

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: P953119

Luminaire Tested: **GALN-SB6D-735-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953119
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6D-735-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47160 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

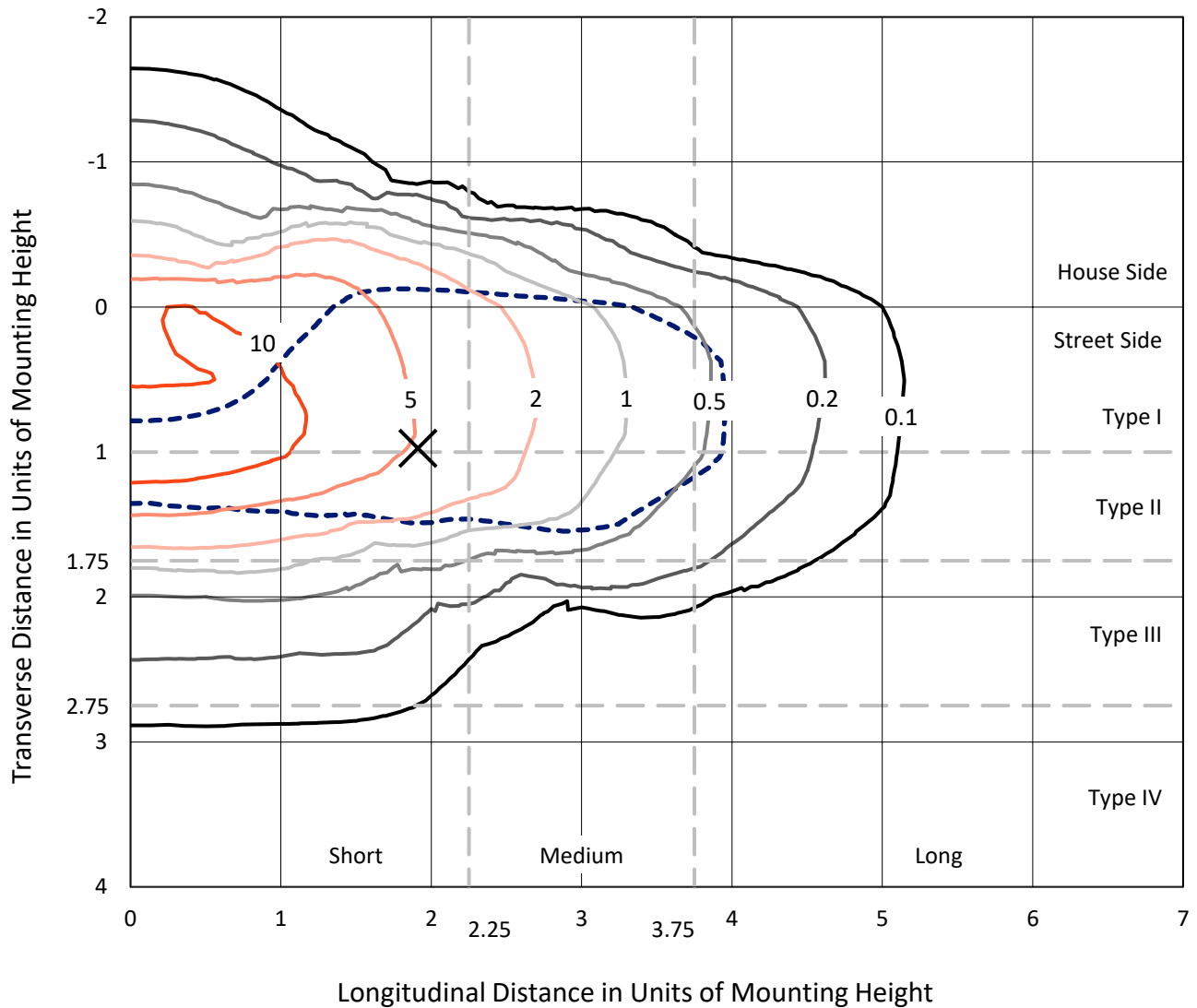
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

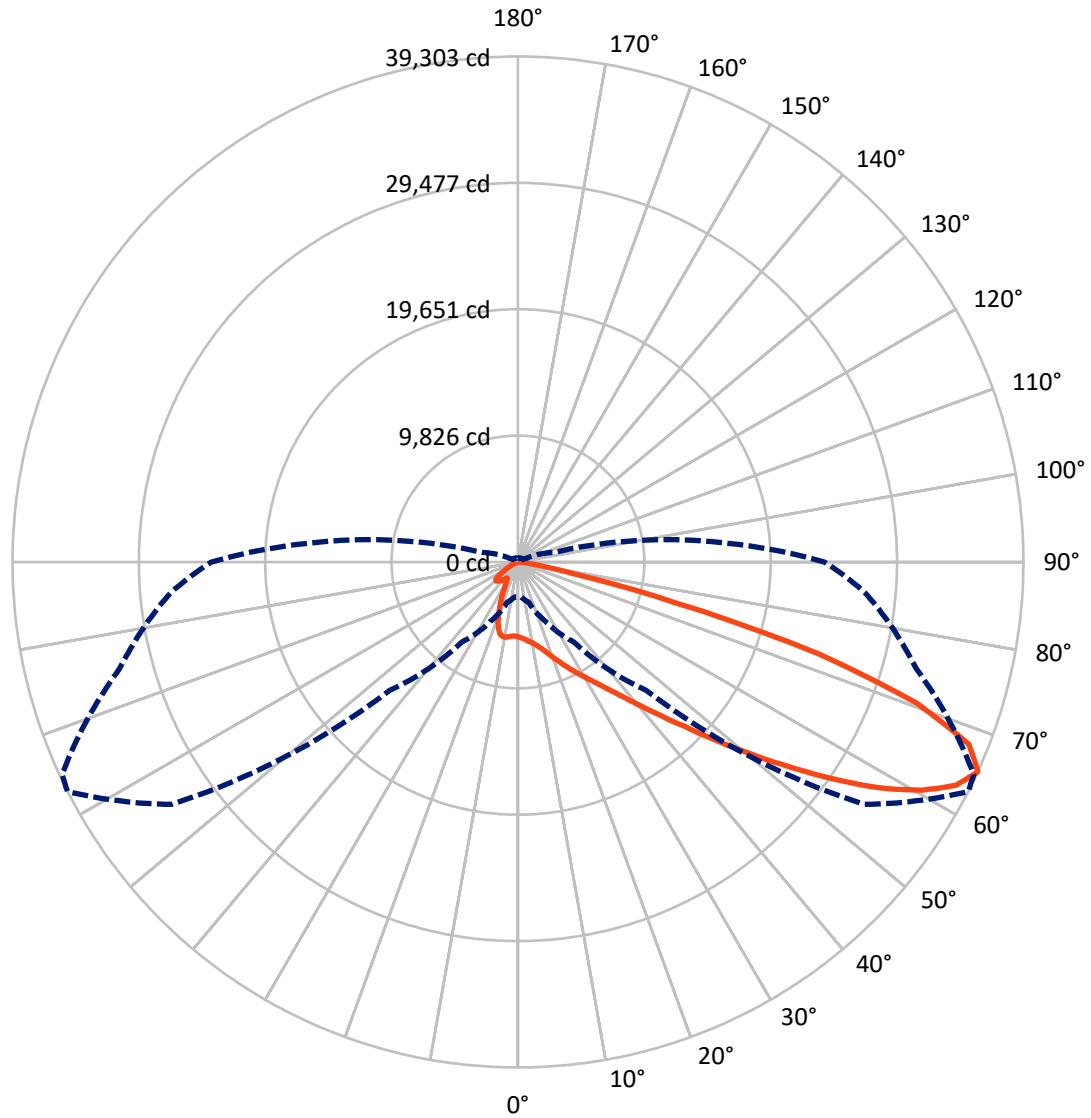
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6932.2	0.0	6932.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	40227.8	0.0	40227.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	47160.0	0.0	47160.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	548.4	1.2
10°-20°	1521.6	3.2
20°-30°	2649.5	5.6
30°-40°	4775.4	10.1
40°-50°	9471.2	20.1
50°-60°	12901.3	27.4
60°-70°	10297.7	21.8
70°-80°	4660.0	9.9
80°-90°	335.0	0.7
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°	47160.0	100.0
0°-180°	47160.0	100.0

Coefficient of Utilization



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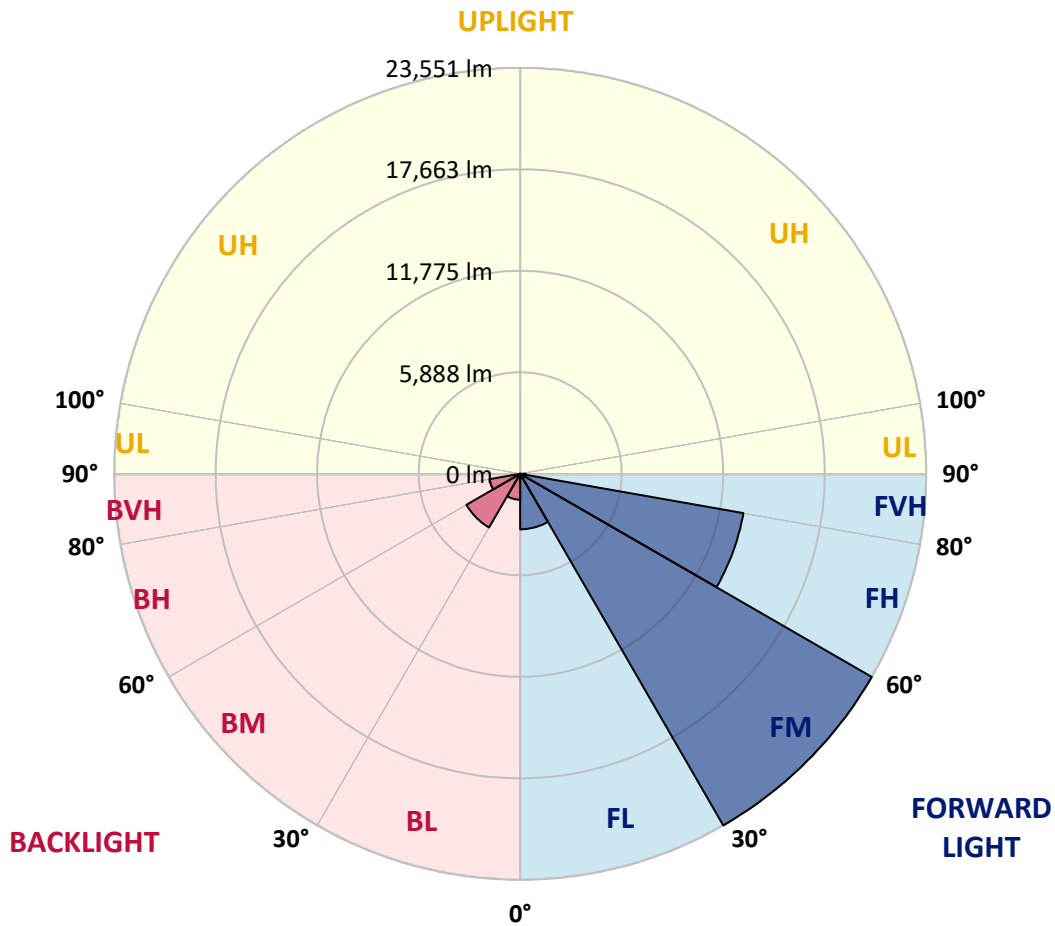
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3219.2	6.8			
FM (30°-60°)	23550.5	49.9			
FH (60°-80°)	13148.0	27.9			G5
FVH (80°-90°)	310.1	0.7			G3/500
BL (0°-30°)	1500.2	3.2	B3/2500		
BM (30°-60°)	3597.4	7.6	B3/5000		
BH (60°-80°)	1809.7	3.8	B3/2500		G3/2500
BVH (80°-90°)	24.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	5820.4	5820.4	5820.4	5820.4	5820.4	5820.4	5820.4	5820.4	5820.4	5820.4
2.5°	5956.7	5940.5	5963.2	5953.5	5947.0	5934.0	5927.5	5921.0	5908.0	5898.3
5°	5972.9	5963.2	5985.9	6005.4	6024.8	6044.3	6054.0	6067.0	6054.0	6028.1
7.5°	5836.7	5830.2	5878.8	5937.2	6024.8	6099.5	6180.6	6226.0	6229.2	6219.5
10°	5826.9	5810.7	5859.4	5930.7	6044.3	6177.3	6320.1	6417.4	6430.4	6472.6
12.5°	5979.4	5963.2	6031.3	6109.2	6226.0	6365.5	6540.7	6677.0	6696.4	6754.8
15°	6235.7	6213.0	6290.9	6391.4	6540.7	6699.7	6884.6	7007.9	7024.1	7095.5
17.5°	6534.2	6511.5	6602.3	6709.4	6871.6	7089.0	7303.1	7439.4	7458.9	7504.3
20°	6917.0	6887.8	6959.2	7056.5	7228.5	7488.1	7744.4	7939.0	7935.8	7935.8
22.5°	7361.5	7316.1	7377.7	7455.6	7617.8	7932.5	8273.2	8503.5	8503.5	8412.7
25°	7838.4	7793.0	7861.2	7932.5	8075.3	8432.2	8831.2	9116.7	9129.7	8974.0
27.5°	8435.4	8377.0	8428.9	8513.3	8597.6	8961.0	9434.7	9765.6	9772.1	9532.0
30°	9583.9	9418.5	9256.2	9165.4	9204.3	9564.5	10070.6	10437.2	10469.6	10138.7
32.5°	11686.3	11653.8	11082.8	10336.6	9947.3	10213.3	10781.1	11222.3	11241.8	10816.8
35°	14953.4	14914.5	13996.3	12575.3	11306.7	11082.8	11644.1	12166.5	12153.5	11673.3
37.5°	18853.1	18817.5	17607.3	15706.1	13652.4	12396.8	12756.9	13305.2	13386.4	12756.9
40°	22185.1	22052.1	21286.4	19453.4	16767.0	14577.0	14340.2	14703.6	14787.9	14041.7
42.5°	24709.3	24595.7	24206.4	23061.1	20537.0	17802.0	16205.7	16345.2	16439.3	15543.9
45°	26016.8	25990.8	26146.5	26039.5	24378.3	21760.1	18872.6	18291.9	18327.6	17208.2
47.5°	26201.7	26188.7	26899.2	27905.0	27681.1	26224.4	22295.4	20718.7	20592.1	19086.7
50°	25111.6	25085.6	26448.3	28333.3	29887.3	29974.9	26182.2	23453.7	23174.7	21030.1
52.5°	21630.3	21623.9	23862.5	26999.8	30662.7	33258.2	30023.6	26458.0	25990.8	23087.1
55°	16643.7	16763.8	19330.1	23038.4	29248.2	34838.3	33472.4	29793.2	29076.2	25157.0
57.5°	11790.1	11965.3	14502.4	17805.2	24861.8	33903.9	35805.1	33135.0	32362.8	27220.4
60°	6333.0	6488.8	9029.1	12971.1	18496.3	30419.4	37034.7	36035.4	35305.4	29180.0
62.5°	3773.2	3825.1	4876.3	8373.8	12510.4	23239.6	36512.4	38244.9	37644.7	30824.9
65°	2709.1	2718.8	3247.6	5113.2	7595.1	14119.6	32849.4	39302.5	39117.6	32064.3
67.5°	2280.8	2274.3	2494.9	3396.9	5174.8	7072.8	25176.5	37806.9	38592.0	32849.4
70°	1956.4	1966.1	2225.7	2488.4	3890.0	4003.6	12516.9	32917.6	34591.7	33057.1
72.5°	1456.7	1489.2	1729.3	2267.8	2936.2	2754.5	4321.5	24407.5	27434.6	31146.1
75°	1028.5	1044.7	1216.6	1907.7	2190.0	2005.0	2206.2	12617.4	16497.7	23878.7
77.5°	791.6	820.8	921.4	1333.4	2157.5	1408.1	1349.7	4366.9	6709.4	14424.6
80°	428.3	480.2	665.1	963.6	1515.1	996.0	668.3	1739.0	2274.3	6745.1
82.5°	220.6	246.6	463.9	694.3	863.0	869.5	330.9	723.5	937.6	2082.9
85°	87.6	107.1	311.5	382.8	444.5	428.3	149.2	292.0	337.4	577.5
87.5°	19.5	32.4	113.6	87.6	84.4	90.8	35.7	68.1	64.9	68.1
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°
5820.4	0°	5820.4	5820.4	5820.4	5820.4	5820.4	5820.4	5820.4	5820.4	5820.4	5820.4
5859.4	2.5°	5856.1	5843.1	5807.5	5768.5	5723.1	5697.1	5680.9	5677.7	5655.0	5638.7
5989.1	5°	5953.5	5940.5	5872.3	5791.2	5703.6	5635.5	5570.6	5512.2	5427.9	5411.6
6177.3	7.5°	6148.1	6112.4	6002.1	5891.8	5726.3	5528.4	5288.4	5012.6	4766.0	4691.4
6427.1	10°	6388.2	6339.5	6200.0	6005.4	5638.7	5100.2	4519.4	3980.9	3552.6	3432.6
6722.4	12.5°	6660.7	6618.6	6433.6	6073.5	5272.1	4295.6	3406.6	2738.3	2323.0	2219.2
7037.1	15°	6985.2	6923.5	6667.2	5969.7	4616.8	3263.9	2339.2	1943.4	1794.1	1774.7
7397.2	17.5°	7329.1	7228.5	6874.9	5596.6	3734.3	2319.7	1807.1	1693.6	1628.7	1609.2
7760.6	20°	7643.8	7514.0	6998.1	5032.0	2790.2	1807.1	1619.0	1544.3	1485.9	1463.2
8124.0	22.5°	7958.5	7773.6	6998.1	4263.1	2092.6	1602.7	1485.9	1417.8	1349.7	1320.5
8513.3	25°	8286.2	8039.6	6874.9	3406.6	1683.8	1469.7	1359.4	1284.8	1226.4	1190.7
8883.1	27.5°	8604.1	8263.5	6592.6	2595.5	1498.9	1352.9	1242.6	1171.2	1116.1	1090.1
9285.4	30°	8905.8	8484.1	6196.8	1969.3	1378.9	1239.4	1135.5	1073.9	1018.7	992.8
9807.8	32.5°	9314.6	8763.1	5775.0	1615.7	1275.0	1132.3	1038.2	979.8	931.1	911.7
10485.9	35°	9882.4	9175.1	5411.6	1586.5	1187.4	1044.7	950.6	895.5	846.8	830.6
11361.9	37.5°	10687.0	9840.2	5220.2	1781.2	1116.1	966.8	879.2	820.8	775.4	762.4
12474.7	40°	11679.8	10742.2	5324.0	1975.8	1067.4	898.7	814.3	755.9	717.0	700.8
13753.0	42.5°	12857.5	11855.0	5898.3	2125.1	1035.0	840.3	752.7	687.8	661.9	655.4
15203.2	45°	14210.4	13078.1	6777.5	2284.1	983.1	785.1	691.1	642.4	622.9	619.7
16780.0	47.5°	15748.3	14421.3	7796.3	2482.0	931.1	733.2	642.4	609.9	593.7	587.2
18424.9	50°	17273.1	15774.2	8844.2	2592.3	889.0	684.6	603.5	577.5	564.5	561.3
20163.9	52.5°	18869.4	17166.1	9691.0	2488.4	853.3	645.6	571.0	551.5	538.6	535.3
21766.6	55°	20391.0	18291.9	9837.0	2112.1	781.9	606.7	535.3	525.6	509.4	509.4
23392.0	57.5°	21701.7	18856.4	8805.3	1550.8	710.5	548.3	499.6	489.9	476.9	473.7
24858.5	60°	22905.4	18694.2	6797.0	1044.7	632.7	489.9	454.2	447.7	434.7	418.5
26133.6	62.5°	23583.5	17980.4	4649.2	681.3	554.8	428.3	402.3	399.1	369.9	337.4
27077.7	65°	23839.8	16513.9	2900.5	496.4	463.9	366.6	347.1	340.7	298.5	262.8
27613.0	67.5°	23615.9	14100.1	1463.2	392.6	366.6	305.0	285.5	285.5	256.3	223.9
27580.6	70°	22720.5	10570.2	616.4	314.7	282.3	233.6	233.6	246.6	217.4	181.7
26149.8	72.5°	20777.1	7111.7	327.7	240.1	210.9	165.5	191.4	201.2	172.0	136.3
21403.2	75°	16517.2	4337.7	227.1	178.4	133.0	116.8	146.0	152.5	116.8	90.8
14674.4	77.5°	11297.0	2491.7	152.5	113.6	84.4	68.1	100.6	94.1	61.6	42.2
5658.2	80°	4960.7	1038.2	87.6	51.9	32.4	26.0	35.7	26.0	19.5	13.0
775.4	82.5°	580.7	243.3	32.4	19.5	13.0	6.5	3.2	0.0	0.0	0.0
236.8	85°	120.0	29.2	16.2	6.5	3.2	0.0	0.0	0.0	0.0	0.0
42.2	87.5°	22.7	6.5	3.2	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>
5820.4
5655.0
5405.2
4655.7
3387.1
2190.0
1755.2
1599.5
1450.2
1304.2
1177.7
1090.1
996.0
911.7
830.6
759.2
697.5
655.4
616.4
587.2
561.3
535.3
506.1
470.4
415.3
330.9
259.6
220.6
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136.3
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