

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: P951611

Luminaire Tested: **GALN-SB5C-950-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951611
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-SB5C-950-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 615mA 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: 20272 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

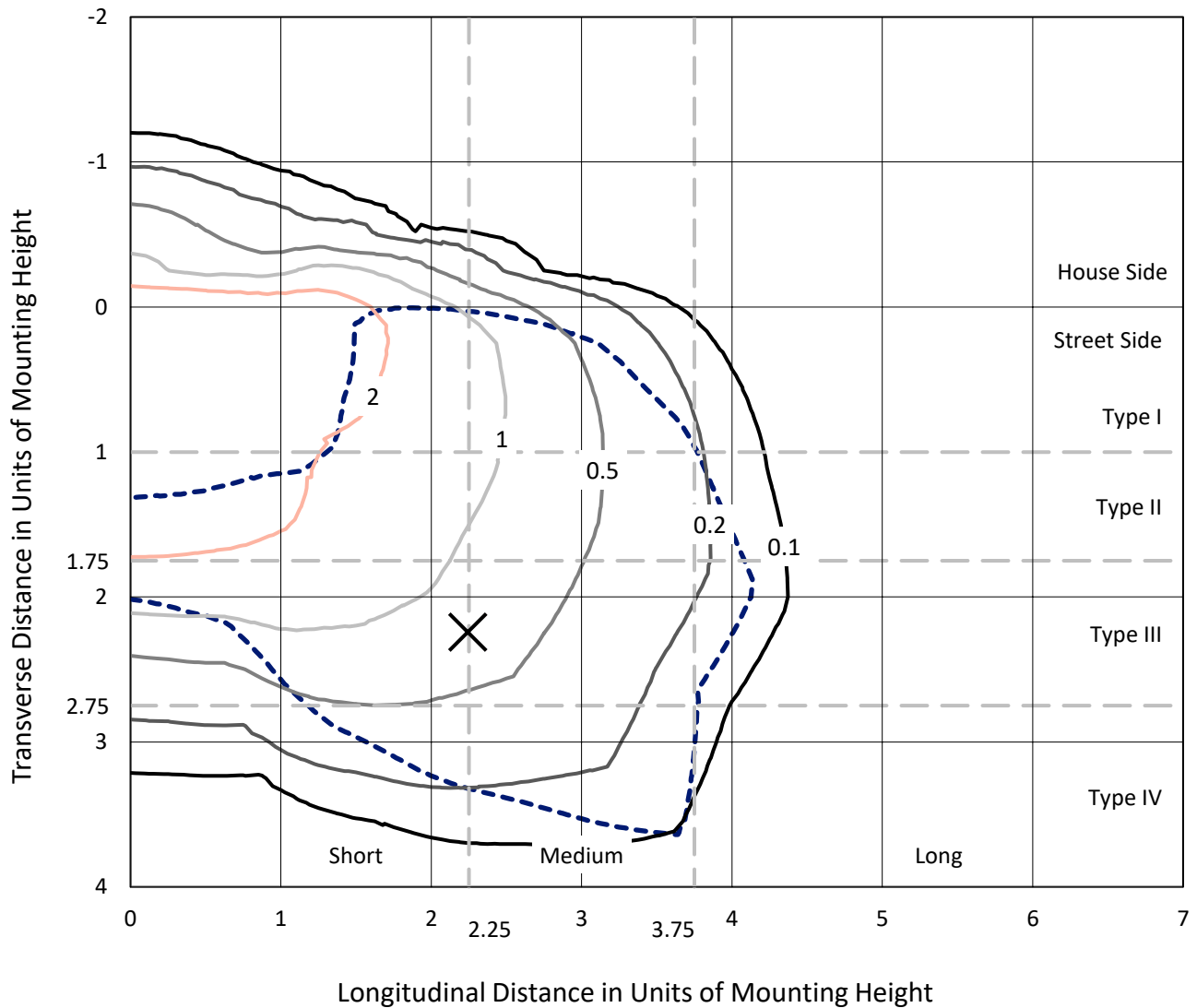
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

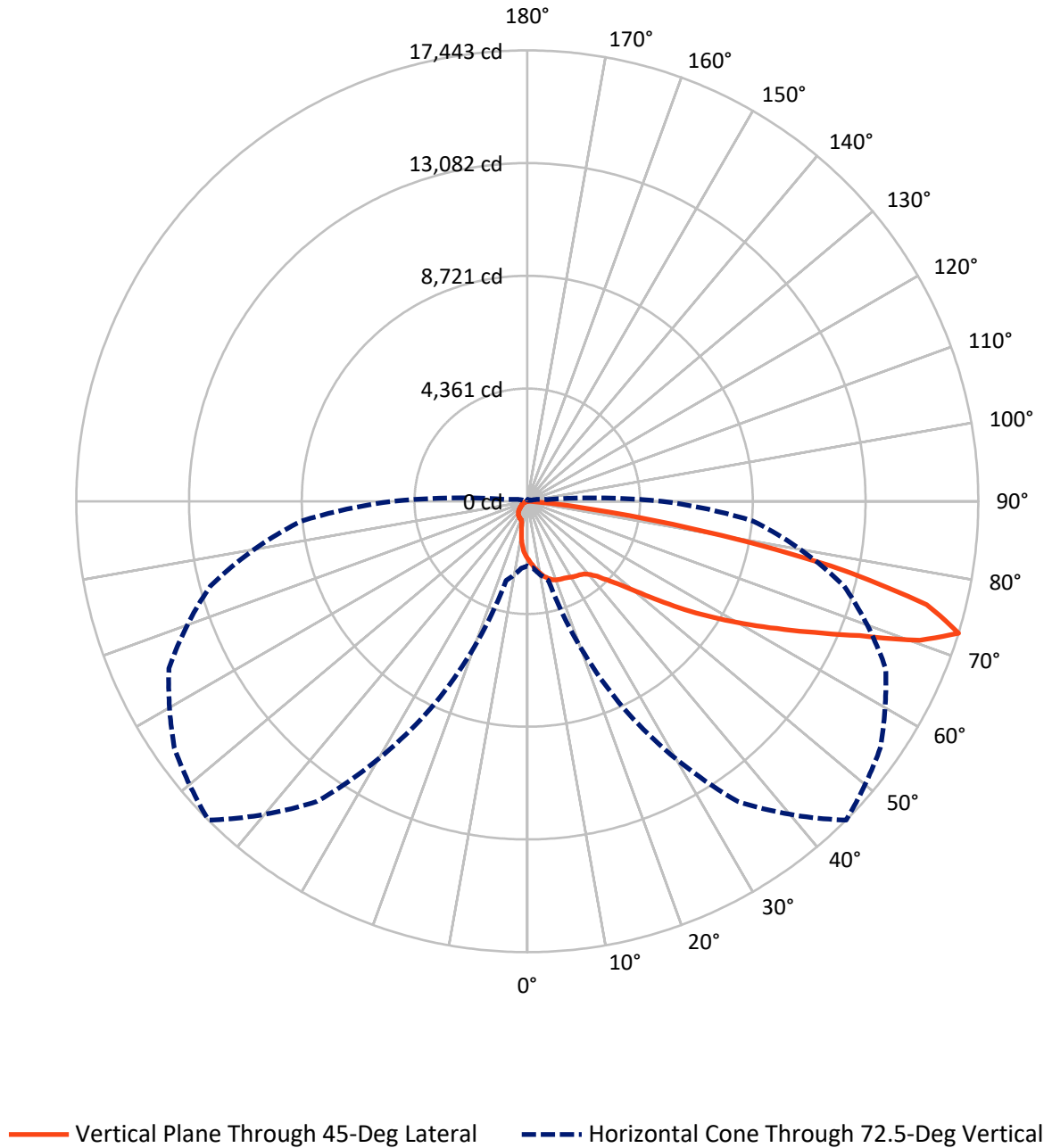
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	2130.0	0.0	2130.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	18142.0	0.0	18142.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	20272.0	0.0	20272.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.2	1.0
10°-20°	611.5	3.0
20°-30°	1004.2	5.0
30°-40°	1424.3	7.0
40°-50°	2354.2	11.6
50°-60°	4229.0	20.9
60°-70°	5872.2	29.0
70°-80°	4259.5	21.0
80°-90°	308.0	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°	20272.0	100.0
0°-180°	20272.0	100.0

Coefficient of Utilization



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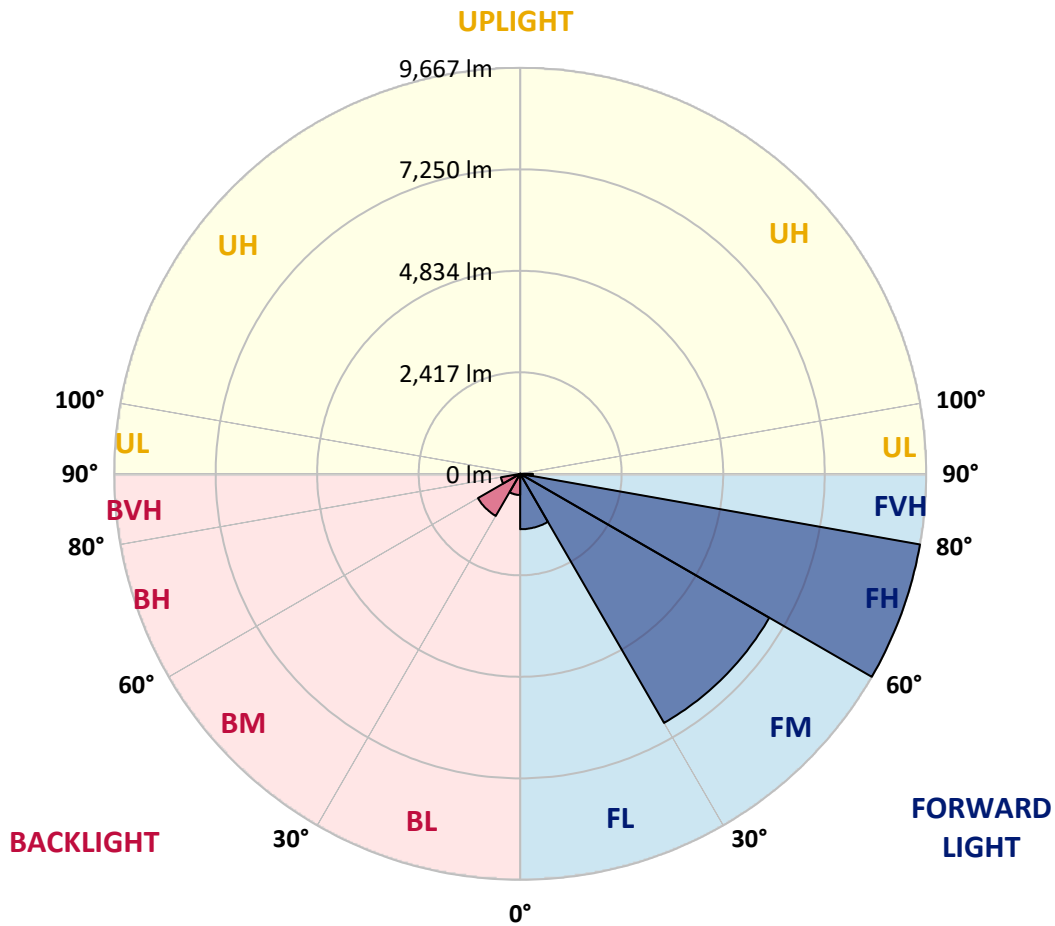
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1320.5	6.5			
FM (30°-60°)	6849.0	33.8			
FH (60°-80°)	9667.1	47.7			G4/12000
FVH (80°-90°)	305.4	1.5			G3/500
BL (0°-30°)	504.5	2.5	B2/1000		
BM (30°-60°)	1158.4	5.7	B2/2500		
BH (60°-80°)	464.5	2.3	B1/500		G1/500
BVH (80°-90°)	2.6	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°	2220.8	2220.8	2220.8	2220.8	2220.8	2220.8	2220.8	2220.8	2220.8	2220.8
2.5°	2425.6	2429.8	2427.0	2410.4	2382.7	2367.5	2359.2	2331.5	2313.5	2281.7
5°	2648.4	2665.0	2655.3	2622.1	2569.5	2532.2	2521.1	2464.4	2413.2	2353.7
7.5°	2885.0	2893.3	2875.3	2832.4	2761.9	2698.2	2688.5	2609.7	2528.0	2436.7
10°	3089.8	3099.5	3071.8	3009.6	2929.3	2850.4	2836.6	2749.4	2652.6	2540.5
12.5°	3261.4	3271.1	3235.1	3160.4	3071.8	2990.2	2976.3	2885.0	2778.5	2653.9
15°	3391.5	3409.4	3361.0	3280.8	3185.3	3103.6	3096.7	3006.8	2903.0	2764.6
17.5°	3467.6	3485.5	3439.9	3343.0	3261.4	3192.2	3183.9	3109.2	3012.3	2879.5
20°	3480.0	3496.6	3448.2	3363.8	3296.0	3240.6	3236.5	3182.5	3111.9	2984.6
22.5°	3442.6	3463.4	3419.1	3351.3	3304.3	3275.2	3269.7	3239.2	3199.1	3091.2
25°	3403.9	3420.5	3387.3	3327.8	3302.9	3300.1	3304.3	3298.7	3290.4	3199.1
27.5°	3401.1	3419.1	3381.8	3325.0	3311.2	3340.3	3344.4	3370.7	3377.6	3297.4
30°	3424.7	3437.1	3401.1	3341.6	3334.7	3401.1	3402.5	3449.6	3460.6	3380.4
32.5°	3475.9	3489.7	3453.7	3366.5	3356.9	3449.6	3453.7	3516.0	3534.0	3468.9
35°	3596.2	3612.8	3571.3	3435.7	3401.1	3495.2	3507.7	3581.0	3617.0	3563.0
37.5°	3896.5	3848.1	3791.3	3575.5	3502.1	3567.2	3587.9	3673.7	3737.4	3675.1
40°	4642.3	4490.1	4313.0	3813.5	3679.3	3720.8	3737.4	3823.2	3910.3	3849.5
42.5°	5761.7	5581.9	5296.8	4361.4	3946.3	3967.1	3979.5	4054.2	4177.4	4129.0
45°	6759.4	6694.3	6403.8	5296.8	4445.8	4343.4	4358.7	4397.4	4578.7	4560.7
47.5°	7526.0	7488.6	7264.4	6370.6	5289.9	4804.2	4847.1	4865.1	5126.6	5190.3
50°	8115.4	8101.6	7900.9	7325.3	6392.7	5483.6	5498.8	5460.1	5851.7	6009.4
52.5°	8671.7	8718.7	8570.6	8212.3	7570.2	6373.3	6370.6	6187.9	6716.5	6954.5
55°	9173.9	9190.5	9205.8	9117.2	8754.7	7386.2	7359.9	7061.0	7719.7	7966.0
57.5°	9645.8	9652.7	9788.3	9969.6	9987.6	8473.8	8425.4	8067.0	8815.6	8991.3
60°	9962.6	9994.5	10280.9	10784.6	11004.6	9596.0	9569.7	9204.4	9930.8	10012.5
62.5°	9506.0	9699.7	10422.0	11421.1	11964.9	10839.9	10827.5	10484.3	11104.2	11037.8
65°	7694.8	8022.7	9292.9	11851.4	12907.2	12229.2	12247.1	11881.8	12309.4	12093.6
67.5°	5382.6	5728.5	7231.2	11886.0	13960.2	13860.5	13964.3	13391.5	13589.3	13105.0
70°	3722.2	3900.7	4878.9	11141.6	14780.7	16107.7	16104.9	15245.6	14862.3	13565.8
72.5°	2503.1	2595.8	3168.7	8839.1	14177.4	17442.9	17362.7	16662.5	15291.3	12687.2
75°	1055.8	1123.6	1466.7	4967.5	11216.3	15958.2	15741.0	14725.4	13586.6	9990.3
77.5°	334.9	363.9	578.4	1778.1	6178.2	11995.3	11765.6	9196.1	9106.1	5011.8
80°	159.1	185.4	325.2	714.0	2431.2	6524.2	6492.3	4171.9	3917.3	1353.3
82.5°	69.2	81.6	179.9	381.9	1087.6	2327.4	2374.4	1419.7	1174.8	513.4
85°	22.1	29.1	83.0	175.7	459.4	578.4	571.5	337.6	473.2	279.5
87.5°	0.0	0.0	27.7	40.1	47.0	33.2	37.4	29.1	131.5	77.5
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°
2220.8	0°	2220.8	2220.8	2220.8	2220.8	2220.8	2220.8	2220.8	2220.8	2220.8	2220.8
2248.5	2.5°	2231.9	2209.8	2171.0	2135.1	2103.2	2071.4	2052.0	2024.4	2021.6	2021.6
2284.5	5°	2247.1	2211.2	2142.0	2068.6	1984.2	1904.0	1823.7	1746.2	1721.3	1703.3
2342.6	7.5°	2291.4	2234.7	2125.4	1985.6	1825.1	1649.4	1526.2	1393.4	1342.2	1314.5
2420.1	10°	2355.1	2277.6	2111.5	1866.6	1606.5	1367.1	1191.4	1047.5	992.1	968.6
2504.5	12.5°	2425.6	2330.2	2086.6	1718.6	1367.1	1080.7	909.1	842.7	834.4	834.4
2605.5	15°	2510.0	2393.8	2043.7	1544.2	1116.6	855.1	794.2	797.0	805.3	810.8
2703.8	17.5°	2597.2	2461.6	1975.9	1349.1	895.3	769.3	770.7	774.9	781.8	787.3
2810.3	20°	2691.3	2529.4	1886.0	1141.6	768.0	744.4	748.6	752.7	758.3	761.0
2909.9	22.5°	2792.3	2593.1	1779.4	938.1	725.1	723.7	725.1	729.2	736.1	736.1
3026.2	25°	2900.2	2663.6	1657.7	790.1	702.9	702.9	705.7	708.5	714.0	714.0
3138.2	27.5°	3010.9	2728.7	1529.0	712.6	683.5	682.2	682.2	686.3	689.1	690.5
3248.9	30°	3132.7	2804.8	1400.3	696.0	668.3	661.4	657.3	660.0	662.8	664.2
3365.2	32.5°	3257.2	2878.1	1285.5	702.9	653.1	640.7	626.8	624.0	624.0	629.6
3485.5	35°	3395.6	2958.4	1196.9	726.4	644.8	610.2	588.1	575.6	577.0	585.3
3629.4	37.5°	3561.6	3055.2	1131.9	747.2	639.3	575.6	539.6	524.4	514.7	524.4
3827.3	40°	3778.9	3197.7	1084.8	763.8	632.4	535.5	487.1	462.2	444.2	449.7
4134.5	42.5°	4098.5	3421.9	1066.8	765.2	617.1	488.4	433.1	399.9	373.6	375.0
4596.7	45°	4546.8	3776.1	1159.5	747.2	583.9	437.2	376.4	332.1	315.5	311.3
5287.1	47.5°	5161.2	4292.2	1374.0	709.8	535.5	387.4	321.0	283.7	271.2	264.3
6193.4	50°	5984.5	4955.0	1612.0	668.3	487.1	340.4	275.4	251.8	243.5	236.6
7268.6	52.5°	6939.3	5627.5	1807.1	626.8	438.6	298.9	246.3	232.5	225.5	220.0
8306.4	55°	7815.1	6091.1	1796.0	582.5	391.6	265.7	225.5	217.2	208.9	203.4
9200.2	57.5°	8360.3	6156.1	1480.6	534.1	337.6	239.4	206.2	200.6	191.0	184.0
9973.7	60°	8610.8	5785.3	1037.8	470.5	283.7	214.5	185.4	182.6	170.2	160.5
10705.7	62.5°	8656.4	5096.2	691.9	391.6	236.6	191.0	164.7	160.5	143.9	127.3
11300.7	65°	8471.0	4111.0	478.8	305.8	202.0	166.0	141.1	132.8	114.8	98.2
11441.8	67.5°	7884.3	2886.4	333.5	220.0	171.6	131.5	112.1	109.3	95.5	81.6
10722.3	70°	6809.2	1645.2	222.8	164.7	135.6	89.9	88.6	91.3	77.5	66.4
8760.2	72.5°	5220.7	752.7	138.4	120.4	92.7	60.9	70.6	72.0	59.5	49.8
5465.6	75°	3073.2	322.4	87.2	77.5	47.0	40.1	51.2	52.6	40.1	31.8
1998.1	77.5°	1046.1	121.8	55.3	45.7	23.5	22.1	33.2	33.2	22.1	12.5
401.3	80°	238.0	45.7	27.7	18.0	11.1	9.7	11.1	9.7	5.5	1.4
123.1	82.5°	67.8	18.0	11.1	6.9	4.2	4.2	1.4	0.0	0.0	0.0
42.9	85°	19.4	8.3	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0
15.2	87.5°	8.3	1.4	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>
2220.8
2028.5
1711.6
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762.4
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691.9
666.9
633.7
589.5
521.7
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