

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: P949931

Luminaire Tested: **GALN-SB4C-740-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949931  
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-740-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

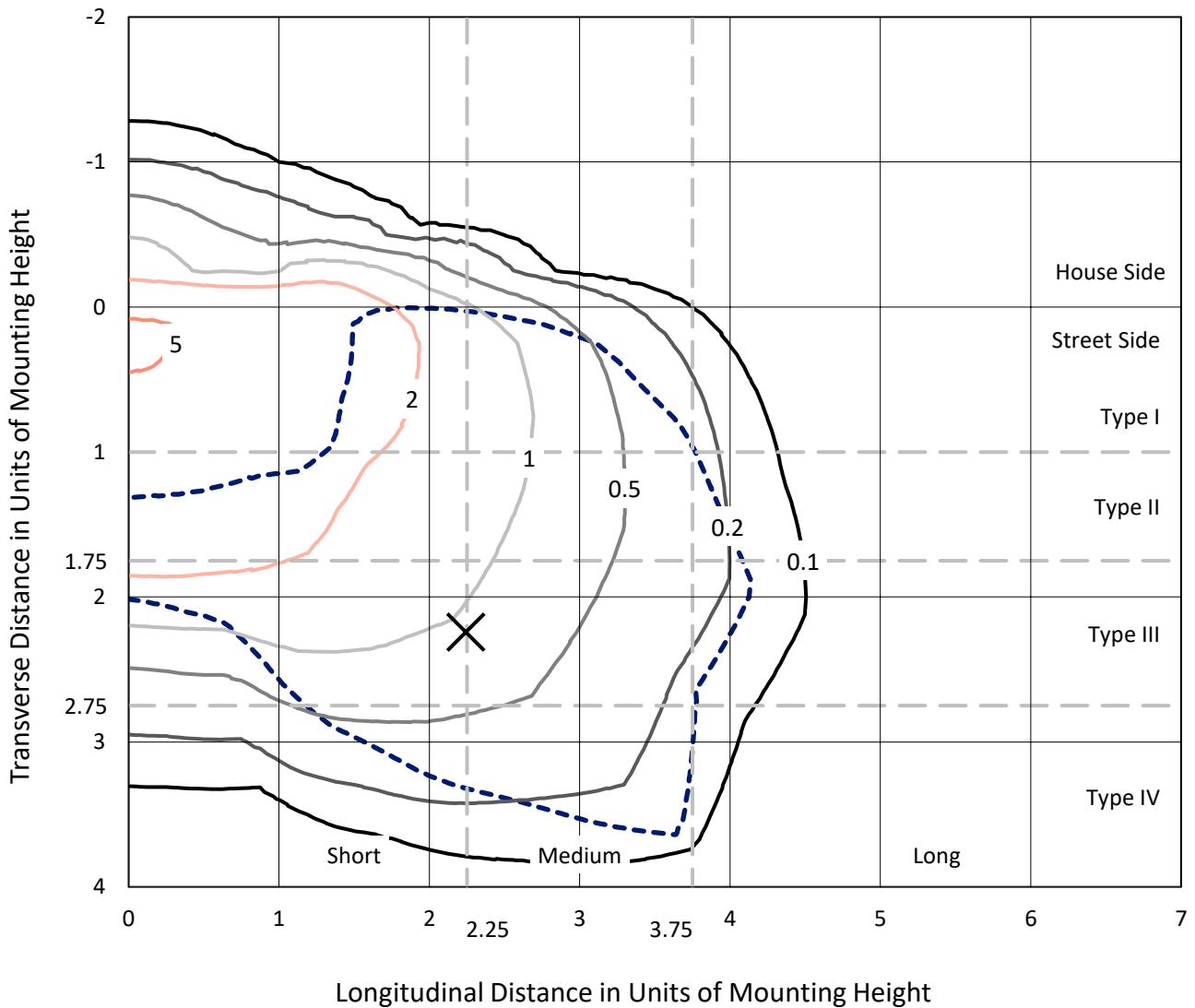
Lumens per Lamp: N/A  
Luminaire Lumens: 24460 lumens  
Efficiency: N/A  
Efficacy: 121.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

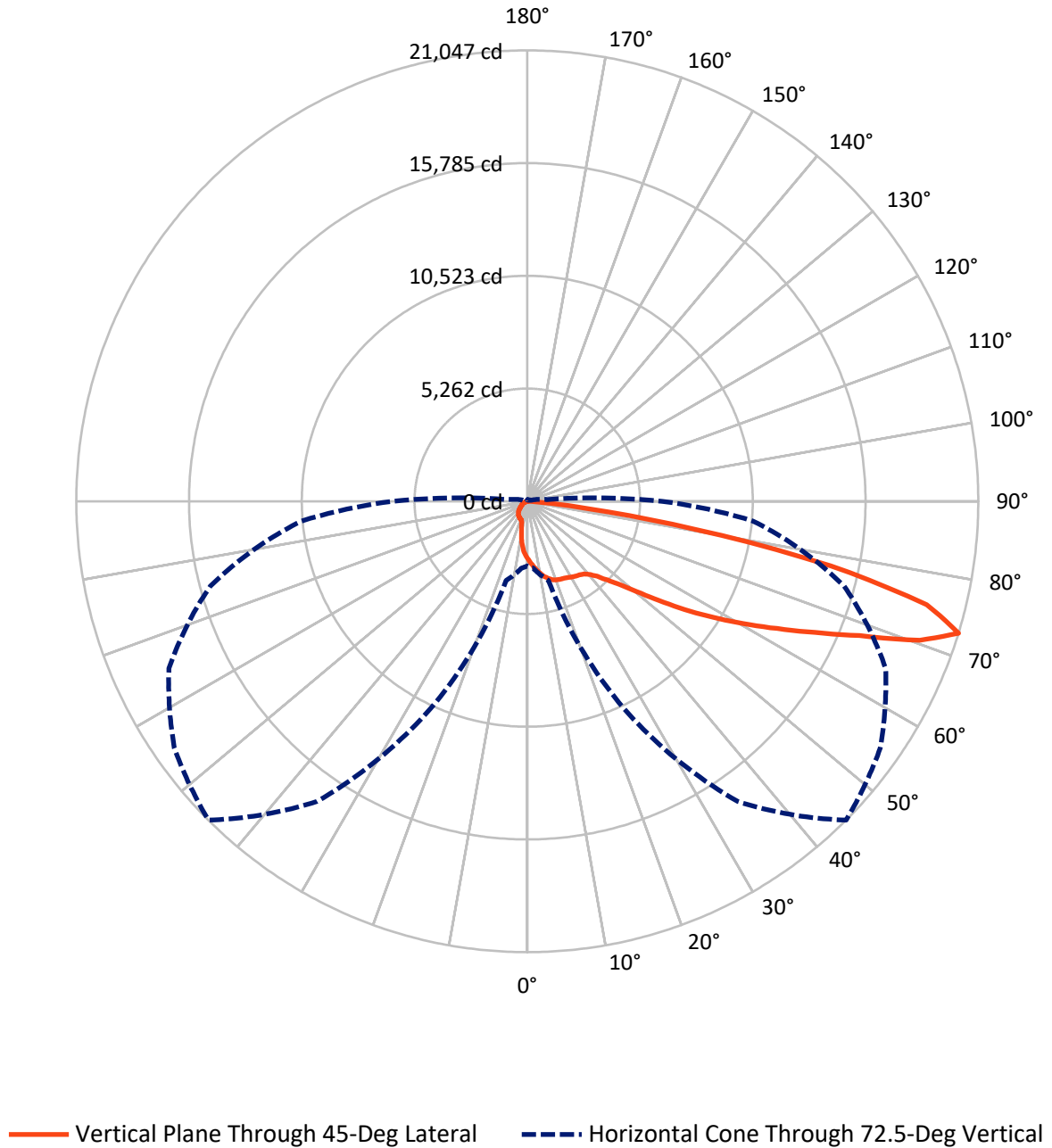
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	2570.1	0.0	2570.1
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	21889.9	0.0	21889.9
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	24460.0	0.0	24460.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.5	1.0
10°-20°	737.9	3.0
20°-30°	1211.7	5.0
30°-40°	1718.5	7.0
40°-50°	2840.5	11.6
50°-60°	5102.6	20.9
60°-70°	7085.3	29.0
70°-80°	5139.4	21.0
80°-90°	371.6	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°	24460.0	100.0
0°-180°	24460.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P949931

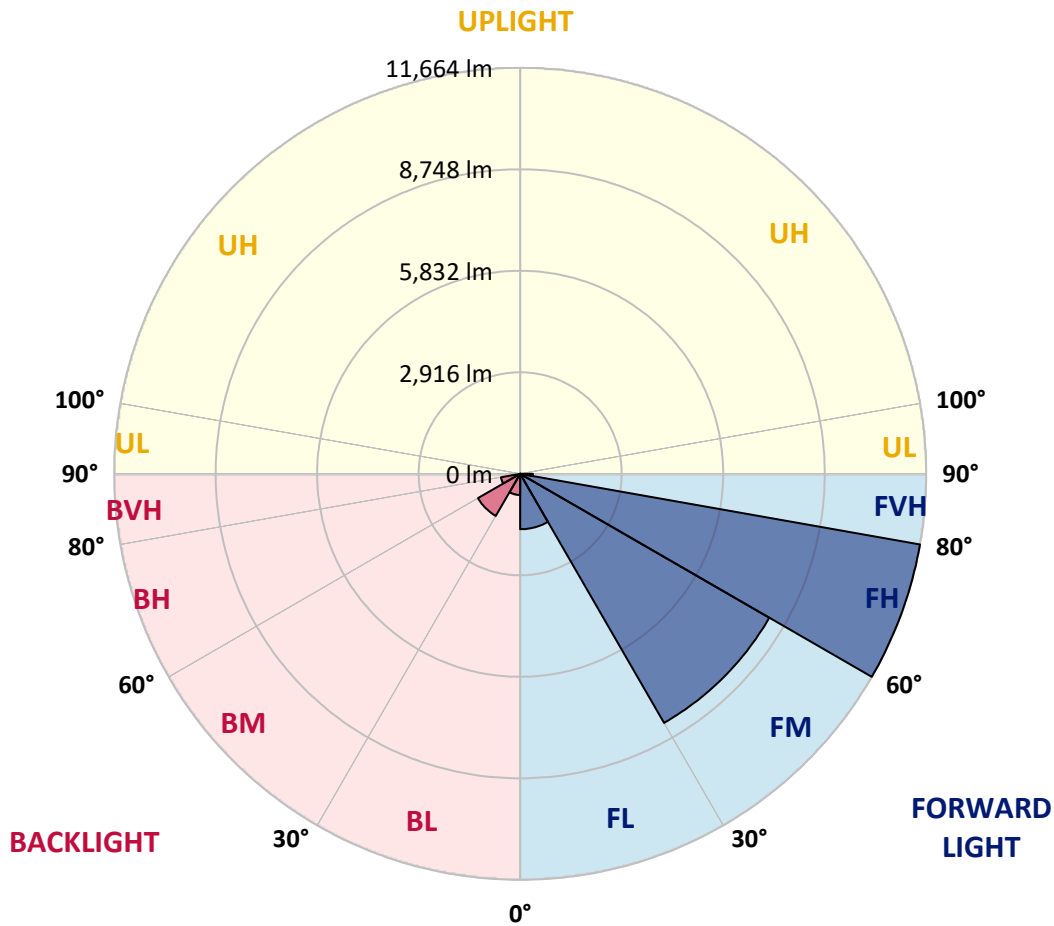
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1593.3	6.5			
FM (30°-60°)	8263.9	33.8			
FH (60°-80°)	11664.3	47.7			G4/12000
FVH (80°-90°)	368.4	1.5			G3/500
BL (0°-30°)	608.7	2.5	B2/1000		
BM (30°-60°)	1397.8	5.7	B2/2500		
BH (60°-80°)	560.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.1	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°	2679.6	2679.6	2679.6	2679.6	2679.6	2679.6	2679.6	2679.6	2679.6	2679.6
2.5°	2926.7	2931.7	2928.4	2908.4	2875.0	2856.6	2846.6	2813.2	2791.5	2753.1
5°	3195.5	3215.6	3203.9	3163.8	3100.4	3055.3	3041.9	2973.5	2911.7	2839.9
7.5°	3481.0	3491.1	3469.3	3417.6	3332.4	3255.6	3244.0	3148.8	3050.3	2940.1
10°	3728.1	3739.8	3706.4	3631.3	3534.5	3439.3	3422.6	3317.4	3200.5	3065.3
12.5°	3935.2	3946.8	3903.4	3813.3	3706.4	3607.9	3591.2	3481.0	3352.5	3202.2
15°	4092.1	4113.8	4055.4	3958.5	3843.3	3744.8	3736.5	3628.0	3502.7	3335.8
17.5°	4183.9	4205.6	4150.5	4033.7	3935.2	3851.7	3841.7	3751.5	3634.6	3474.4
20°	4198.9	4219.0	4160.5	4058.7	3976.9	3910.1	3905.1	3840.0	3754.8	3601.2
22.5°	4153.9	4178.9	4125.5	4043.7	3986.9	3951.9	3945.2	3908.4	3860.0	3729.8
25°	4107.1	4127.2	4087.1	4015.3	3985.2	3981.9	3986.9	3980.2	3970.2	3860.0
27.5°	4103.8	4125.5	4080.4	4012.0	3995.3	4030.3	4035.3	4067.1	4075.4	3978.6
30°	4132.2	4147.2	4103.8	4032.0	4023.6	4103.8	4105.4	4162.2	4175.6	4078.7
32.5°	4193.9	4210.6	4167.2	4062.0	4050.4	4162.2	4167.2	4242.4	4264.1	4185.6
35°	4339.2	4359.2	4309.1	4145.5	4103.8	4217.3	4232.3	4320.8	4364.2	4299.1
37.5°	4701.5	4643.0	4574.6	4314.1	4225.7	4304.1	4329.2	4432.7	4509.5	4434.4
40°	5601.4	5417.7	5204.0	4601.3	4439.4	4489.4	4509.5	4613.0	4718.2	4644.7
42.5°	6952.1	6735.0	6391.1	5262.5	4761.6	4786.6	4801.7	4891.8	5040.4	4982.0
45°	8155.8	8077.3	7726.7	6391.1	5364.3	5240.8	5259.1	5305.9	5524.6	5502.9
47.5°	9080.7	9035.7	8765.2	7686.7	6382.7	5796.7	5848.5	5870.2	6185.7	6262.5
50°	9792.0	9775.3	9533.2	8838.7	7713.4	6616.5	6634.8	6588.1	7060.6	7250.9
52.5°	10463.1	10519.9	10341.3	9908.8	9134.2	7690.0	7686.7	7466.3	8104.0	8391.2
55°	11069.2	11089.2	11107.6	11000.7	10563.3	8912.1	8880.4	8519.8	9314.5	9611.7
57.5°	11638.5	11646.9	11810.5	12029.2	12050.9	10224.4	10166.0	9733.5	10636.8	10848.8
60°	12020.8	12059.2	12404.8	13012.6	13278.0	11578.4	11546.7	11105.9	11982.4	12080.9
62.5°	11469.9	11703.6	12575.1	13780.6	14436.7	13079.3	13064.3	12650.3	13398.2	13318.1
65°	9284.4	9680.1	11212.8	14299.8	15573.7	14755.6	14777.3	14336.5	14852.4	14592.0
67.5°	6494.6	6912.0	8725.1	14341.5	16844.2	16724.0	16849.2	16158.0	16396.8	15812.4
70°	4491.1	4706.5	5886.9	13443.3	17834.2	19435.4	19432.0	18395.2	17932.8	16368.4
72.5°	3020.2	3132.1	3823.3	10665.2	17106.3	21046.5	20949.6	20104.9	18450.3	15308.2
75°	1273.9	1355.7	1769.7	5993.7	13533.5	19255.0	18992.9	17767.5	16393.4	12054.2
77.5°	404.0	439.1	697.9	2145.4	7454.6	14473.4	14196.3	11095.9	10987.4	6047.1
80°	192.0	223.7	392.3	861.5	2933.4	7872.0	7833.6	5033.7	4726.5	1632.8
82.5°	83.5	98.5	217.0	460.8	1312.3	2808.2	2865.0	1713.0	1417.5	619.4
85°	26.7	35.1	100.2	212.0	554.3	697.9	689.5	407.4	571.0	337.3
87.5°	0.0	0.0	33.4	48.4	56.8	40.1	45.1	35.1	158.6	93.5
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°
2679.6	0°	2679.6	2679.6	2679.6	2679.6	2679.6	2679.6	2679.6	2679.6	2679.6	2679.6
2713.0	2.5°	2693.0	2666.3	2619.5	2576.1	2537.7	2499.3	2476.0	2442.6	2439.2	2439.2
2756.4	5°	2711.4	2668.0	2584.5	2496.0	2394.2	2297.3	2200.5	2107.0	2076.9	2055.2
2826.6	7.5°	2764.8	2696.3	2564.4	2395.8	2202.2	1990.1	1841.5	1681.2	1619.5	1586.1
2920.1	10°	2841.6	2748.1	2547.7	2252.2	1938.4	1649.5	1437.5	1263.9	1197.1	1168.7
3021.9	12.5°	2926.7	2811.5	2517.7	2073.6	1649.5	1303.9	1096.9	1016.8	1006.7	1006.7
3143.8	15°	3028.6	2888.3	2465.9	1863.2	1347.3	1031.8	958.3	961.7	971.7	978.4
3262.3	17.5°	3133.8	2970.1	2384.1	1627.8	1080.2	928.3	929.9	935.0	943.3	950.0
3390.9	20°	3247.3	3052.0	2275.6	1377.4	926.6	898.2	903.2	908.2	914.9	918.3
3511.1	22.5°	3369.2	3128.8	2147.1	1132.0	874.8	873.2	874.8	879.9	888.2	888.2
3651.3	25°	3499.4	3213.9	2000.1	953.3	848.1	848.1	851.5	854.8	861.5	861.5
3786.6	27.5°	3633.0	3292.4	1844.9	859.8	824.8	823.1	823.1	828.1	831.4	833.1
3920.1	30°	3779.9	3384.2	1689.6	839.8	806.4	798.1	793.0	796.4	799.7	801.4
4060.4	32.5°	3930.1	3472.7	1551.0	848.1	788.0	773.0	756.3	753.0	753.0	759.7
4205.6	35°	4097.1	3569.5	1444.2	876.5	778.0	736.3	709.6	694.5	696.2	706.2
4379.3	37.5°	4297.4	3686.4	1365.7	901.6	771.3	694.5	651.1	632.8	621.1	632.8
4618.0	40°	4559.6	3858.4	1308.9	921.6	763.0	646.1	587.7	557.6	535.9	542.6
4988.6	42.5°	4945.2	4128.8	1287.2	923.3	744.6	589.4	522.6	482.5	450.8	452.5
5546.3	45°	5486.2	4556.2	1399.1	901.6	704.6	527.6	454.1	400.7	380.7	375.7
6379.4	47.5°	6227.5	5179.0	1657.9	856.5	646.1	467.5	387.3	342.3	327.2	318.9
7473.0	50°	7220.9	5978.7	1945.0	806.4	587.7	410.7	332.2	303.9	293.8	285.5
8770.2	52.5°	8372.8	6790.1	2180.4	756.3	529.3	360.6	297.2	280.5	272.1	265.5
10022.4	55°	9429.7	7349.4	2167.1	702.9	472.5	320.6	272.1	262.1	252.1	245.4
11100.9	57.5°	10087.5	7427.9	1786.4	644.5	407.4	288.8	248.8	242.1	230.4	222.1
12034.2	60°	10389.7	6980.4	1252.2	567.7	342.3	258.8	223.7	220.4	205.4	193.7
12917.4	62.5°	10444.8	6149.0	834.8	472.5	285.5	230.4	198.7	193.7	173.6	153.6
13635.3	65°	10221.1	4960.3	577.7	369.0	243.8	200.3	170.3	160.3	138.6	118.5
13805.6	67.5°	9513.2	3482.7	402.4	265.5	207.0	158.6	135.2	131.9	115.2	98.5
12937.4	70°	8215.9	1985.1	268.8	198.7	163.6	108.5	106.9	110.2	93.5	80.1
10570.0	72.5°	6299.3	908.2	167.0	145.3	111.9	73.5	85.1	86.8	71.8	60.1
6594.8	75°	3708.1	389.0	105.2	93.5	56.8	48.4	61.8	63.4	48.4	38.4
2410.8	77.5°	1262.2	146.9	66.8	55.1	28.4	26.7	40.1	40.1	26.7	15.0
484.2	80°	287.2	55.1	33.4	21.7	13.4	11.7	13.4	11.7	6.7	1.7
148.6	82.5°	81.8	21.7	13.4	8.3	5.0	5.0	1.7	0.0	0.0	0.0
51.8	85°	23.4	10.0	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0
18.4	87.5°	10.0	1.7	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>
2679.6
2447.6
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711.2
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