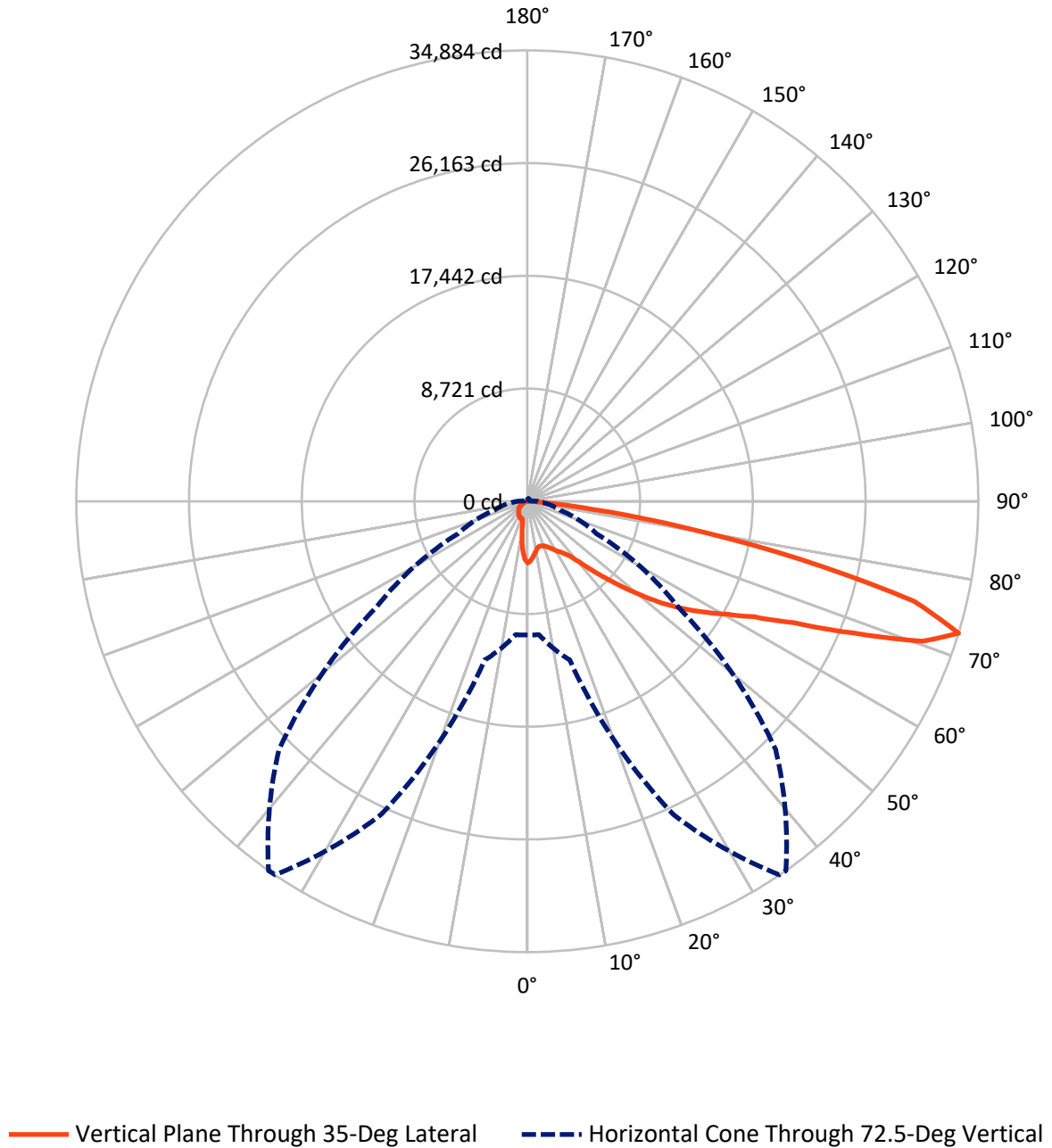
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	3701.6	0.0	3701.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	29188.4	0.0	29188.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	32890.0	0.0	32890.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.7	1.2
10°-20°	916.4	2.8
20°-30°	1488.6	4.5
30°-40°	2483.7	7.6
40°-50°	4699.2	14.3
50°-60°	7467.1	22.7
60°-70°	9237.3	28.1
70°-80°	5742.0	17.5
80°-90°	464.0	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°	32890.0	100.0
0°-180°	32890.0	100.0

Coefficient of Utilization



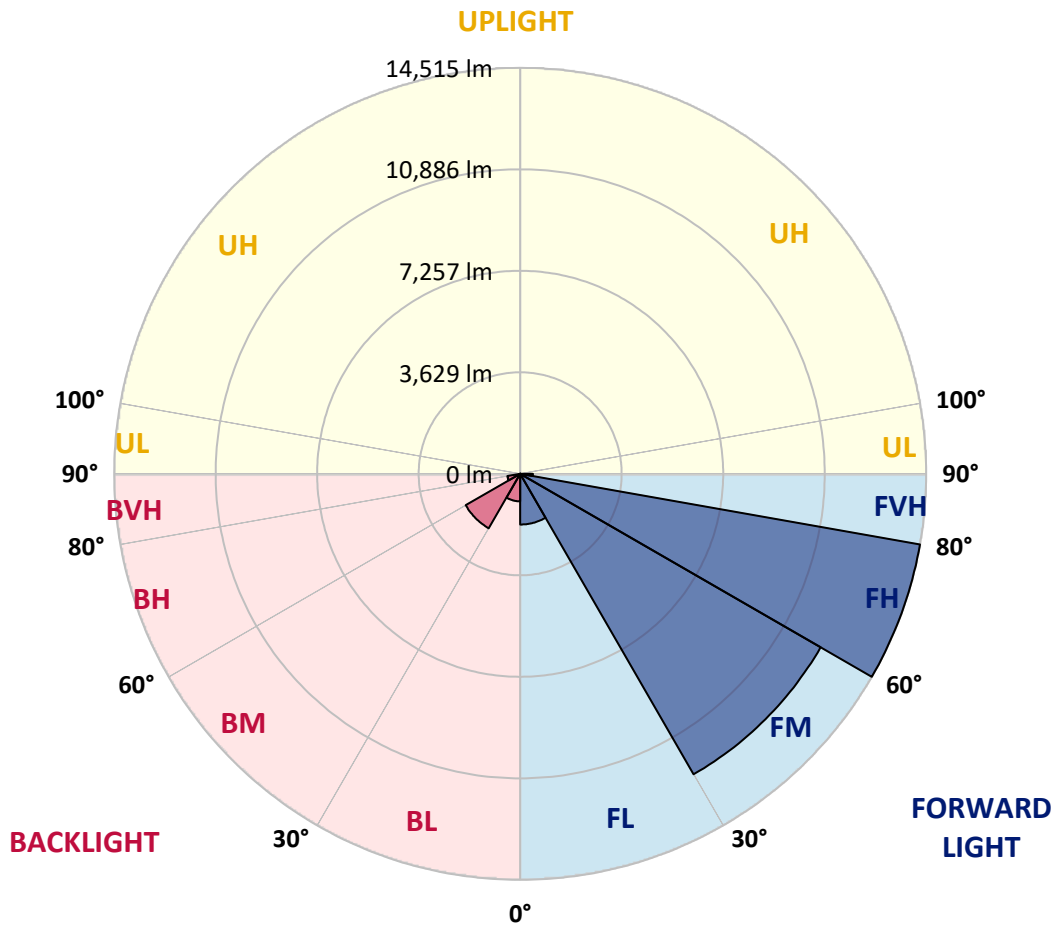
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1813.1	5.5			
FM (30°-60°)	12402.8	37.7			
FH (60°-80°)	14514.8	44.1			G5
FVH (80°-90°)	457.7	1.4			G3/500
BL (0°-30°)	983.6	3.0	B2/1000		
BM (30°-60°)	2247.2	6.8	B2/2500		
BH (60°-80°)	464.5	1.4	B1/500		G1/500
BVH (80°-90°)	6.3	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	4766.9	4766.9	4766.9	4766.9	4766.9	4766.9	4766.9	4766.9	4766.9	4766.9
2.5°	4554.8	4593.3	4600.6	4612.6	4612.6	4627.1	4651.2	4684.9	4740.4	4769.3
5°	4198.1	4227.0	4263.2	4292.1	4347.5	4354.8	4448.8	4540.3	4668.1	4764.5
7.5°	3839.0	3872.8	3921.0	3990.9	4063.2	4084.9	4227.0	4381.3	4583.7	4764.5
10°	3586.0	3588.4	3631.8	3701.7	3817.3	3843.9	4017.4	4236.7	4489.7	4735.5
12.5°	3443.8	3460.7	3480.0	3533.0	3643.8	3660.7	3846.3	4104.1	4395.7	4718.7
15°	3443.8	3455.9	3467.9	3494.4	3583.6	3598.0	3761.9	4019.8	4347.5	4725.9
17.5°	3480.0	3499.2	3489.6	3520.9	3614.9	3624.6	3769.1	3995.7	4345.1	4771.7
20°	3566.7	3581.2	3561.9	3581.2	3675.2	3694.4	3843.9	4041.5	4386.1	4851.2
22.5°	3704.1	3711.3	3665.5	3680.0	3776.4	3800.5	3974.0	4171.6	4484.9	4978.9
25°	3877.6	3892.1	3822.2	3839.0	3930.6	3959.5	4159.6	4366.8	4641.5	5154.9
27.5°	4077.6	4084.9	4024.6	4022.2	4140.3	4181.2	4383.7	4607.8	4851.2	5376.6
30°	4306.6	4328.3	4270.4	4260.8	4410.2	4443.9	4644.0	4904.2	5159.7	5709.2
32.5°	4487.3	4504.2	4470.4	4494.5	4646.4	4672.9	4959.7	5323.6	5644.1	6181.5
35°	4747.6	4757.2	4680.1	4723.5	4897.0	4964.5	5391.0	5911.6	6253.8	6774.3
37.5°	5689.9	5689.9	5362.1	5147.6	5313.9	5374.2	5981.5	6651.4	7005.7	7569.6
40°	6993.6	6972.0	6492.4	6053.8	6032.1	6150.2	6822.5	7584.1	7976.9	8524.0
42.5°	8384.2	8350.4	7697.4	7263.6	7191.3	7232.2	7793.7	8733.6	9133.7	9688.0
45°	9618.1	9608.4	9010.8	8427.6	8297.4	8427.6	9006.0	10078.4	10365.2	10948.4
47.5°	10651.9	10651.9	10215.7	9835.0	9767.5	9844.6	10647.1	11570.1	11543.6	12290.7
50°	11842.5	11832.8	11418.3	11254.4	11324.3	11432.8	12536.5	13141.4	12763.0	13608.9
52.5°	12676.3	12734.1	12591.9	12565.4	12922.1	13110.1	14454.8	14679.0	13854.8	14859.7
55°	13336.6	13404.1	13568.0	13753.5	14440.4	14686.2	16312.9	16137.0	14768.1	15944.2
57.5°	14271.7	14175.3	14428.3	14794.6	15905.6	16202.0	18113.1	17513.0	15503.2	16823.8
60°	15406.8	15421.2	15464.6	15927.3	17368.4	17749.2	19886.8	18814.4	15975.5	17363.6
62.5°	16770.8	16792.5	16881.6	17592.6	19332.5	19691.6	21776.2	19879.6	16192.4	17211.8
65°	16676.8	16768.4	17763.7	20195.3	22318.5	22672.7	23981.3	20626.7	15864.6	15823.7
67.5°	15192.3	15341.7	17007.0	23304.1	26820.2	27215.5	26646.7	20773.7	14450.0	12305.2
70°	13245.0	13298.1	15300.7	26099.7	32032.9	32433.0	29032.6	19156.6	10965.2	6863.5
72.5°	10343.5	10355.5	12705.2	26747.9	34862.2	34883.9	27160.0	14221.1	5897.1	2636.5
75°	7388.9	7316.6	8509.5	21691.9	30671.3	30917.1	20361.6	6670.7	2253.3	1245.9
77.5°	3961.9	4041.5	4815.1	12864.3	21188.2	21607.5	11109.8	1923.1	1147.1	848.3
80°	1224.3	1291.7	1973.7	5889.9	12001.5	12254.6	4118.6	855.5	800.1	604.9
82.5°	385.6	400.1	920.6	2475.0	4981.3	5097.0	1192.9	484.4	547.1	400.1
85°	110.9	113.3	409.7	923.0	1231.5	1255.6	335.0	188.0	313.3	248.2
87.5°	12.0	38.6	154.2	154.2	108.4	106.0	36.1	41.0	89.2	31.3
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°
4766.9	0°	4766.9	4766.9	4766.9	4766.9	4766.9	4766.9	4766.9	4766.9	4766.9	4766.9
4788.6	2.5°	4776.5	4778.9	4747.6	4694.6	4636.7	4588.5	4528.3	4480.1	4446.3	4436.7
4831.9	5°	4810.2	4793.4	4704.2	4542.7	4349.9	4183.7	3998.1	3851.1	3754.7	3713.7
4877.7	7.5°	4860.9	4812.7	4617.4	4299.3	3930.6	3602.9	3270.3	3012.4	2848.6	2766.6
4921.1	10°	4904.2	4807.8	4472.9	3947.5	3383.6	2887.1	2438.9	2128.0	1954.5	1872.5
4971.7	12.5°	4945.2	4805.4	4284.9	3530.6	2766.6	2159.3	1742.4	1588.2	1540.0	1523.1
5053.6	15°	5022.3	4812.7	4048.7	3053.4	2152.1	1631.5	1479.7	1477.3	1486.9	1482.1
5179.0	17.5°	5128.4	4819.9	3781.2	2547.3	1660.4	1438.7	1431.5	1453.2	1467.7	1460.4
5335.6	20°	5265.7	4848.8	3496.8	2046.0	1426.7	1390.5	1407.4	1426.7	1438.7	1426.7
5545.3	22.5°	5458.5	4899.4	3185.9	1643.6	1352.0	1361.6	1376.1	1397.8	1409.8	1392.9
5812.8	25°	5694.7	4978.9	2879.9	1429.1	1315.8	1327.9	1349.6	1373.7	1388.1	1371.3
6150.2	27.5°	6000.8	5106.7	2597.9	1380.9	1279.7	1286.9	1318.2	1354.4	1373.7	1352.0
6629.7	30°	6444.2	5316.3	2354.5	1402.6	1258.0	1241.1	1284.5	1335.1	1356.8	1337.5
7282.8	32.5°	7032.2	5612.8	2205.1	1436.3	1248.3	1188.1	1229.1	1294.1	1330.3	1318.2
8136.0	35°	7803.4	6063.4	2147.3	1474.9	1241.1	1132.7	1161.6	1231.5	1294.1	1306.2
9210.8	37.5°	8738.4	6690.0	2164.1	1491.8	1219.4	1086.9	1101.3	1161.6	1243.5	1282.1
10420.6	40°	9801.2	7420.2	2260.5	1474.9	1195.3	1048.3	1050.7	1096.5	1168.8	1226.7
11722.0	42.5°	10897.8	8273.3	2438.9	1412.2	1173.6	1014.6	1007.4	1038.7	1086.9	1127.9
13020.9	45°	11941.3	9150.5	2614.8	1325.5	1147.1	980.8	964.0	976.0	985.7	1002.5
14286.1	47.5°	12852.2	9767.5	2564.2	1245.9	1111.0	942.3	913.4	908.5	879.6	877.2
15416.4	50°	13481.2	9902.4	2277.4	1166.4	1058.0	898.9	853.1	824.2	773.6	749.5
16262.3	52.5°	13681.2	9369.9	1860.5	1086.9	971.2	841.1	776.0	730.2	667.6	645.9
16749.1	55°	13416.1	8326.3	1486.9	990.5	850.7	764.0	691.7	631.4	580.8	554.3
16802.1	57.5°	12767.9	6998.5	1176.1	877.2	723.0	677.2	604.9	544.6	501.3	474.8
16214.1	60°	11693.0	5557.3	930.2	742.3	616.9	583.2	508.5	469.9	431.4	400.1
14695.8	62.5°	10061.5	3966.8	730.2	588.0	515.7	477.2	433.8	404.9	359.1	315.7
11965.4	65°	7851.6	2426.8	563.9	431.4	414.5	395.2	368.7	342.2	286.8	243.4
7805.8	67.5°	4952.4	1149.5	402.5	325.3	327.8	318.1	306.1	284.4	243.4	204.8
3496.8	70°	2181.0	556.7	265.1	248.2	243.4	243.4	253.0	245.8	207.3	171.1
1214.6	72.5°	742.3	298.8	197.6	188.0	175.9	173.5	212.1	204.8	166.3	132.5
604.9	75°	388.0	200.0	144.6	135.0	106.0	127.7	168.7	159.1	118.1	86.8
400.1	77.5°	253.0	142.2	98.8	86.8	60.2	84.3	125.3	110.9	69.9	43.4
262.7	80°	159.1	94.0	57.8	41.0	28.9	45.8	67.5	48.2	26.5	9.6
154.2	82.5°	84.3	48.2	21.7	14.5	12.0	14.5	16.9	12.0	4.8	0.0
79.5	85°	33.7	16.9	7.2	4.8	2.4	0.0	4.8	2.4	0.0	0.0
14.5	87.5°	12.0	2.4	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>
4766.9
4453.6
3728.2
2778.7
1874.9
1518.3
1479.7
1458.0
1424.3
1390.5
1368.8
1352.0
1335.1
1318.2
1306.2
1291.7
1245.9
1144.7
1012.2
874.8
751.9
643.5
554.3
469.9
392.8
308.5
236.2
200.0
163.9
125.3
79.5
38.6
7.2
0.0
0.0
0.0
0.0

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