

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: P951710

Luminaire Tested: **GALN-SB5D-740-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951710  
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-SB5D-740-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

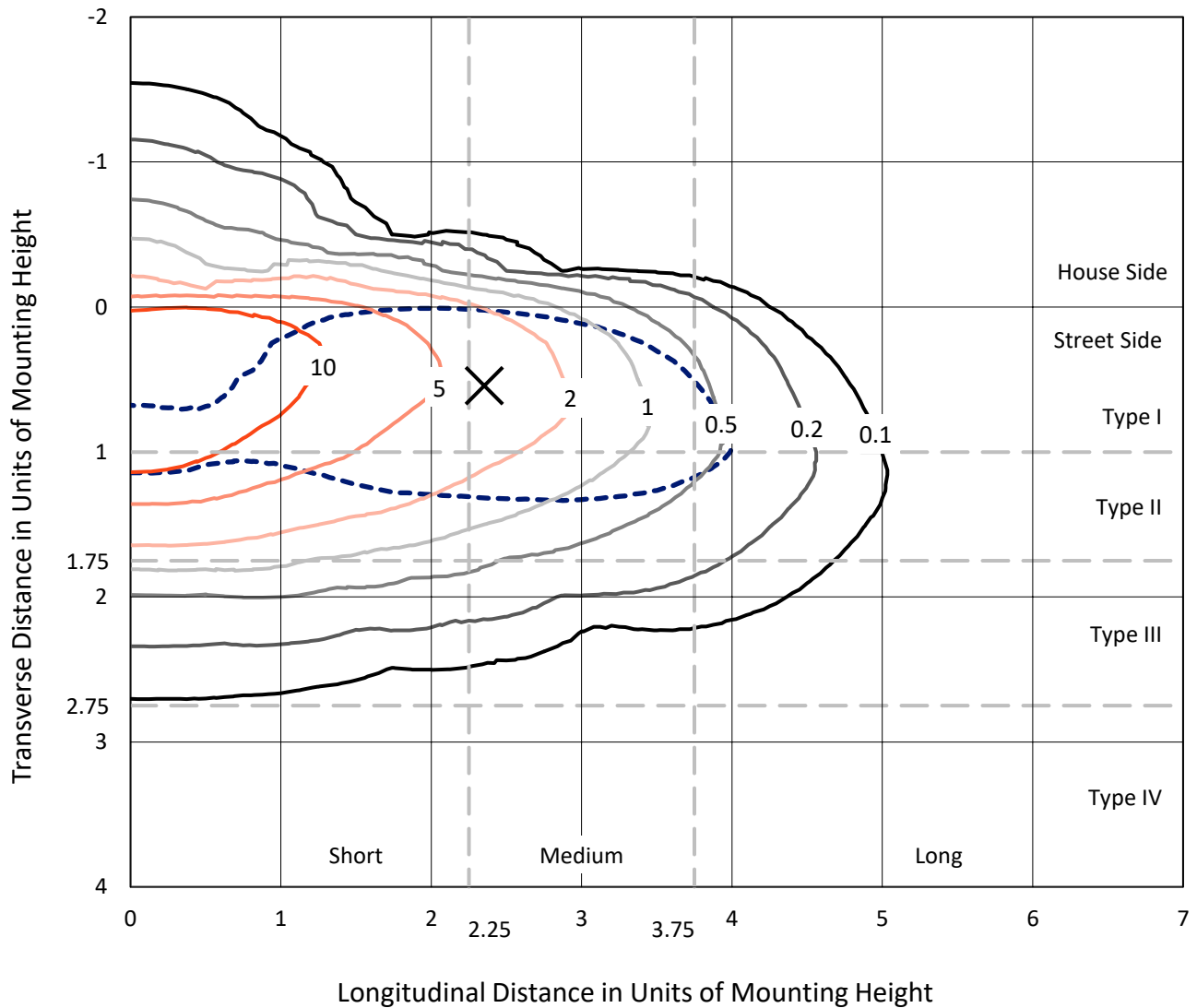
Lumens per Lamp: N/A  
Luminaire Lumens: 46045 lumens  
Efficiency: N/A  
Efficacy: 126.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

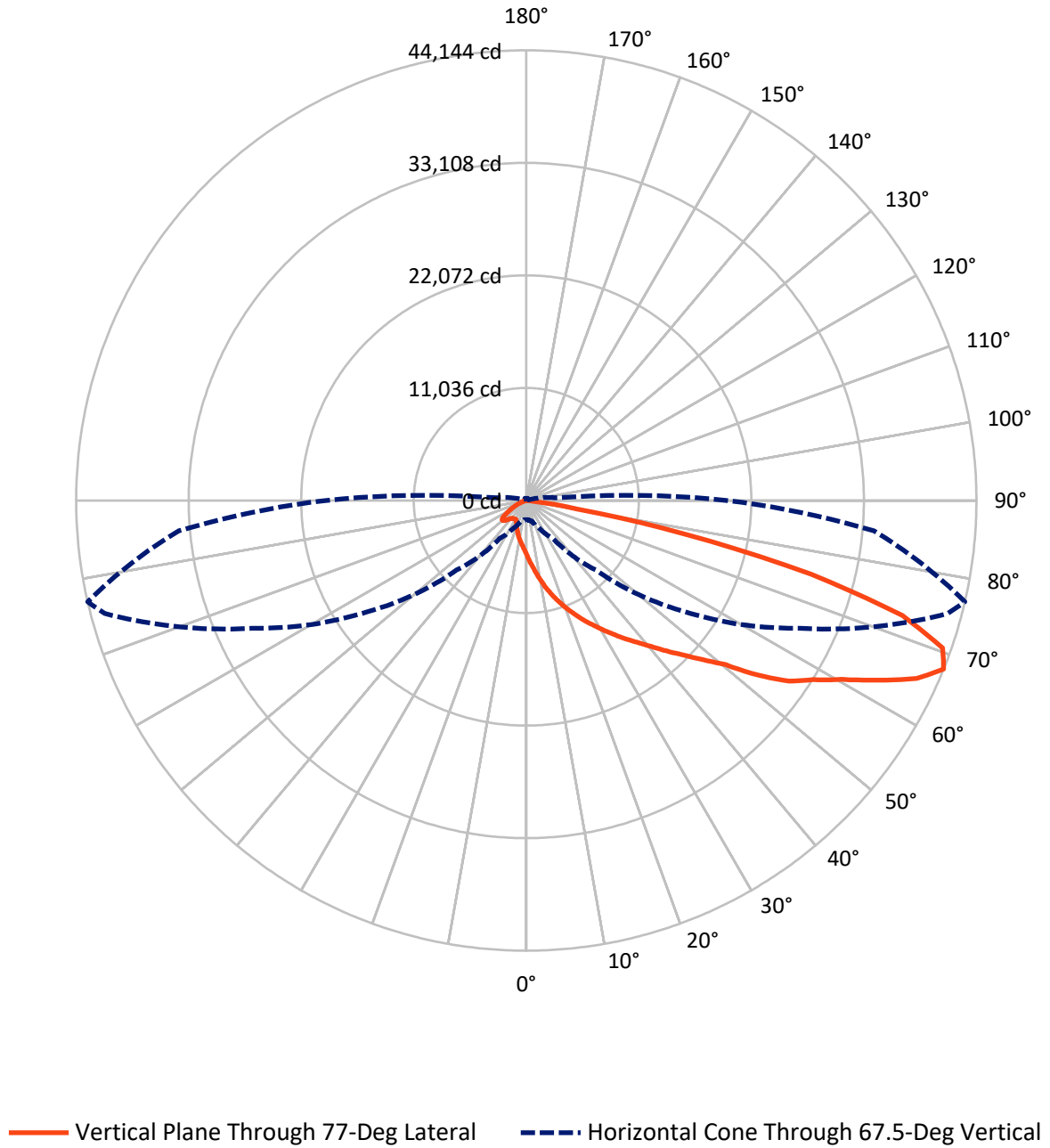
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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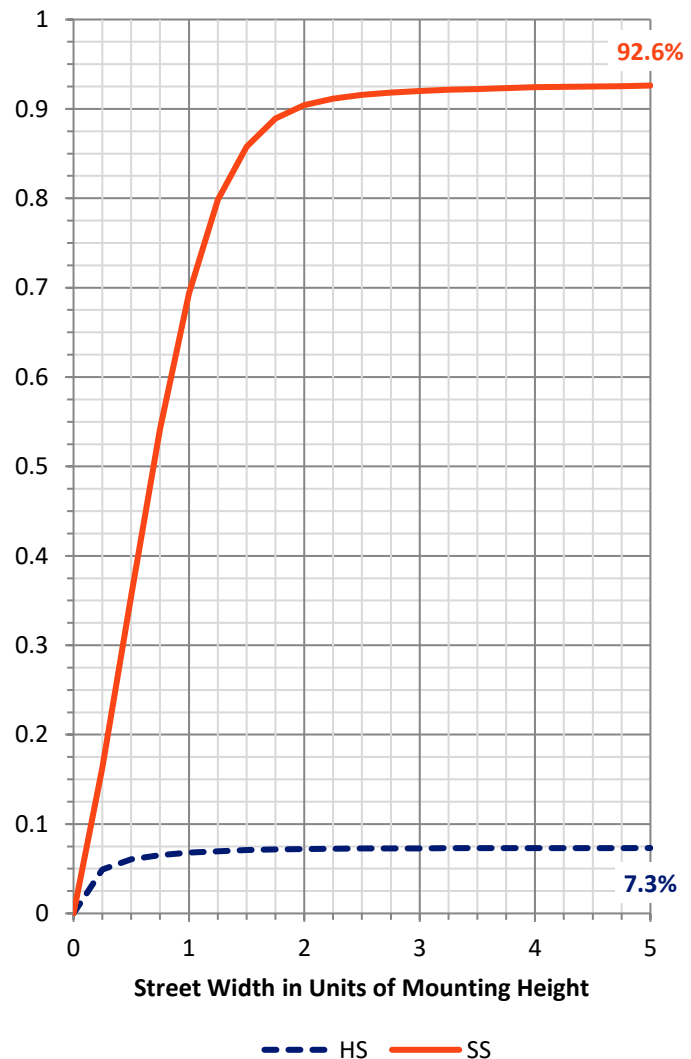
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3387.5	0.0	3387.5
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	42657.4	0.0	42657.4
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	46045.0	0.0	46045.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	541.9	1.2
10°-20°	1897.8	4.1
20°-30°	3662.2	8.0
30°-40°	6357.9	13.8
40°-50°	9231.3	20.0
50°-60°	10600.9	23.0
60°-70°	9203.6	20.0
70°-80°	4335.0	9.4
80°-90°	214.4	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°	46045.0	100.0
0°-180°	46045.0	100.0

**Coefficient of Utilization**



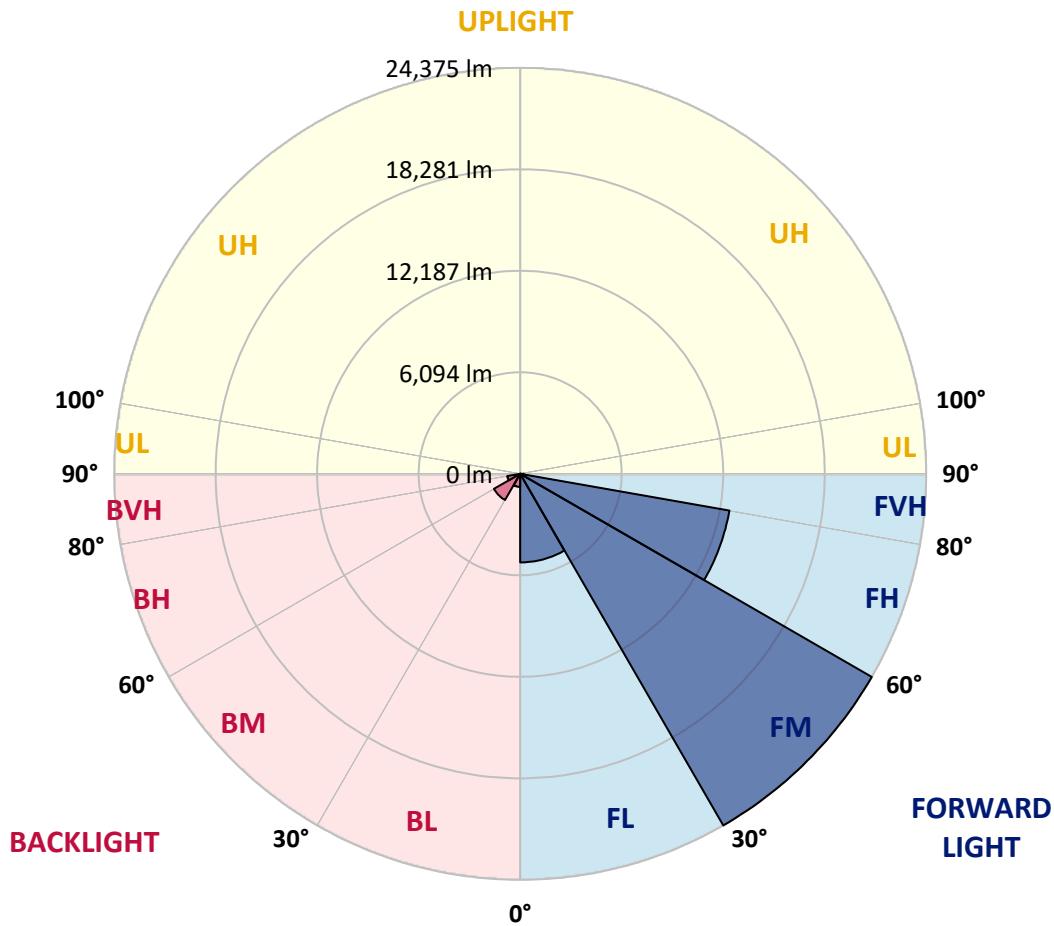
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5317.7	11.5			
FM (30°-60°)	24375.0	52.9			
FH (60°-80°)	12754.3	27.7			G5
FVH (80°-90°)	210.4	0.5			G2/225
BL (0°-30°)	784.3	1.7	B2/1000		
BM (30°-60°)	1815.1	3.9	B2/2500		
BH (60°-80°)	784.2	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.9	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-G5**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5309.7	5309.7	5309.7	5309.7	5309.7	5309.7	5309.7	5309.7	5309.7	5309.7
2.5°	7351.2	7396.9	7331.2	7205.4	7016.6	6893.7	6593.5	6310.4	5995.9	5895.8
5°	8961.0	9001.0	8926.6	8789.4	8537.8	8297.6	7903.0	7311.2	6696.4	6499.1
7.5°	10153.3	10176.1	10147.6	10021.7	9781.6	9509.9	9069.6	8369.1	7457.0	7239.7
10°	11011.1	11085.4	11076.8	11028.2	10868.1	10647.9	10179.0	9381.3	8309.0	8028.8
12.5°	11580.0	11663.0	11711.6	11820.2	11811.6	11671.5	11259.8	10416.3	9158.2	8829.4
15°	11745.9	11834.5	12020.4	12272.0	12495.0	12566.5	12277.7	11431.4	10093.2	9672.9
17.5°	11651.5	11788.8	12011.8	12409.2	12898.2	13221.3	13189.8	12412.1	10942.4	10462.1
20°	11860.3	11991.8	12166.2	12500.7	13069.7	13655.9	13890.3	13349.9	11785.9	11282.7
22.5°	13015.4	12992.5	13009.7	13064.0	13404.3	13984.7	14467.9	14202.0	12620.8	12106.2
25°	14845.3	14742.4	14568.0	14273.5	14187.7	14467.9	14971.1	14956.8	13501.5	12949.6
27.5°	16944.0	16926.9	16518.0	15808.9	15408.6	15300.0	15540.1	15691.7	14373.6	13784.5
30°	18954.1	18999.9	18448.0	17658.9	16924.0	16498.0	16280.7	16389.3	15259.9	14685.2
32.5°	20704.0	20752.6	20152.1	19228.6	18319.3	17804.7	17347.2	17078.4	16226.4	15600.2
35°	22182.2	22230.8	21541.7	20521.0	19551.7	19085.6	18568.1	17833.3	17198.5	16615.2
37.5°	23503.2	23488.9	22565.4	21536.0	20583.9	20215.0	19943.4	18762.5	18199.3	17636.0
40°	24283.8	24343.8	23554.7	22419.5	21496.0	21227.2	21210.1	19914.8	19354.4	18808.3
42.5°	24512.5	24618.3	24046.5	23114.3	22276.6	21984.9	22433.8	21161.5	20698.3	20166.4
45°	24100.8	24203.7	23943.5	23297.3	22808.4	22619.7	23486.0	22453.9	22133.6	21607.5
47.5°	22899.9	23028.6	23091.5	22954.2	22948.5	23140.1	24429.6	23814.9	23837.7	23300.2
50°	20575.3	20792.6	21370.2	21856.3	22608.3	23551.8	25347.4	25290.2	25759.2	25296.0
52.5°	16349.3	16658.1	18648.2	19977.7	21667.6	23474.6	26356.8	27657.7	29130.2	28452.6
55°	13138.3	13138.3	14756.7	17244.3	19831.9	22965.7	26797.1	29196.0	31426.2	31266.1
57.5°	10710.8	10839.5	11871.7	14070.5	17175.6	21753.3	27068.7	30162.4	33276.2	33159.0
60°	6610.6	6888.0	8838.0	11008.2	14153.4	19594.6	26897.2	31140.3	35520.7	35615.1
62.5°	3722.8	3825.7	4694.9	7920.2	11005.3	16692.4	25584.8	31686.4	38391.4	38791.7
65°	2570.5	2622.0	2956.5	4929.4	7628.5	13289.9	23020.0	31346.2	41267.9	42077.0
67.5°	1867.1	1892.8	2101.6	3010.8	4526.2	9635.7	18999.9	29630.6	42791.8	44144.3
70°	1435.4	1452.5	1604.1	1978.6	2673.4	5947.3	13798.8	26219.5	41688.2	43303.7
72.5°	1166.6	1183.7	1301.0	1463.9	1772.7	3516.9	8363.4	21293.0	36816.0	38560.1
75°	983.6	1006.5	1112.3	1218.0	1389.6	2258.8	3922.9	14828.2	27686.3	28830.0
77.5°	546.1	503.2	903.5	1009.3	1172.3	1429.6	1835.7	8726.5	15505.8	15823.2
80°	340.3	351.7	717.7	812.0	900.7	720.5	840.6	3359.6	5375.4	5106.7
82.5°	20.0	45.7	551.8	586.2	617.6	308.8	317.4	1140.8	1295.2	1189.5
85°	0.0	0.0	251.6	203.0	214.4	88.6	91.5	265.9	174.4	188.7
87.5°	0.0	0.0	0.0	5.7	0.0	8.6	17.2	22.9	8.6	11.4
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°
5309.7	0°	5309.7	5309.7	5309.7	5309.7	5309.7	5309.7	5309.7	5309.7	5309.7	5309.7
5581.3	2.5°	5381.1	5181.0	4775.0	4377.5	4054.4	3754.2	3539.8	3336.8	3233.8	3228.1
5941.6	5°	5544.1	5123.8	4311.8	3594.1	3016.5	2553.3	2253.1	2038.7	1930.0	1892.8
6384.8	7.5°	5772.9	5141.0	3905.8	2907.9	2227.4	1829.9	1658.4	1589.8	1566.9	1541.1
6885.1	10°	6061.7	5181.0	3542.6	2341.7	1755.6	1555.4	1486.8	1458.2	1441.1	1423.9
7448.4	12.5°	6384.8	5218.2	3182.4	1944.3	1544.0	1441.1	1392.5	1358.2	1335.3	1315.3
8026.0	15°	6699.3	5241.0	2807.8	1667.0	1435.4	1352.4	1301.0	1263.8	1232.3	1209.5
8592.1	17.5°	7010.9	5272.5	2456.1	1501.1	1346.7	1263.8	1212.3	1166.6	1140.8	1115.1
9186.8	20°	7356.9	5266.8	2124.4	1383.9	1258.1	1175.2	1120.8	1077.9	1052.2	1023.6
9815.9	22.5°	7677.1	5238.2	1832.8	1283.8	1166.6	1086.5	1026.5	983.6	957.9	935.0
10459.2	25°	8046.0	5215.3	1589.8	1192.3	1080.8	1000.7	935.0	895.0	866.4	846.3
11105.4	27.5°	8400.5	5181.0	1412.5	1109.4	997.9	920.7	857.8	812.0	786.3	772.0
11771.6	30°	8749.4	5172.4	1346.7	1029.3	923.5	846.3	783.4	740.6	720.5	714.8
12503.6	32.5°	9169.7	5195.3	1375.3	1000.7	854.9	777.7	717.7	686.2	666.2	666.2
13318.5	35°	9618.6	5189.6	1418.2	1026.5	809.2	709.1	663.4	643.3	623.3	623.3
14222.0	37.5°	10181.9	5198.2	1452.5	1069.4	792.0	651.9	626.2	600.4	589.0	589.0
15211.3	40°	11022.5	5481.2	1435.4	1106.5	786.3	611.9	560.4	551.8	543.3	543.3
16329.3	42.5°	12051.8	6096.0	1458.2	1109.4	783.4	583.3	514.7	531.8	511.8	509.0
17590.2	45°	13178.4	6767.9	1604.1	1049.4	780.6	569.0	491.8	511.8	480.4	480.4
19051.3	47.5°	14296.4	7434.1	1752.7	963.6	772.0	566.1	471.8	460.3	451.8	454.6
20955.6	50°	15837.5	7977.4	1809.9	846.3	752.0	560.4	434.6	437.5	431.7	437.5
23640.4	52.5°	17515.9	8091.7	1741.3	714.8	694.8	543.3	408.9	420.3	417.5	423.2
25530.4	55°	18562.4	7968.8	1438.2	594.7	606.2	474.6	383.1	406.0	406.0	406.0
27377.5	57.5°	19643.2	7445.5	1020.8	483.2	503.2	388.9	360.3	391.7	388.9	386.0
29602.0	60°	20420.9	6599.2	671.9	397.4	400.3	320.2	334.5	368.8	366.0	351.7
31895.2	62.5°	21001.3	5664.2	431.7	337.4	305.9	288.8	305.9	334.5	323.1	291.6
33839.5	65°	20935.6	4369.0	331.7	288.8	251.6	251.6	265.9	291.6	257.3	205.9
34211.2	67.5°	19714.7	2956.5	274.5	243.0	211.6	208.7	220.2	243.0	220.2	174.4
32306.9	70°	17533.0	1932.9	220.2	188.7	168.7	154.4	177.3	208.7	185.9	140.1
27503.3	72.5°	14230.6	1178.0	165.8	137.2	122.9	100.1	140.1	171.6	148.7	102.9
19125.7	75°	9206.9	600.4	114.4	88.6	65.8	60.0	102.9	128.7	102.9	62.9
8486.3	77.5°	3522.6	251.6	62.9	40.0	34.3	28.6	57.2	77.2	42.9	14.3
1644.1	80°	677.6	105.8	31.5	20.0	17.2	11.4	8.6	5.7	0.0	0.0
291.6	82.5°	117.2	34.3	11.4	5.7	0.0	0.0	0.0	0.0	0.0	0.0
57.2	85°	40.0	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.0	87.5°	14.3	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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180°
5309.7
3222.4
1887.1
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1418.2
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1206.6
1112.3
1020.8
932.1
843.5
772.0
712.0
666.2
623.3
589.0
543.3
506.1
480.4
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