

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: P952760

Luminaire Tested: **GALN-SB6C-735-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952760
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6C-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38451 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

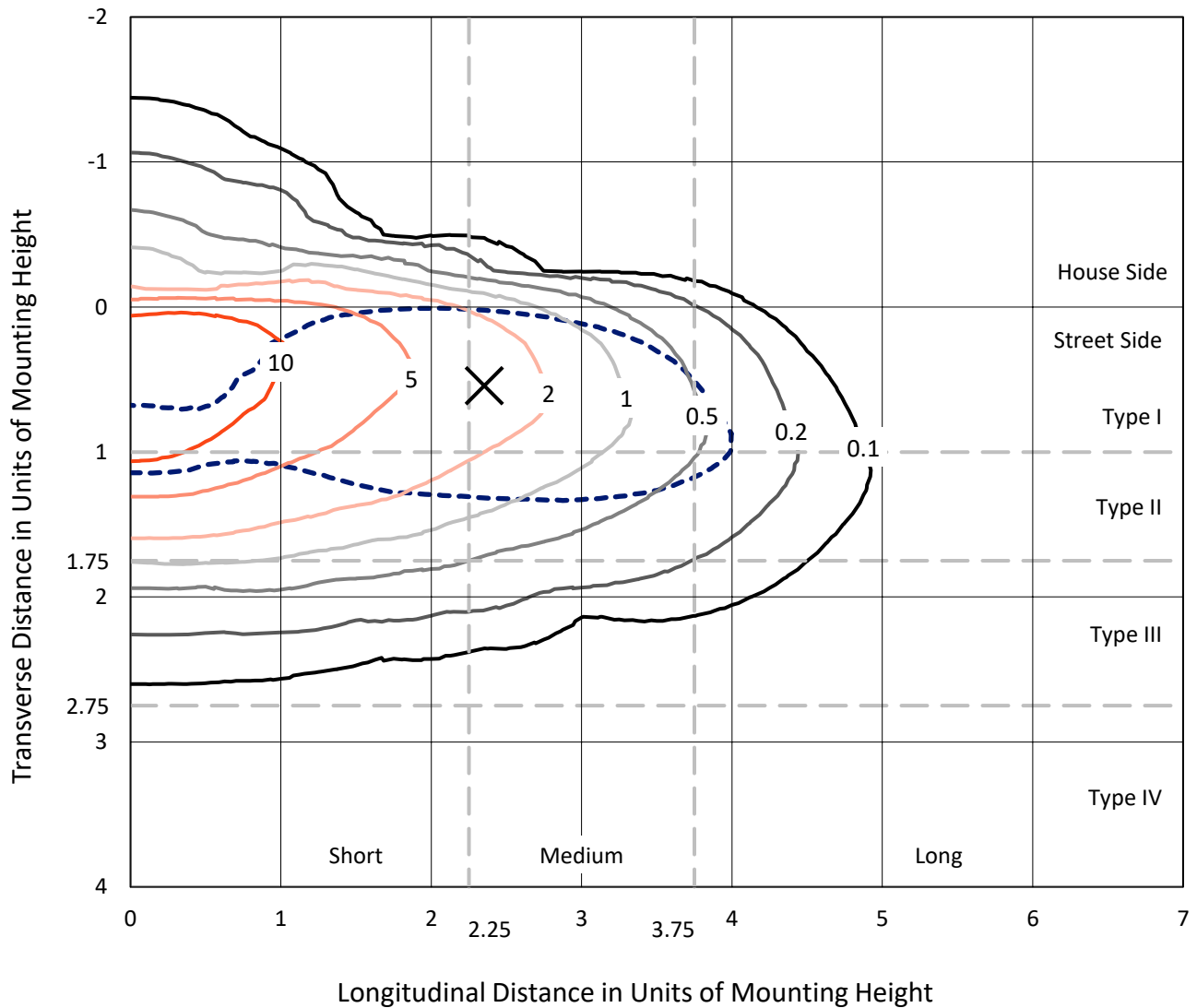
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

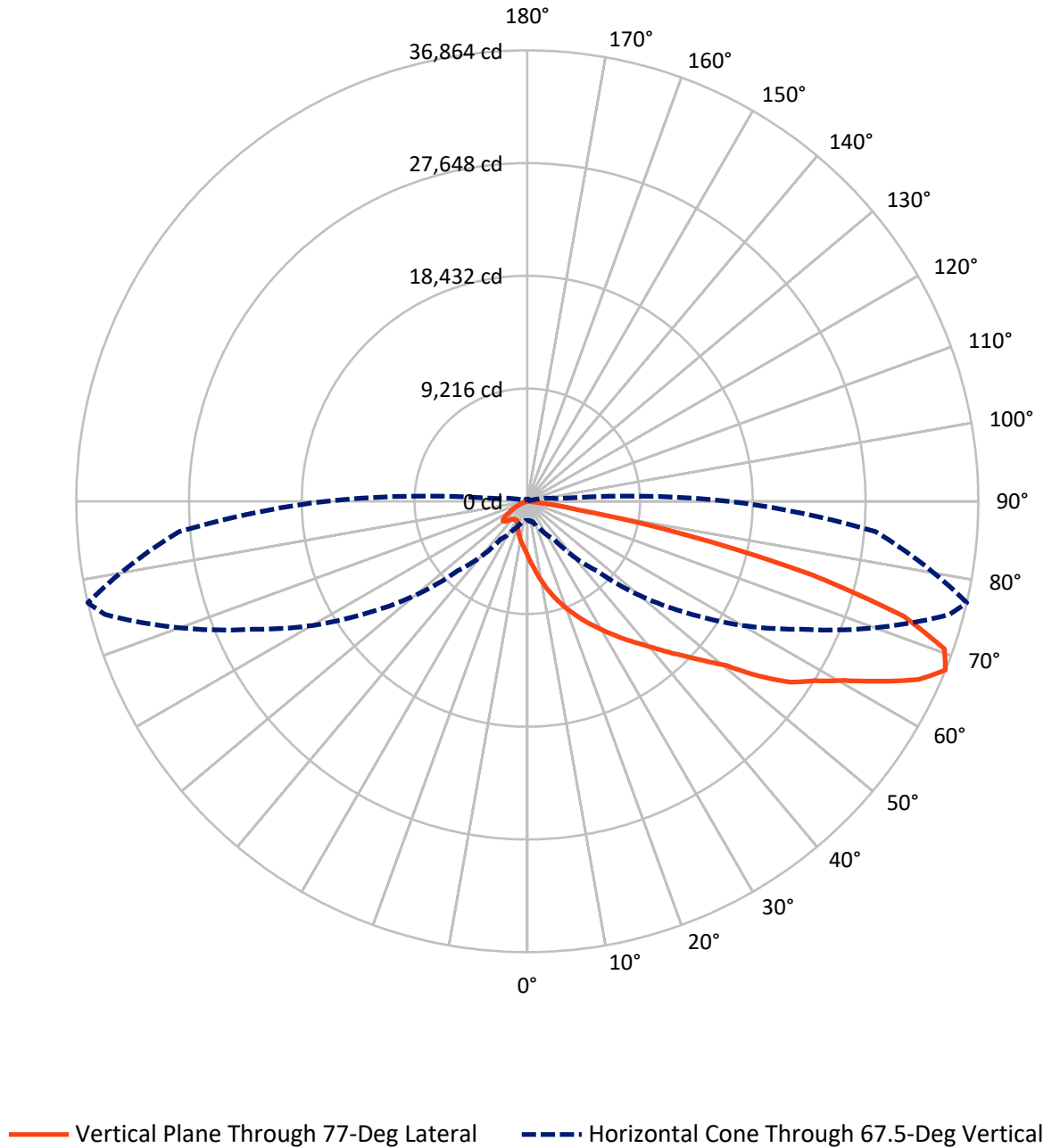
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2828.9	0.0	2828.9
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	35622.1	0.0	35622.1
	% Fixture	92.6	0.0	92.6
Total	Lumens	38451.0	0.0	38451.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.6	1.2
10°-20°	1584.8	4.1
20°-30°	3058.2	8.0
30°-40°	5309.3	13.8
40°-50°	7708.8	20.0
50°-60°	8852.6	23.0
60°-70°	7685.7	20.0
70°-80°	3620.0	9.4
80°-90°	179.0	0.5
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°	38451.0	100.0
0°-180°	38451.0	100.0

Coefficient of Utilization



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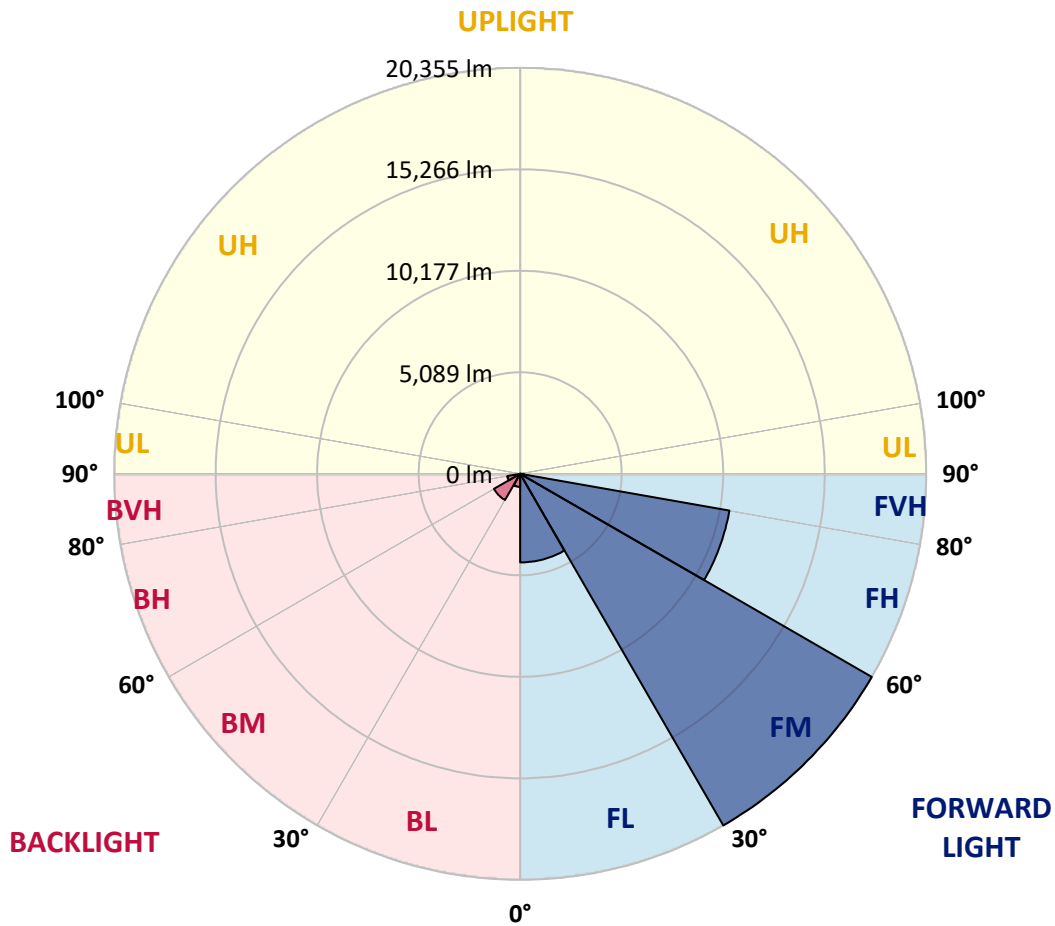
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4440.7	11.5			
FM (30°-60°)	20354.9	52.9			
FH (60°-80°)	10650.8	27.7			G4/12000
FVH (80°-90°)	175.7	0.5			G2/225
BL (0°-30°)	654.9	1.7	B2/1000		
BM (30°-60°)	1515.7	3.9	B2/2500		
BH (60°-80°)	654.9	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.3	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4434.0	4434.0	4434.0	4434.0	4434.0	4434.0	4434.0	4434.0	4434.0	4434.0
2.5°	6138.8	6177.0	6122.1	6017.0	5859.4	5756.8	5506.0	5269.7	5007.0	4923.4
5°	7483.1	7516.5	7454.4	7339.8	7129.7	6929.1	6599.6	6105.4	5592.0	5427.3
7.5°	8478.7	8497.8	8474.0	8368.9	8168.3	7941.5	7573.8	6988.8	6227.1	6045.7
10°	9195.0	9257.1	9250.0	9209.4	9075.7	8891.8	8500.2	7834.1	6938.7	6704.7
12.5°	9670.2	9739.4	9780.0	9870.8	9863.6	9746.6	9402.8	8698.4	7647.8	7373.2
15°	9808.7	9882.7	10037.9	10248.0	10434.3	10494.0	10252.8	9546.0	8428.6	8077.6
17.5°	9729.9	9844.5	10030.7	10362.6	10770.9	11040.7	11014.5	10365.0	9137.7	8736.6
20°	9904.2	10014.0	10159.7	10439.0	10914.2	11403.7	11599.5	11148.2	9842.1	9421.9
22.5°	10868.8	10849.7	10864.1	10909.4	11193.6	11678.3	12081.8	11859.7	10539.3	10109.5
25°	12397.0	12311.0	12165.3	11919.4	11847.8	12081.8	12502.0	12490.1	11274.7	10813.9
27.5°	14149.5	14135.2	13793.8	13201.6	12867.3	12776.6	12977.2	13103.7	12003.0	11511.1
30°	15828.1	15866.3	15405.5	14746.5	14132.8	13777.0	13595.6	13686.3	12743.2	12263.2
32.5°	17289.4	17330.0	16828.5	16057.3	15298.0	14868.2	14486.2	14261.8	13550.2	13027.3
35°	18523.8	18564.4	17989.0	17136.5	16327.1	15937.9	15505.7	14892.1	14362.0	13874.9
37.5°	19626.9	19615.0	18843.8	17984.2	17189.1	16881.1	16654.2	15668.1	15197.7	14727.4
40°	20278.8	20328.9	19669.9	18722.0	17950.8	17726.3	17712.0	16630.4	16162.4	15706.3
42.5°	20469.8	20558.1	20080.6	19302.2	18602.6	18359.1	18733.9	17671.4	17284.6	16840.5
45°	20126.0	20211.9	19994.6	19455.0	19046.7	18889.1	19612.6	18750.6	18483.2	18043.9
47.5°	19123.1	19230.6	19283.1	19168.5	19163.7	19323.7	20400.5	19887.2	19906.3	19457.4
50°	17181.9	17363.4	17845.7	18251.6	18879.6	19667.5	21167.0	21119.2	21510.8	21124.0
52.5°	13652.9	13910.8	15572.6	16682.9	18094.0	19603.0	22009.9	23096.3	24325.9	23760.0
55°	10971.5	10971.5	12322.9	14400.2	16561.1	19178.0	22377.6	24380.8	26243.2	26109.5
57.5°	8944.3	9051.8	9913.7	11749.9	14342.9	18165.6	22604.4	25187.9	27788.1	27690.2
60°	5520.4	5752.0	7380.4	9192.7	11819.1	16362.9	22461.1	26004.5	29662.4	29741.2
62.5°	3108.8	3194.7	3920.6	6613.9	9190.3	13939.4	21365.2	26460.5	32059.7	32394.0
65°	2146.5	2189.5	2468.9	4116.4	6370.4	11098.0	19223.4	26176.4	34461.7	35137.4
67.5°	1559.2	1580.7	1755.0	2514.3	3779.7	8046.6	15866.3	24743.8	35734.4	36863.8
70°	1198.6	1213.0	1339.5	1652.3	2232.5	4966.4	11523.1	21895.2	34812.7	36161.8
72.5°	974.2	988.5	1086.4	1222.5	1480.4	2936.9	6984.0	17781.2	30744.1	32200.6
75°	821.4	840.5	928.8	1017.2	1160.4	1886.3	3275.9	12382.6	23120.1	24075.2
77.5°	456.1	420.2	754.5	842.9	979.0	1193.9	1532.9	7287.3	12948.5	13213.6
80°	284.1	293.7	599.3	678.1	752.1	601.7	702.0	2805.6	4488.9	4264.4
82.5°	16.7	38.2	460.8	489.5	515.7	257.9	265.0	952.7	1081.6	993.3
85°	0.0	0.0	210.1	169.5	179.1	74.0	76.4	222.1	145.6	157.6
87.5°	0.0	0.0	0.0	4.8	0.0	7.2	14.3	19.1	7.2	9.6
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°
4434.0	0°	4434.0	4434.0	4434.0	4434.0	4434.0	4434.0	4434.0	4434.0	4434.0	4434.0
4660.8	2.5°	4493.7	4326.5	3987.5	3655.6	3385.8	3135.1	2956.0	2786.5	2700.5	2695.7
4961.6	5°	4629.8	4278.8	3600.7	3001.3	2519.0	2132.2	1881.5	1702.4	1611.7	1580.7
5331.7	7.5°	4820.8	4293.1	3261.6	2428.3	1860.0	1528.1	1384.9	1327.6	1308.5	1287.0
5749.6	10°	5061.9	4326.5	2958.4	1955.5	1466.0	1298.9	1241.6	1217.7	1203.4	1189.1
6220.0	12.5°	5331.7	4357.6	2657.5	1623.6	1289.4	1203.4	1162.8	1134.2	1115.1	1098.3
6702.3	15°	5594.4	4376.7	2344.7	1392.0	1198.6	1129.4	1086.4	1055.4	1029.1	1010.0
7175.0	17.5°	5854.6	4402.9	2051.0	1253.5	1124.6	1055.4	1012.4	974.2	952.7	931.2
7671.7	20°	6143.6	4398.1	1774.1	1155.6	1050.6	981.3	936.0	900.2	878.7	854.8
8197.0	22.5°	6411.0	4374.3	1530.5	1072.1	974.2	907.3	857.2	821.4	799.9	780.8
8734.2	25°	6719.0	4355.2	1327.6	995.7	902.6	835.7	780.8	747.4	723.5	706.8
9273.8	27.5°	7015.1	4326.5	1179.5	926.4	833.3	768.8	716.3	678.1	656.6	644.7
9830.2	30°	7306.4	4319.4	1124.6	859.6	771.2	706.8	654.2	618.4	601.7	596.9
10441.4	32.5°	7657.4	4338.5	1148.5	835.7	713.9	649.5	599.3	573.0	556.3	556.3
11121.9	35°	8032.2	4333.7	1184.3	857.2	675.7	592.2	553.9	537.2	520.5	520.5
11876.4	37.5°	8502.6	4340.8	1213.0	893.0	661.4	544.4	522.9	501.4	491.9	491.9
12702.6	40°	9204.6	4577.2	1198.6	924.0	656.6	511.0	468.0	460.8	453.7	453.7
13636.2	42.5°	10064.2	5090.6	1217.7	926.4	654.2	487.1	429.8	444.1	427.4	425.0
14689.2	45°	11004.9	5651.7	1339.5	876.3	651.8	475.2	410.7	427.4	401.1	401.1
15909.3	47.5°	11938.5	6208.0	1463.7	804.7	644.7	472.8	394.0	384.4	377.3	379.6
17499.5	50°	13225.5	6661.7	1511.4	706.8	628.0	468.0	362.9	365.3	360.5	365.3
19741.5	52.5°	14627.1	6757.2	1454.1	596.9	580.2	453.7	341.4	351.0	348.6	353.4
21319.8	55°	15501.0	6654.5	1201.0	496.6	506.2	396.4	320.0	339.1	339.1	339.1
22862.3	57.5°	16403.5	6217.6	852.4	403.5	420.2	324.7	300.9	327.1	324.7	322.3
24719.9	60°	17053.0	5510.8	561.1	331.9	334.3	267.4	279.4	308.0	305.6	293.7
26634.8	62.5°	17537.7	4730.0	360.5	281.7	255.5	241.2	255.5	279.4	269.8	243.5
28258.5	65°	17482.8	3648.4	277.0	241.2	210.1	210.1	222.1	243.5	214.9	171.9
28568.9	67.5°	16463.2	2468.9	229.2	203.0	176.7	174.3	183.9	203.0	183.9	145.6
26978.7	70°	14641.4	1614.1	183.9	157.6	140.9	128.9	148.0	174.3	155.2	117.0
22967.3	72.5°	11883.6	983.7	138.5	114.6	102.7	83.6	117.0	143.3	124.2	86.0
15971.3	75°	7688.4	501.4	95.5	74.0	54.9	50.1	86.0	107.4	86.0	52.5
7086.7	77.5°	2941.7	210.1	52.5	33.4	28.7	23.9	47.8	64.5	35.8	11.9
1372.9	80°	565.9	88.3	26.3	16.7	14.3	9.6	7.2	4.8	0.0	0.0
243.5	82.5°	97.9	28.7	9.6	4.8	0.0	0.0	0.0	0.0	0.0	0.0
47.8	85°	33.4	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16.7	87.5°	11.9	0.0	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>
4434.0
2690.9
1575.9
1282.2
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1093.6
1007.6
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852.4
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704.4
644.7
594.5
556.3
520.5
491.9
453.7
422.6
401.1
379.6
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