

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: P943114

Luminaire Tested: **GALN-SB7B-940-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943114  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7B-940-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

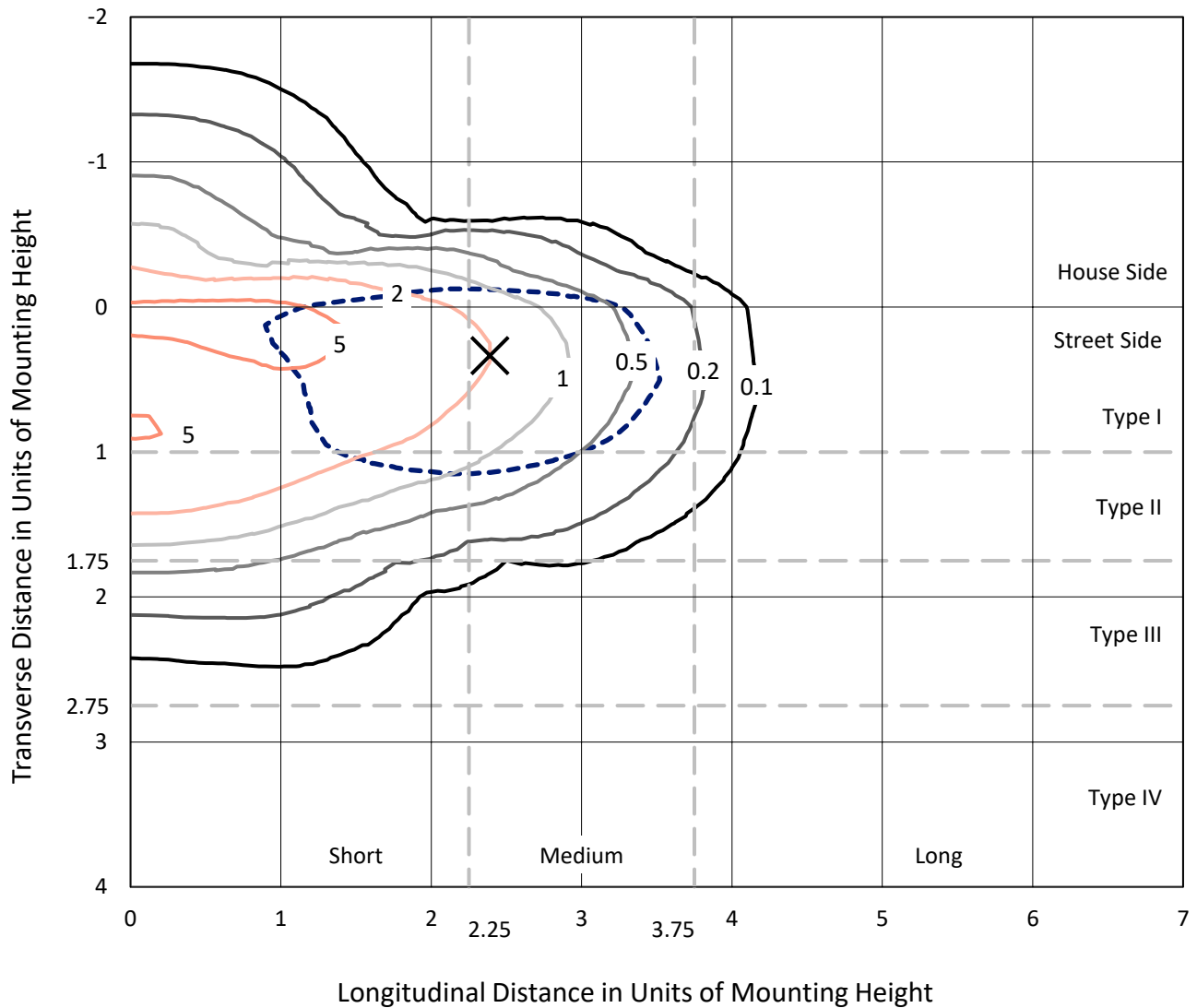
Lumens per Lamp: N/A  
Luminaire Lumens: 21190 lumens  
Efficiency: N/A  
Efficacy: 82.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): 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

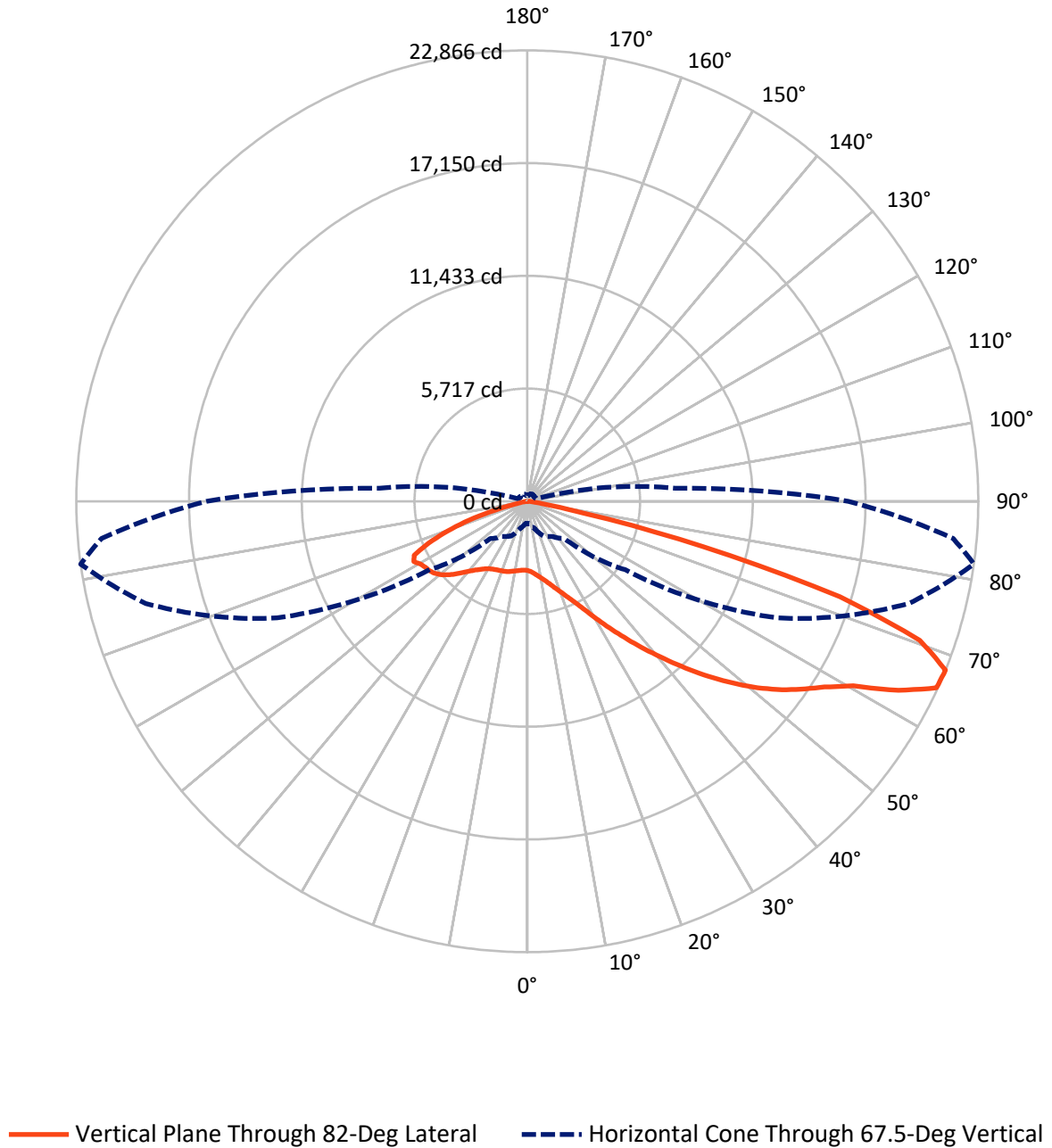
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3838.4	0.0	3838.4
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	17351.6	0.0	17351.6
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	21190.0	0.0	21190.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	312.8	1.5
10°-20°	812.7	3.8
20°-30°	1301.7	6.1
30°-40°	2301.9	10.9
40°-50°	4033.1	19.0
50°-60°	5379.0	25.4
60°-70°	5007.6	23.6
70°-80°	1921.9	9.1
80°-90°	119.4	0.6
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°	21190.0	100.0
0°-180°	21190.0	100.0

**Coefficient of Utilization**



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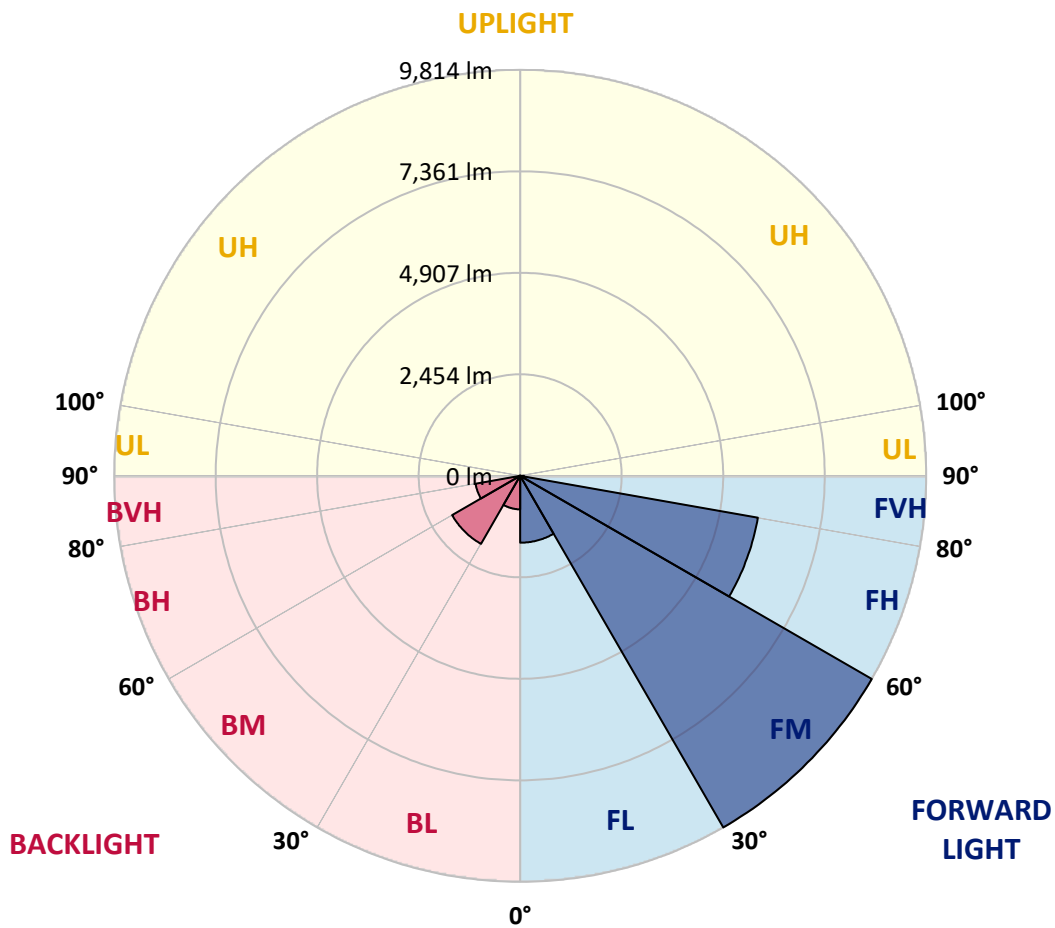
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1616.6	7.6			
FM (30°-60°)	9814.3	46.3			
FH (60°-80°)	5833.9	27.5			G3/7500
FVH (80°-90°)	86.8	0.4			G1/100
BL (0°-30°)	810.7	3.8	B2/1000		
BM (30°-60°)	1899.6	9.0	B2/2500		
BH (60°-80°)	1095.5	5.2	B3/2500		G3/2500
BVH (80°-90°)	32.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3510.5	3510.5	3510.5	3510.5	3510.5	3510.5	3510.5	3510.5	3510.5	3510.5
2.5°	3710.3	3731.7	3719.5	3713.4	3702.7	3687.4	3675.2	3637.1	3597.4	3571.5
5°	3785.1	3806.4	3804.9	3811.0	3818.6	3823.2	3820.2	3777.5	3721.0	3676.8
7.5°	3721.0	3745.4	3765.2	3795.8	3849.2	3905.6	3933.1	3923.9	3865.9	3804.9
10°	3539.5	3565.4	3612.7	3684.4	3797.3	3919.3	4021.6	4068.8	4032.2	3965.1
12.5°	3206.9	3232.8	3325.9	3481.5	3670.7	3882.7	4078.0	4204.6	4213.8	4146.7
15°	2833.1	2859.0	2958.2	3153.5	3441.8	3782.0	4108.5	4348.0	4428.9	4370.9
17.5°	2601.2	2624.1	2698.8	2856.0	3156.5	3580.6	4097.8	4500.6	4685.2	4639.4
20°	2531.0	2550.8	2585.9	2695.8	2946.0	3371.6	4027.7	4644.0	4961.3	4935.4
22.5°	2605.8	2624.1	2634.8	2683.6	2840.7	3234.3	3939.2	4790.5	5281.7	5284.8
25°	2778.2	2796.5	2784.3	2814.8	2883.4	3191.6	3905.6	4962.9	5684.5	5718.0
27.5°	3061.9	3063.5	3034.5	3032.9	3043.6	3255.7	3940.7	5147.5	6192.5	6255.1
30°	3631.0	3608.1	3496.7	3376.2	3321.3	3447.9	4038.3	5365.6	6792.1	6903.5
32.5°	4508.2	4474.7	4270.2	3981.9	3692.0	3757.6	4213.8	5614.3	7445.1	7646.4
35°	5460.2	5451.1	5237.5	4808.8	4302.3	4198.5	4499.1	5940.8	8157.5	8477.9
37.5°	6345.1	6340.5	6218.5	5713.5	5097.1	4813.4	4956.8	6368.0	8920.3	9384.1
40°	7153.7	7167.4	7045.3	6593.8	5972.8	5602.1	5579.2	6895.8	9768.6	10371.2
42.5°	7852.4	7867.7	7744.1	7410.0	6837.9	6474.8	6343.6	7542.7	10597.0	11431.5
45°	8326.9	8421.5	8403.1	8136.2	7725.8	7348.9	7262.0	8354.3	11541.4	12555.9
47.5°	8461.1	8548.1	8685.4	8722.0	8471.8	8101.1	8204.8	9332.3	12496.4	13681.8
50°	8130.1	8210.9	8496.2	8876.1	9050.0	8935.6	9121.7	10380.4	13474.3	14804.7
52.5°	7477.1	7559.5	7919.5	8520.6	9230.0	9590.1	10041.7	11413.2	14421.7	15868.0
55°	6532.7	6619.7	7082.0	7762.4	8886.8	9860.1	10809.1	12444.5	15289.8	16824.6
57.5°	5248.2	5312.2	5792.8	6744.8	8023.3	9591.6	11375.1	13570.4	16107.6	17764.4
60°	3420.5	3476.9	4035.3	5097.1	6592.2	8694.5	11488.0	14826.0	17193.8	18986.4
62.5°	2274.7	2312.8	2643.9	3423.5	4642.5	6972.1	10827.4	15828.4	18786.6	21113.1
65°	1560.7	1598.9	1929.9	2473.0	2999.4	4612.0	8928.0	15695.6	20229.8	22802.0
67.5°	1113.7	1145.7	1426.5	1939.1	2171.0	2679.0	6052.2	13999.1	20022.3	22866.1
70°	797.9	816.2	1048.1	1510.4	1725.5	1609.5	3365.5	10706.8	17531.0	21114.7
72.5°	558.4	564.5	727.7	1150.3	1389.8	1174.7	1601.9	7138.4	13259.2	16572.9
75°	378.4	386.0	489.7	843.7	1115.2	897.1	848.2	3827.8	7783.7	9173.6
77.5°	231.9	234.9	315.8	576.7	834.5	683.5	546.2	1621.7	3011.6	2956.7
80°	131.2	131.2	201.4	358.5	569.1	440.9	382.9	689.6	953.5	837.6
82.5°	73.2	74.8	146.5	222.7	376.8	260.9	210.5	318.9	411.9	364.6
85°	30.5	33.6	90.0	105.3	180.0	129.7	85.4	134.3	152.6	135.8
87.5°	3.1	4.6	27.5	19.8	21.4	25.9	12.2	25.9	21.4	21.4
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°
3510.5	0°	3510.5	3510.5	3510.5	3510.5	3510.5	3510.5	3510.5	3510.5	3510.5	3510.5
3562.3	2.5°	3533.4	3510.5	3452.5	3385.4	3296.9	3254.2	3196.2	3156.5	3123.0	3126.0
3650.8	5°	3602.0	3544.0	3414.4	3252.6	3051.3	2907.8	2755.3	2650.0	2564.6	2546.3
3772.9	7.5°	3696.6	3605.1	3377.7	3086.3	2746.1	2488.3	2257.9	2109.9	2004.7	1971.1
3920.9	10°	3818.6	3685.9	3330.4	2877.3	2387.6	2059.6	1812.4	1696.5	1624.8	1600.4
4094.8	12.5°	3960.5	3779.0	3267.9	2622.6	2018.4	1702.6	1545.5	1487.5	1464.6	1457.0
4308.4	15°	4139.0	3894.9	3173.3	2320.5	1705.7	1484.4	1417.3	1409.7	1412.7	1409.7
4564.7	17.5°	4351.1	4021.6	3019.2	2009.2	1495.1	1373.1	1348.7	1354.8	1362.4	1360.9
4851.5	20°	4583.0	4146.7	2822.4	1733.1	1351.7	1293.7	1280.0	1286.1	1292.2	1289.2
5182.6	22.5°	4846.9	4280.9	2604.2	1518.0	1255.6	1220.5	1205.2	1206.8	1206.8	1200.7
5602.1	25°	5162.7	4428.9	2375.4	1365.4	1182.4	1154.9	1136.6	1130.5	1121.3	1103.0
6111.7	27.5°	5539.5	4586.0	2155.7	1258.6	1124.4	1098.5	1077.1	1061.8	1039.0	1008.4
6723.4	30°	5963.7	4776.7	1969.6	1191.5	1078.6	1052.7	1028.3	1005.4	971.8	933.7
7426.7	32.5°	6462.6	4981.2	1833.8	1147.3	1037.4	1010.0	981.0	953.5	916.9	878.8
8217.0	35°	7057.5	5228.3	1754.5	1116.8	1005.4	968.8	936.7	906.2	878.8	845.2
9076.0	37.5°	7702.9	5490.7	1730.1	1101.5	984.0	927.6	891.0	869.6	866.6	846.7
10005.1	40°	8409.3	5802.0	1748.4	1092.3	961.1	887.9	848.2	843.7	851.3	816.2
10998.2	42.5°	9156.8	6171.2	1778.9	1081.7	929.1	848.2	810.1	810.1	804.0	755.2
12047.9	45°	9965.4	6596.8	1809.4	1055.7	891.0	808.6	779.6	768.9	743.0	695.7
13103.6	47.5°	10780.1	7030.1	1832.3	1008.4	845.2	775.0	749.1	724.7	686.5	643.8
14139.5	50°	11553.6	7419.1	1807.9	938.3	793.3	743.0	715.5	682.0	640.8	611.8
15120.5	52.5°	12244.7	7756.3	1704.1	855.9	738.4	709.4	685.0	649.9	616.4	585.8
16005.3	55°	12845.8	8029.4	1521.0	778.1	689.6	680.4	656.0	611.8	566.0	540.1
16882.6	57.5°	13422.5	8236.9	1292.2	714.0	645.3	648.4	611.8	572.1	529.4	501.9
18064.9	60°	14189.8	8514.5	1060.3	654.5	598.0	607.2	567.5	538.5	485.1	450.1
20092.5	62.5°	15416.5	8946.3	842.1	581.3	543.1	546.2	529.4	494.3	430.2	389.0
21595.2	65°	16389.8	8787.6	663.6	501.9	480.6	485.1	485.1	447.0	378.4	331.1
21676.1	67.5°	16280.0	7524.4	529.4	424.1	421.1	424.1	434.8	402.8	335.6	297.5
20025.4	70°	14996.9	5985.0	424.1	352.4	366.2	358.5	389.0	367.7	302.1	263.9
15524.8	72.5°	12237.0	4311.4	323.4	291.4	280.7	292.9	350.9	331.1	251.7	209.0
8223.1	75°	7150.6	2300.6	241.0	230.4	202.9	244.1	311.2	282.2	192.2	154.1
2520.3	77.5°	2328.1	802.5	177.0	169.3	151.0	196.8	265.5	238.0	157.1	122.1
738.4	80°	624.0	242.6	120.5	111.4	97.6	146.5	210.5	189.2	112.9	79.3
317.3	82.5°	250.2	102.2	70.2	62.6	53.4	100.7	166.3	152.6	83.9	50.3
99.2	85°	80.9	33.6	25.9	19.8	24.4	62.6	99.2	103.7	59.5	25.9
15.3	87.5°	10.7	4.6	4.6	6.1	4.6	10.7	30.5	29.0	16.8	3.1
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>
3510.5
3095.5
2505.1
1937.5
1582.1
1452.4
1408.2
1357.8
1287.6
1197.6
1100.0
1005.4
930.6
880.3
842.1
845.2
817.7
755.2
694.2
642.3
607.2
582.8
537.0
498.9
445.5
386.0
326.5
291.4
259.4
204.4
149.5
117.5
77.8
50.3
19.8
0.0
0.0

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