

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: P942108

Luminaire Tested: **GALN-SB5D-950-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942108  
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-SB5D-950-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

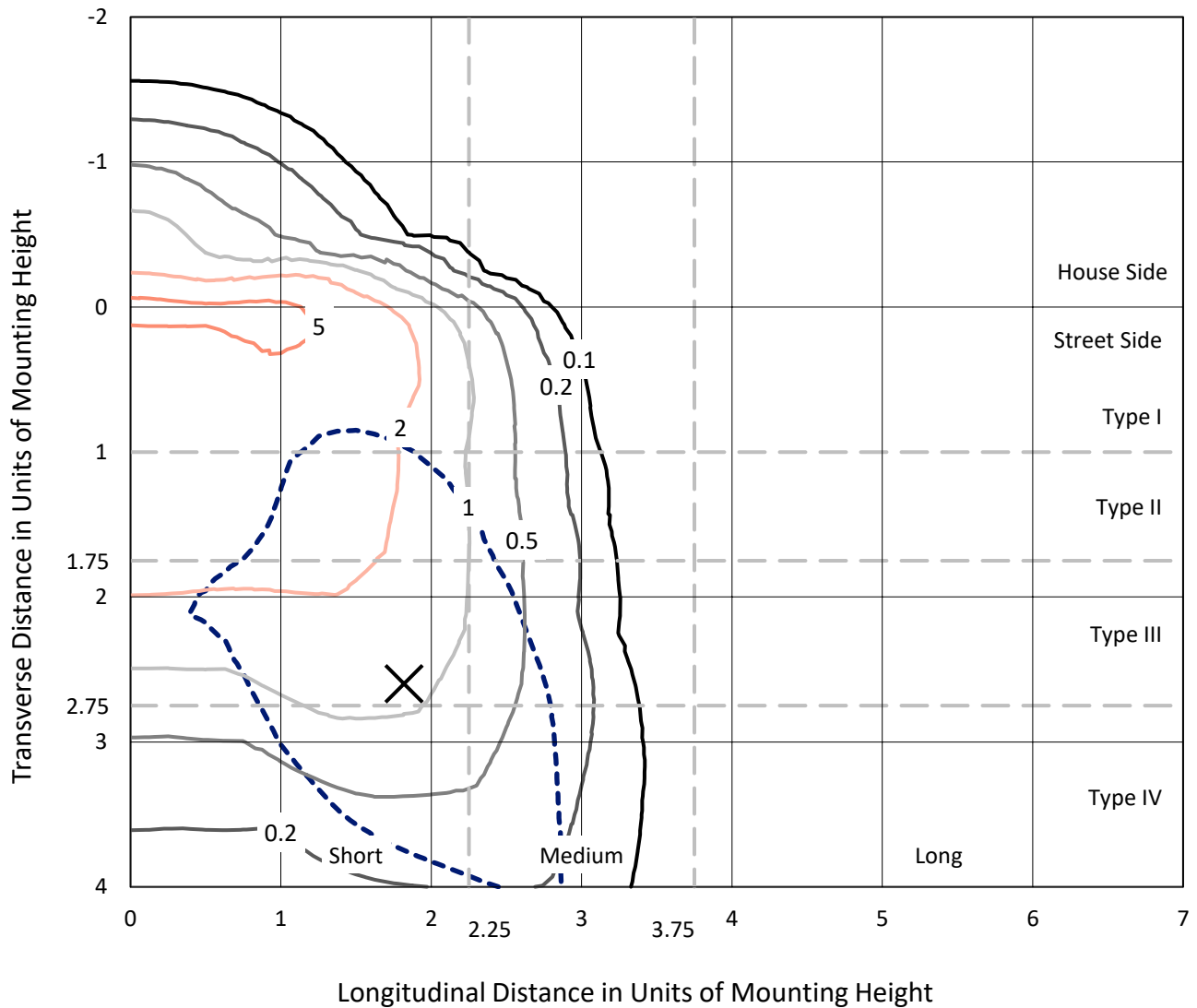
Lumens per Lamp: N/A  
Luminaire Lumens: 27075 lumens  
Efficiency: N/A  
Efficacy: 74.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

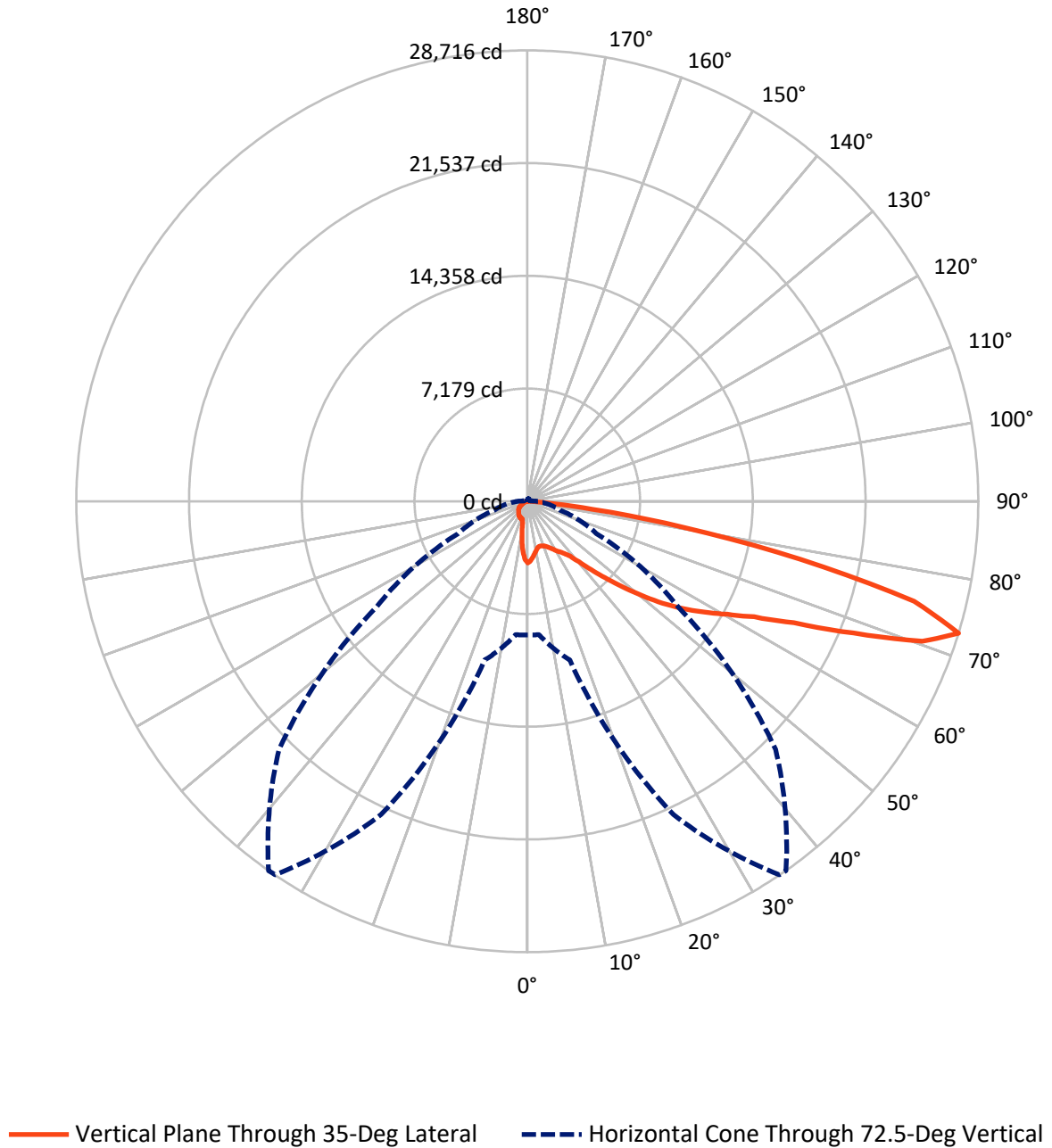
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3047.2	0.0	3047.2
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	24027.8	0.0	24027.8
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	27075.0	0.0	27075.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	322.5	1.2
10°-20°	754.3	2.8
20°-30°	1225.4	4.5
30°-40°	2044.6	7.6
40°-50°	3868.4	14.3
50°-60°	6146.9	22.7
60°-70°	7604.1	28.1
70°-80°	4726.8	17.5
80°-90°	382.0	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°	27075.0	100.0
0°-180°	27075.0	100.0

**Coefficient of Utilization**



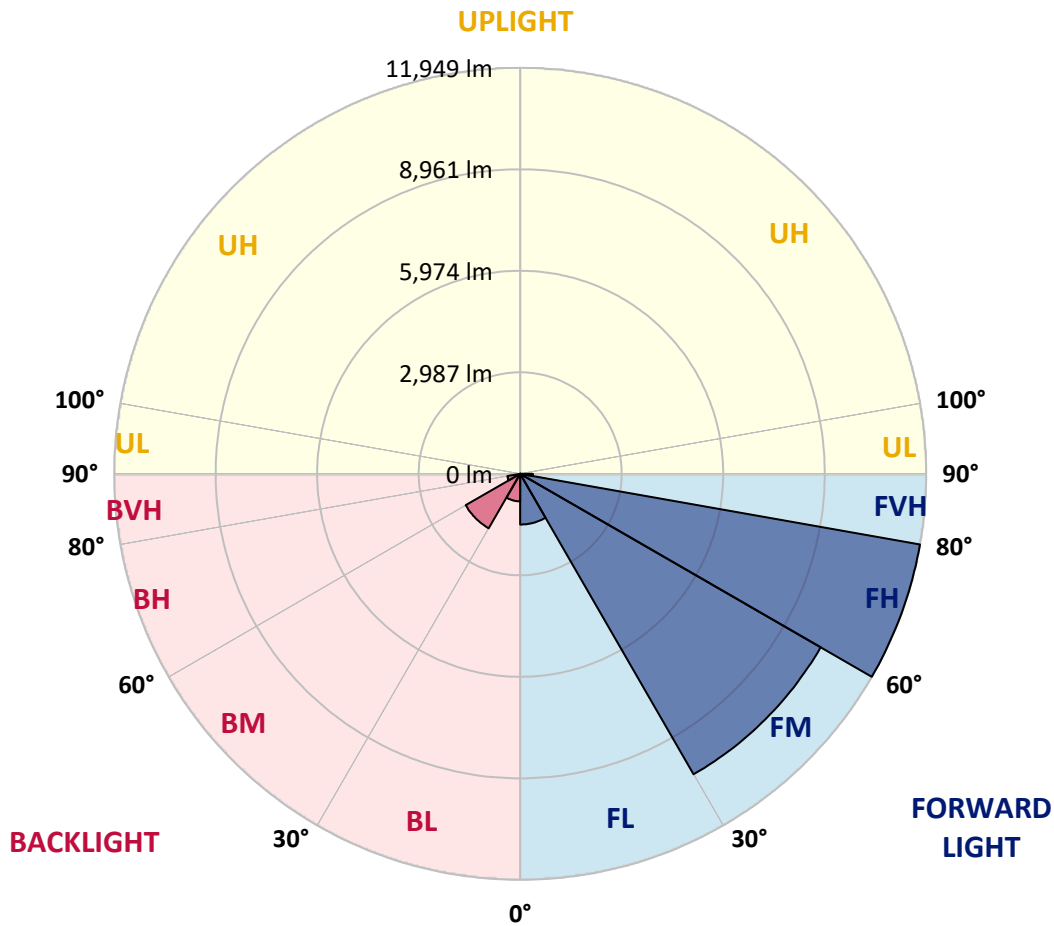
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1492.5	5.5			
FM (30°-60°)	10210.0	37.7			
FH (60°-80°)	11948.5	44.1			G4/12000
FVH (80°-90°)	376.8	1.4			G3/500
BL (0°-30°)	809.7	3.0	B2/1000		
BM (30°-60°)	1849.9	6.8	B2/2500		
BH (60°-80°)	382.4	1.4	B1/500		G1/500
BVH (80°-90°)	5.2	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°	34°	35°	45°	55°	65°	75°
0°	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1
2.5°	3749.5	3781.2	3787.2	3797.1	3797.1	3809.0	3828.8	3856.6	3902.3	3926.1
5°	3455.9	3479.7	3509.4	3533.3	3578.9	3584.8	3662.2	3737.6	3842.7	3922.1
7.5°	3160.3	3188.1	3227.7	3285.3	3344.8	3362.6	3479.7	3606.7	3773.3	3922.1
10°	2952.0	2954.0	2989.7	3047.2	3142.4	3164.3	3307.1	3487.6	3695.9	3898.3
12.5°	2834.9	2848.8	2864.7	2908.3	2999.6	3013.5	3166.2	3378.5	3618.6	3884.4
15°	2834.9	2844.9	2854.8	2876.6	2950.0	2961.9	3096.8	3309.1	3578.9	3890.3
17.5°	2864.7	2880.6	2872.6	2898.4	2975.8	2983.7	3102.8	3289.2	3576.9	3928.0
20°	2936.1	2948.0	2932.1	2948.0	3025.4	3041.3	3164.3	3326.9	3610.6	3993.5
22.5°	3049.2	3055.1	3017.5	3029.4	3108.7	3128.5	3271.4	3434.1	3692.0	4098.7
25°	3192.0	3203.9	3146.4	3160.3	3235.7	3259.5	3424.1	3594.8	3820.9	4243.5
27.5°	3356.7	3362.6	3313.0	3311.1	3408.3	3442.0	3608.6	3793.1	3993.5	4426.0
30°	3545.2	3563.0	3515.4	3507.5	3630.5	3658.2	3822.9	4037.2	4247.4	4699.8
32.5°	3693.9	3707.8	3680.1	3699.9	3824.9	3846.7	4082.8	4382.3	4646.2	5088.6
35°	3908.2	3916.1	3852.7	3888.4	4031.2	4086.8	4437.9	4866.4	5148.1	5576.6
37.5°	4683.9	4683.9	4414.1	4237.5	4374.4	4424.0	4923.9	5475.5	5767.1	6231.3
40°	5757.2	5739.3	5344.5	4983.5	4965.6	5062.8	5616.3	6243.2	6566.6	7016.9
42.5°	6901.8	6874.1	6336.4	5979.4	5919.8	5953.6	6415.8	7189.5	7518.8	7975.1
45°	7917.6	7909.7	7417.7	6937.6	6830.4	6937.6	7413.7	8296.5	8532.6	9012.7
47.5°	8768.7	8768.7	8409.6	8096.1	8040.6	8104.1	8764.7	9524.5	9502.7	10117.7
50°	9748.7	9740.8	9399.5	9264.6	9322.2	9411.4	10320.0	10818.0	10506.5	11202.9
52.5°	10435.1	10482.7	10365.7	10343.8	10637.5	10792.2	11899.2	12083.7	11405.2	12232.5
55°	10978.7	11034.2	11169.1	11321.9	11887.3	12089.6	13428.7	13283.9	12157.1	13125.2
57.5°	11748.4	11669.1	11877.4	12178.9	13093.5	13337.5	14910.7	14416.7	12762.2	13849.3
60°	12682.8	12694.7	12730.4	13111.3	14297.7	14611.1	16370.8	15488.0	13151.0	14293.7
62.5°	13805.7	13823.5	13896.9	14482.2	15914.5	16210.1	17926.2	16364.9	13329.6	14168.7
65°	13728.3	13803.7	14623.0	16624.7	18372.5	18664.2	19741.4	16979.9	13059.8	13026.0
67.5°	12506.3	12629.3	14000.1	19183.9	22078.4	22403.7	21935.5	17100.9	11895.2	10129.6
70°	10903.3	10946.9	12595.5	21485.2	26369.5	26698.8	23899.6	15769.7	9026.6	5650.0
72.5°	8514.7	8524.6	10458.9	22018.9	28698.5	28716.4	22358.1	11706.8	4854.5	2170.3
75°	6082.5	6023.0	7005.0	17856.7	25248.6	25450.9	16761.6	5491.3	1854.9	1025.7
77.5°	3261.5	3326.9	3963.8	10589.8	17442.1	17787.3	9145.6	1583.1	944.3	698.3
80°	1007.8	1063.3	1624.8	4848.6	9879.6	10087.9	3390.4	704.3	658.6	497.9
82.5°	317.4	329.3	757.8	2037.4	4100.6	4195.9	982.0	398.8	450.3	329.3
85°	91.3	93.2	337.3	759.8	1013.8	1033.6	275.8	154.7	257.9	204.3
87.5°	9.9	31.7	127.0	127.0	89.3	87.3	29.8	33.7	73.4	25.8
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°
3924.1	0°	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1	3924.1
3941.9	2.5°	3932.0	3934.0	3908.2	3864.6	3816.9	3777.3	3727.7	3688.0	3660.2	3652.3
3977.6	5°	3959.8	3945.9	3872.5	3739.6	3580.9	3444.0	3291.2	3170.2	3090.9	3057.1
4015.3	7.5°	4001.4	3961.8	3801.1	3539.2	3235.7	2965.9	2692.1	2479.8	2344.9	2277.5
4051.0	10°	4037.2	3957.8	3682.0	3249.6	2785.3	2376.7	2007.7	1751.7	1608.9	1541.5
4092.7	12.5°	4070.9	3955.8	3527.3	2906.4	2277.5	1777.5	1434.3	1307.4	1267.7	1253.8
4160.2	15°	4134.4	3961.8	3332.9	2513.6	1771.6	1343.1	1218.1	1216.1	1224.0	1220.1
4263.3	17.5°	4221.7	3967.7	3112.7	2096.9	1366.9	1184.4	1178.4	1196.3	1208.2	1202.2
4392.3	20°	4334.7	3991.5	2878.6	1684.3	1174.4	1144.7	1158.6	1174.4	1184.4	1174.4
4564.9	22.5°	4493.4	4033.2	2622.7	1353.0	1112.9	1120.9	1132.8	1150.6	1160.6	1146.7
4785.1	25°	4687.9	4098.7	2370.7	1176.4	1083.2	1093.1	1111.0	1130.8	1142.7	1128.8
5062.8	27.5°	4939.8	4203.8	2138.6	1136.8	1053.4	1059.4	1085.2	1114.9	1130.8	1112.9
5457.6	30°	5304.8	4376.4	1938.2	1154.6	1035.6	1021.7	1057.4	1099.1	1116.9	1101.0
5995.2	32.5°	5788.9	4620.4	1815.2	1182.4	1027.6	978.0	1011.8	1065.3	1095.1	1085.2
6697.5	35°	6423.7	4991.4	1767.6	1214.1	1021.7	932.4	956.2	1013.8	1065.3	1075.3
7582.3	37.5°	7193.5	5507.2	1781.5	1228.0	1003.8	894.7	906.6	956.2	1023.7	1055.4
8578.2	40°	8068.4	6108.3	1860.9	1214.1	984.0	863.0	865.0	902.7	962.2	1009.8
9649.5	42.5°	8971.0	6810.6	2007.7	1162.5	966.1	835.2	829.3	855.0	894.7	928.4
10718.8	45°	9830.0	7532.7	2152.5	1091.1	944.3	807.4	793.5	803.5	811.4	825.3
11760.3	47.5°	10579.9	8040.6	2110.8	1025.7	914.6	775.7	751.9	747.9	724.1	722.1
12690.8	50°	11097.7	8151.7	1874.7	960.2	870.9	740.0	702.3	678.5	636.8	617.0
13387.1	52.5°	11262.4	7713.2	1531.5	894.7	799.5	692.4	638.8	601.1	549.5	531.7
13787.8	55°	11044.1	6854.2	1224.0	815.4	700.3	628.9	569.4	519.8	478.1	456.3
13831.5	57.5°	10510.5	5761.1	968.1	722.1	595.2	557.5	497.9	448.4	412.6	390.8
13347.4	60°	9625.7	4574.8	765.8	611.0	507.9	480.1	418.6	386.9	355.1	329.3
12097.6	62.5°	8282.6	3265.4	601.1	484.1	424.5	392.8	357.1	333.3	295.6	259.9
9849.9	65°	6463.4	1997.7	464.2	355.1	341.2	325.4	303.5	281.7	236.1	200.4
6425.7	67.5°	4076.8	946.3	331.3	267.8	269.8	261.9	252.0	234.1	200.4	168.6
2878.6	70°	1795.4	458.3	218.2	204.3	200.4	200.4	208.3	202.4	170.6	140.9
999.9	72.5°	611.0	246.0	162.7	154.7	144.8	142.8	174.6	168.6	136.9	109.1
497.9	75°	319.4	164.7	119.0	111.1	87.3	105.1	138.9	130.9	97.2	71.4
329.3	77.5°	208.3	117.0	81.3	71.4	49.6	69.4	103.2	91.3	57.5	35.7
216.2	80°	130.9	77.4	47.6	33.7	23.8	37.7	55.5	39.7	21.8	7.9
127.0	82.5°	69.4	39.7	17.9	11.9	9.9	11.9	13.9	9.9	4.0	0.0
65.5	85°	27.8	13.9	6.0	4.0	2.0	0.0	4.0	2.0	0.0	0.0
11.9	87.5°	9.9	2.0	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>
3924.1
3666.2
3069.0
2287.4
1543.4
1249.8
1218.1
1200.2
1172.5
1144.7
1126.8
1112.9
1099.1
1085.2
1075.3
1063.3
1025.7
942.3
833.2
720.1
619.0
529.7
456.3
386.9
323.4
253.9
194.4
164.7
134.9
103.2
65.5
31.7
6.0
0.0
0.0
0.0
0.0

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