

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: P949910

Luminaire Tested: **GALN-SB4C-735-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949910
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-SB4C-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 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: 23120 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

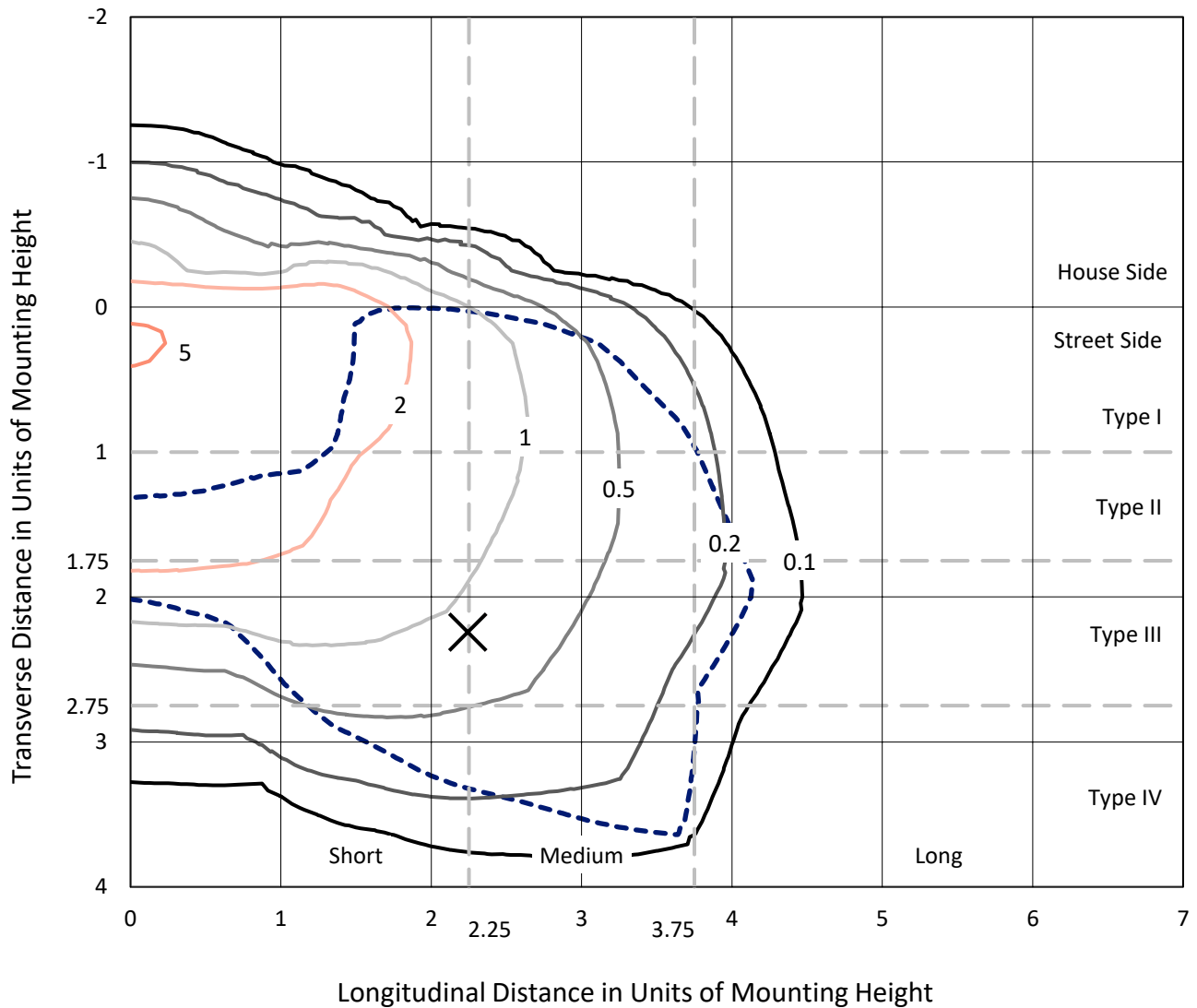
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

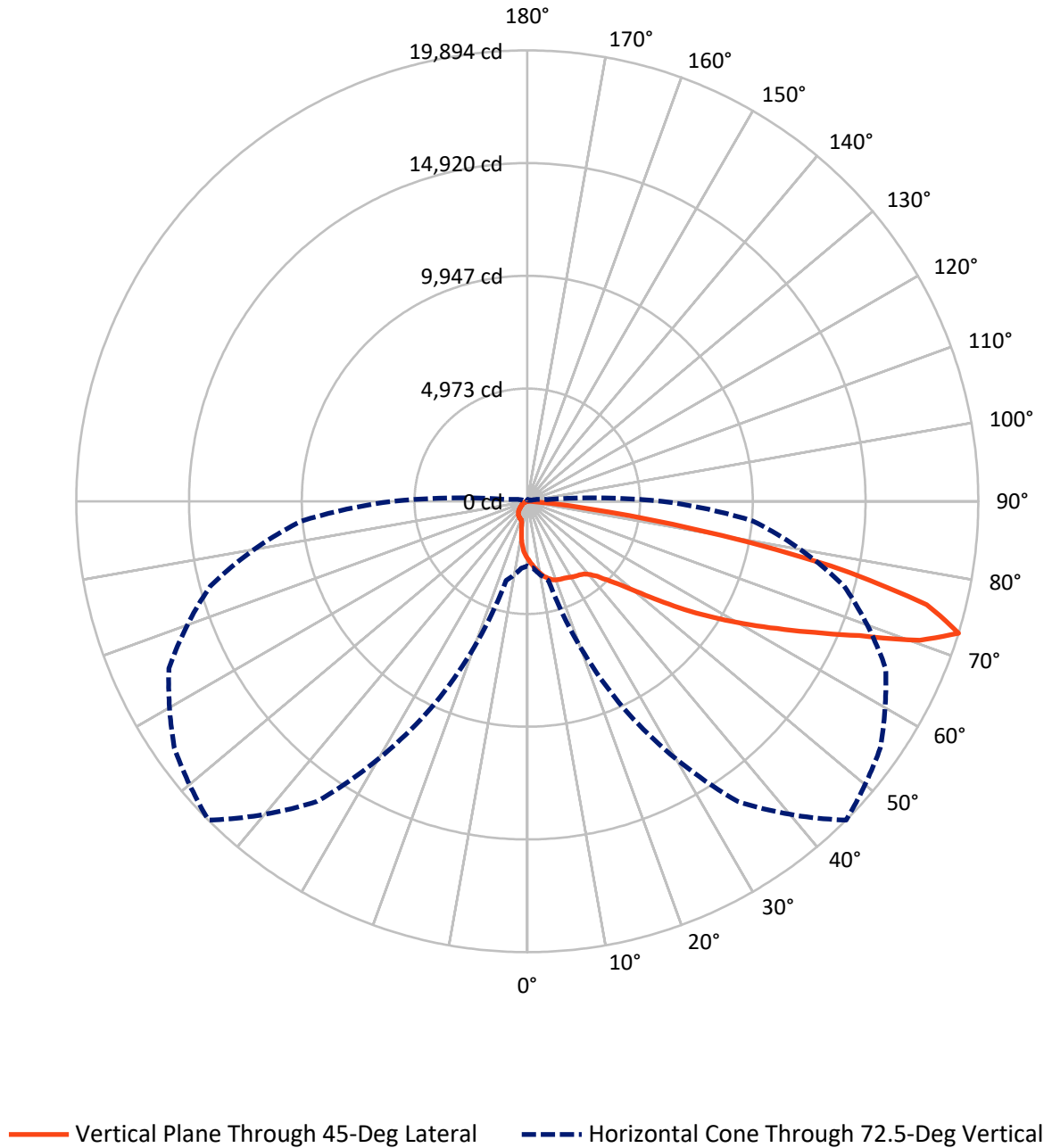
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	2429.3	0.0	2429.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	20690.7	0.0	20690.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	23120.0	0.0	23120.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.6	1.0
10°-20°	697.5	3.0
20°-30°	1145.3	5.0
30°-40°	1624.4	7.0
40°-50°	2684.9	11.6
50°-60°	4823.1	20.9
60°-70°	6697.1	29.0
70°-80°	4857.9	21.0
80°-90°	351.2	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°	23120.0	100.0
0°-180°	23120.0	100.0

Coefficient of Utilization



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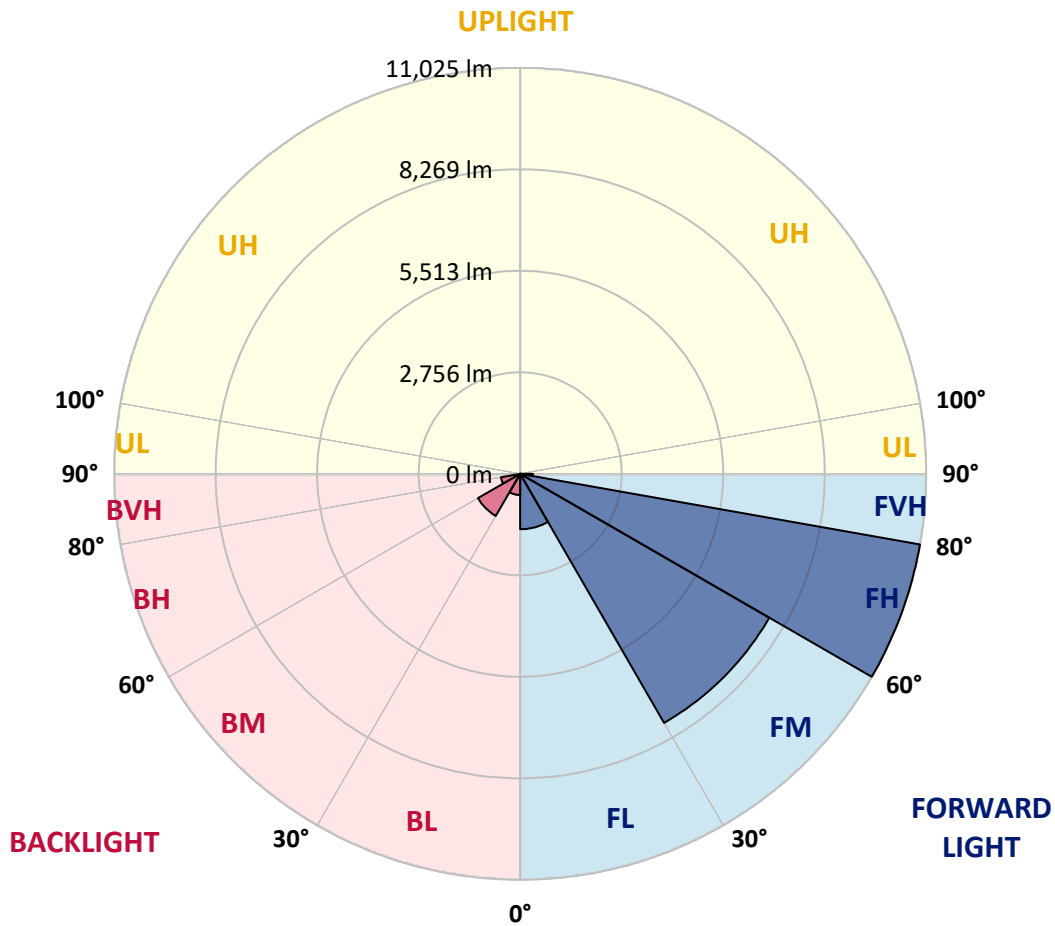
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1506.0	6.5			
FM (30°-60°)	7811.2	33.8			
FH (60°-80°)	11025.3	47.7			G4/12000
FVH (80°-90°)	348.3	1.5			G3/500
BL (0°-30°)	575.4	2.5	B2/1000		
BM (30°-60°)	1321.2	5.7	B2/2500		
BH (60°-80°)	529.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.0	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°	2532.8	2532.8	2532.8	2532.8	2532.8	2532.8	2532.8	2532.8	2532.8	2532.8
2.5°	2766.4	2771.1	2768.0	2749.0	2717.5	2700.1	2690.7	2659.1	2638.6	2602.3
5°	3020.5	3039.4	3028.4	2990.5	2930.5	2887.9	2875.3	2810.6	2752.2	2684.3
7.5°	3290.3	3299.8	3279.3	3230.4	3149.9	3077.3	3066.2	2976.3	2883.2	2779.0
10°	3523.9	3534.9	3503.4	3432.4	3340.8	3250.9	3235.1	3135.7	3025.2	2897.4
12.5°	3719.6	3730.6	3689.6	3604.4	3503.4	3410.3	3394.5	3290.3	3168.8	3026.8
15°	3867.9	3888.4	3833.2	3741.7	3632.8	3539.7	3531.8	3429.2	3310.8	3153.0
17.5°	3954.7	3975.2	3923.1	3812.7	3719.6	3640.7	3631.2	3546.0	3435.5	3284.0
20°	3968.9	3987.9	3932.6	3836.4	3759.0	3695.9	3691.2	3629.6	3549.1	3404.0
22.5°	3926.3	3950.0	3899.5	3822.2	3768.5	3735.4	3729.0	3694.3	3648.6	3525.5
25°	3882.1	3901.1	3863.2	3795.3	3766.9	3763.8	3768.5	3762.2	3752.7	3648.6
27.5°	3879.0	3899.5	3856.9	3792.2	3776.4	3809.5	3814.3	3844.2	3852.1	3760.6
30°	3905.8	3920.0	3879.0	3811.1	3803.2	3879.0	3880.5	3934.2	3946.8	3855.3
32.5°	3964.2	3980.0	3938.9	3839.5	3828.5	3934.2	3938.9	4009.9	4030.5	3956.3
35°	4101.5	4120.4	4073.1	3918.4	3879.0	3986.3	4000.5	4084.1	4125.1	4063.6
37.5°	4443.9	4388.7	4324.0	4077.8	3994.2	4068.3	4092.0	4189.8	4262.4	4191.4
40°	5294.5	5120.9	4918.9	4349.2	4196.2	4243.5	4262.4	4360.3	4459.7	4390.3
42.5°	6571.2	6366.0	6041.0	4974.2	4500.7	4524.4	4538.6	4623.8	4764.3	4709.0
45°	7709.0	7634.8	7303.4	6041.0	5070.4	4953.6	4971.0	5015.2	5221.9	5201.4
47.5°	8583.3	8540.7	8285.0	7265.6	6033.1	5479.2	5528.1	5548.6	5846.8	5919.4
50°	9255.5	9239.8	9010.9	8354.4	7290.8	6254.0	6271.4	6227.2	6673.8	6853.7
52.5°	9889.9	9943.6	9774.7	9366.0	8633.8	7268.7	7265.6	7057.2	7660.1	7931.5
55°	10462.8	10481.7	10499.1	10398.1	9984.6	8423.9	8393.9	8053.0	8804.2	9085.1
57.5°	11000.9	11008.8	11163.5	11370.2	11390.7	9664.3	9609.0	9200.3	10054.1	10254.5
60°	11362.3	11398.6	11725.3	12299.7	12550.6	10944.1	10914.1	10497.5	11326.0	11419.1
62.5°	10841.5	11062.5	11886.2	13025.6	13645.8	12362.8	12348.6	11957.2	12664.2	12588.5
65°	8775.8	9149.8	10598.5	13516.4	14720.5	13947.2	13967.7	13551.1	14038.7	13792.6
67.5°	6138.8	6533.3	8247.1	13555.9	15921.4	15807.8	15926.2	15272.8	15498.5	14946.2
70°	4245.1	4448.7	5564.4	12706.8	16857.2	18370.6	18367.5	17387.5	16950.3	15471.7
72.5°	2854.8	2960.5	3613.8	10080.9	16169.2	19893.5	19802.0	19003.4	17439.5	14469.6
75°	1204.1	1281.4	1672.8	5665.4	12792.1	18200.2	17952.4	16794.1	15495.3	11393.9
77.5°	381.9	415.0	659.6	2027.9	7046.2	13680.5	13418.6	10488.0	10385.5	5715.9
80°	181.5	211.5	370.9	814.3	2772.7	7440.7	7404.4	4758.0	4467.6	1543.4
82.5°	78.9	93.1	205.2	435.6	1240.4	2654.4	2708.0	1619.1	1339.8	585.5
85°	25.2	33.1	94.7	200.4	523.9	659.6	651.8	385.1	539.7	318.8
87.5°	0.0	0.0	31.6	45.8	53.7	37.9	42.6	33.1	149.9	88.4
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°
2532.8	0°	2532.8	2532.8	2532.8	2532.8	2532.8	2532.8	2532.8	2532.8	2532.8	2532.8
2564.4	2.5°	2545.5	2520.2	2476.0	2435.0	2398.7	2362.4	2340.3	2308.8	2305.6	2305.6
2605.4	5°	2562.8	2521.8	2442.9	2359.3	2263.0	2171.5	2079.9	1991.6	1963.2	1942.6
2671.7	7.5°	2613.3	2548.6	2424.0	2264.6	2081.5	1881.1	1740.6	1589.1	1530.8	1499.2
2760.1	10°	2685.9	2597.5	2408.2	2128.9	1832.2	1559.2	1358.7	1194.6	1131.5	1104.7
2856.4	12.5°	2766.4	2657.5	2379.8	1960.0	1559.2	1232.5	1036.8	961.1	951.6	951.6
2971.6	15°	2862.7	2730.1	2330.8	1761.2	1273.5	975.3	905.8	909.0	918.5	924.8
3083.6	17.5°	2962.1	2807.4	2253.5	1538.6	1021.0	877.4	879.0	883.7	891.6	897.9
3205.1	20°	3069.4	2884.8	2150.9	1301.9	875.8	849.0	853.8	858.5	864.8	868.0
3318.7	22.5°	3184.6	2957.4	2029.4	1069.9	826.9	825.3	826.9	831.7	839.5	839.5
3451.3	25°	3307.7	3037.8	1890.6	901.1	801.7	801.7	804.8	808.0	814.3	814.3
3579.1	27.5°	3433.9	3112.0	1743.8	812.7	779.6	778.0	778.0	782.7	785.9	787.5
3705.4	30°	3572.8	3198.8	1597.0	793.8	762.2	754.3	749.6	752.8	755.9	757.5
3837.9	32.5°	3714.8	3282.4	1466.1	801.7	744.9	730.7	714.9	711.7	711.7	718.0
3975.2	35°	3872.6	3374.0	1365.1	828.5	735.4	695.9	670.7	656.5	658.1	667.5
4139.3	37.5°	4062.0	3484.4	1290.9	852.2	729.1	656.5	615.5	598.1	587.1	598.1
4365.0	40°	4309.8	3647.0	1237.2	871.1	721.2	610.7	555.5	527.1	506.6	512.9
4715.4	42.5°	4674.3	3902.6	1216.7	872.7	703.8	557.1	493.9	456.1	426.1	427.7
5242.4	45°	5185.6	4306.6	1322.4	852.2	666.0	498.7	429.2	378.7	359.8	355.1
6029.9	47.5°	5886.3	4895.3	1567.1	809.6	610.7	441.9	366.1	323.5	309.3	301.4
7063.6	50°	6825.3	5651.2	1838.5	762.2	555.5	388.2	314.0	287.2	277.7	269.9
8289.7	52.5°	7914.2	6418.1	2061.0	714.9	500.3	340.9	280.9	265.1	257.2	250.9
9473.3	55°	8913.1	6946.8	2048.4	664.4	446.6	303.0	257.2	247.8	238.3	232.0
10492.8	57.5°	9534.9	7021.0	1688.6	609.1	385.1	273.0	235.1	228.8	217.8	209.9
11374.9	60°	9820.5	6598.0	1183.6	536.6	323.5	244.6	211.5	208.3	194.1	183.1
12209.7	62.5°	9872.6	5812.1	789.0	446.6	269.9	217.8	187.8	183.1	164.1	145.2
12888.3	65°	9661.1	4688.5	546.0	348.8	230.4	189.4	161.0	151.5	131.0	112.0
13049.3	67.5°	8992.0	3291.9	380.3	250.9	195.7	149.9	127.8	124.7	108.9	93.1
12228.7	70°	7765.8	1876.4	254.1	187.8	154.7	102.6	101.0	104.2	88.4	75.7
9990.9	72.5°	5954.2	858.5	157.8	137.3	105.7	69.4	80.5	82.1	67.9	56.8
6233.5	75°	3505.0	367.7	99.4	88.4	53.7	45.8	58.4	60.0	45.8	36.3
2278.8	77.5°	1193.0	138.9	63.1	52.1	26.8	25.2	37.9	37.9	25.2	14.2
457.6	80°	271.4	52.1	31.6	20.5	12.6	11.0	12.6	11.0	6.3	1.6
140.5	82.5°	77.3	20.5	12.6	7.9	4.7	4.7	1.6	0.0	0.0	0.0
48.9	85°	22.1	9.5	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0
17.4	87.5°	9.5	1.6	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>
2532.8
2313.5
1952.1
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869.5
842.7
815.9
789.0
760.6
722.8
672.3
594.9
509.7
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