

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: P951836

Luminaire Tested: **GALN-SB5D-840-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951836
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-840-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 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: 41630 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

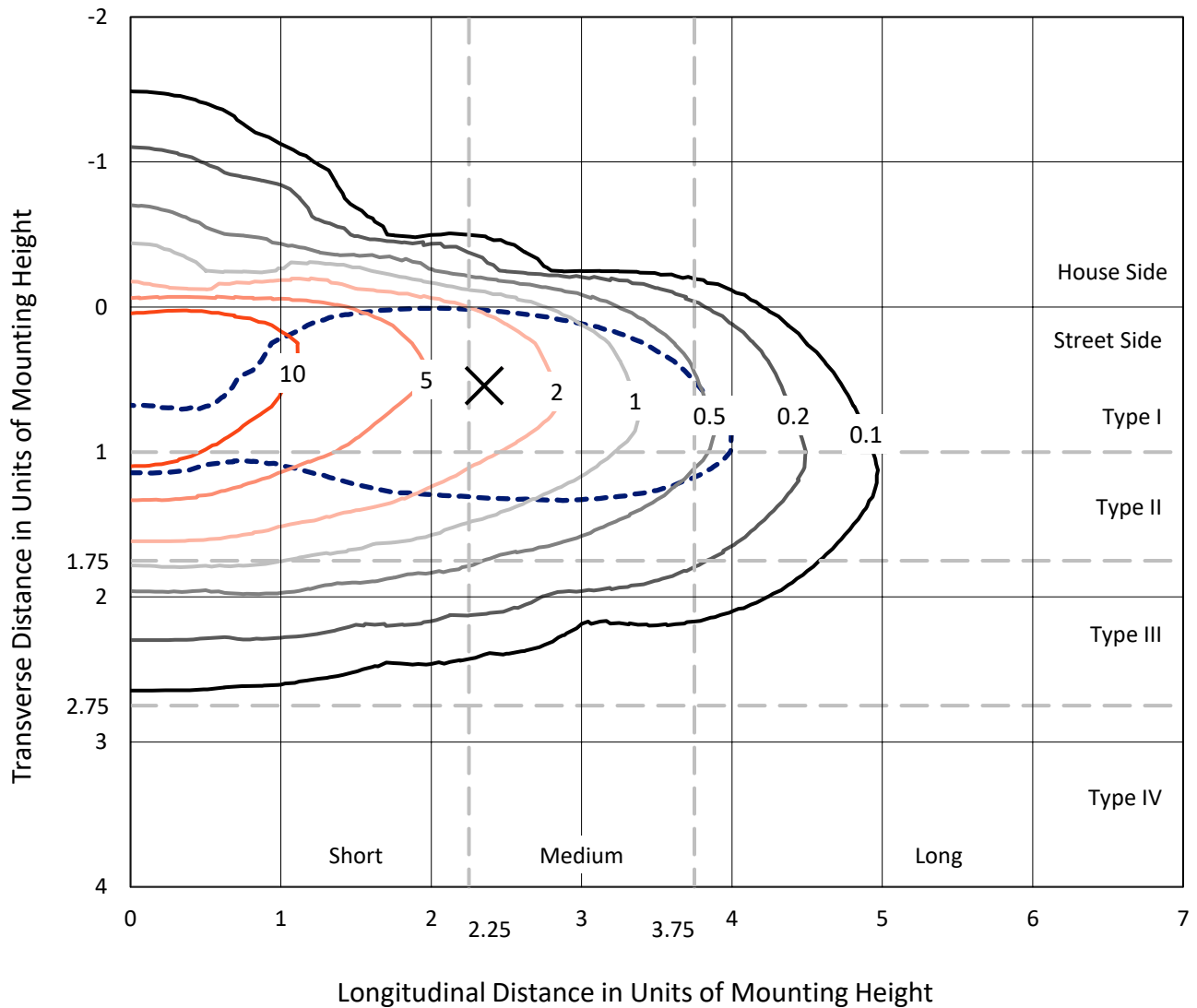
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

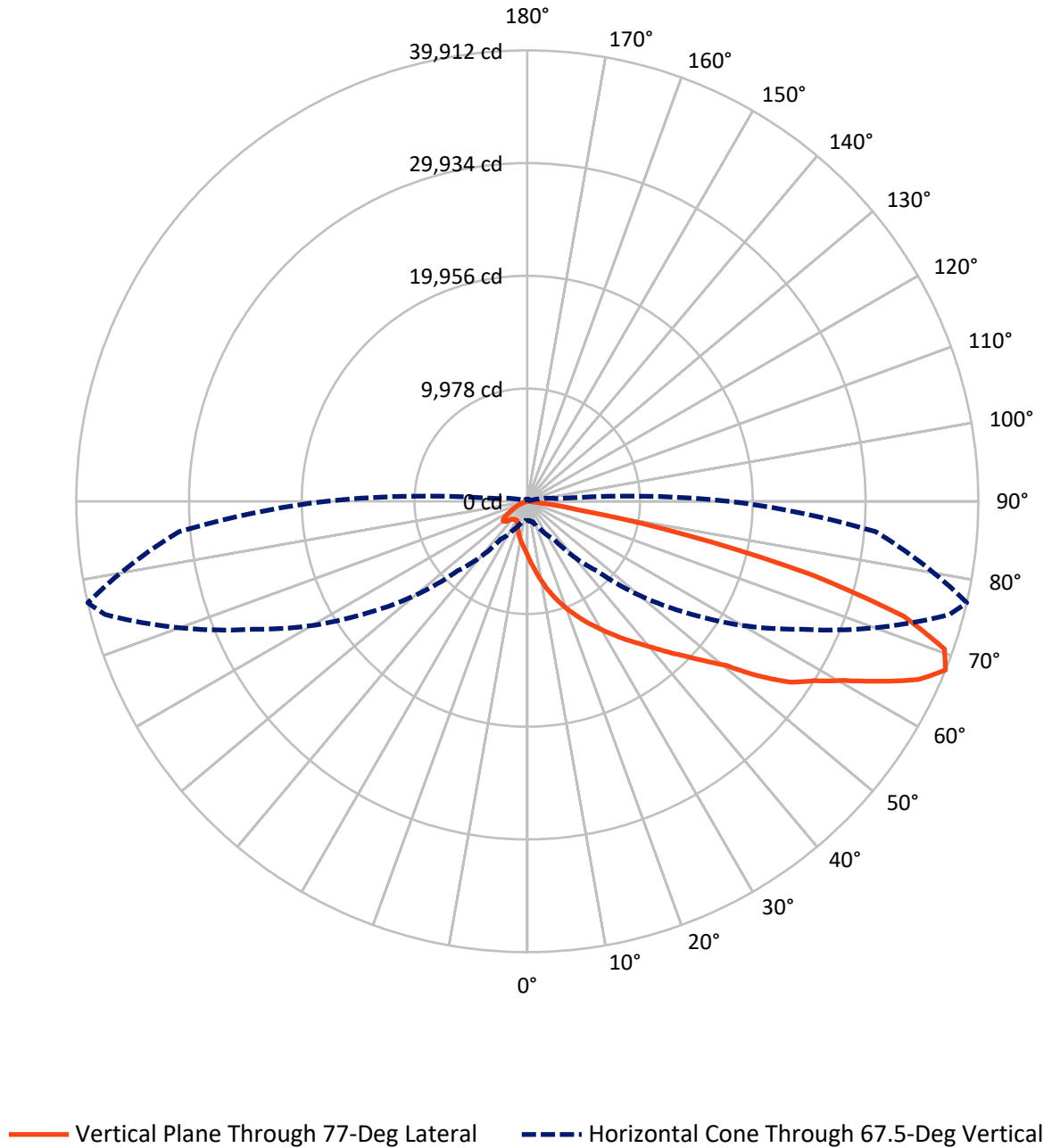
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 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	3062.7	0.0	3062.7
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	38567.3	0.0	38567.3
	% Fixture	92.6	0.0	92.6
Total	Lumens	41630.0	0.0	41630.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.0	1.2
10°-20°	1715.8	4.1
20°-30°	3311.1	8.0
30°-40°	5748.2	13.8
40°-50°	8346.1	20.0
50°-60°	9584.5	23.0
60°-70°	8321.1	20.0
70°-80°	3919.3	9.4
80°-90°	193.8	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°	41630.0	100.0
0°-180°	41630.0	100.0

Coefficient of Utilization



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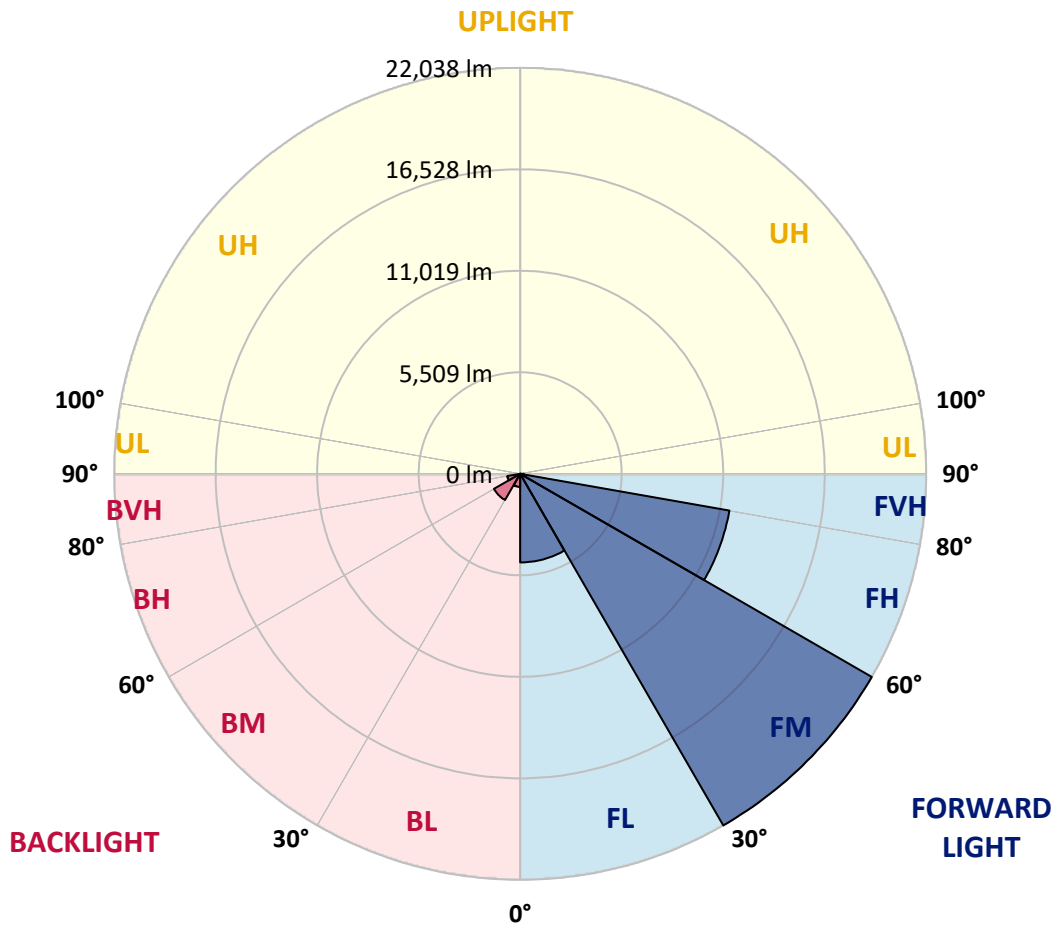
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4807.8	11.5			
FM (30°-60°)	22037.8	52.9			
FH (60°-80°)	11531.4	27.7			G4/12000
FVH (80°-90°)	190.3	0.5			G2/225
BL (0°-30°)	709.1	1.7	B2/1000		
BM (30°-60°)	1641.1	3.9	B2/2500		
BH (60°-80°)	709.1	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.6	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4800.6	4800.6	4800.6	4800.6	4800.6	4800.6	4800.6	4800.6	4800.6	4800.6
2.5°	6646.3	6687.7	6628.2	6514.5	6343.9	6232.7	5961.3	5705.3	5421.0	5330.5
5°	8101.7	8137.9	8070.7	7946.6	7719.1	7502.0	7145.2	6610.1	6054.3	5876.0
7.5°	9179.7	9200.4	9174.6	9060.8	8843.7	8598.1	8200.0	7566.6	6742.0	6545.5
10°	9955.3	10022.5	10014.7	9970.8	9826.0	9627.0	9203.0	8481.7	7512.3	7259.0
12.5°	10469.7	10544.7	10588.6	10686.8	10679.1	10552.4	10180.2	9417.6	8280.1	7982.8
15°	10619.6	10699.8	10867.8	11095.3	11296.9	11361.6	11100.5	10335.3	9125.4	8745.4
17.5°	10534.3	10658.4	10860.1	11219.4	11661.4	11953.6	11925.1	11222.0	9893.2	9458.9
20°	10723.0	10842.0	10999.6	11302.1	11816.5	12346.5	12558.5	12069.9	10655.8	10200.8
22.5°	11767.4	11746.7	11762.3	11811.4	12119.0	12643.8	13080.7	12840.2	11410.7	10945.4
25°	13421.9	13328.8	13171.1	12904.9	12827.3	13080.7	13535.6	13522.7	12206.9	11708.0
27.5°	15319.4	15303.9	14934.2	14293.1	13931.2	13832.9	14050.1	14187.1	12995.4	12462.8
30°	17136.7	17178.1	16679.1	15965.6	15301.3	14916.1	14719.6	14817.9	13796.7	13277.1
32.5°	18718.8	18762.7	18219.9	17384.9	16562.8	16097.5	15683.9	15440.9	14670.5	14104.4
35°	20055.3	20099.2	19476.2	18553.3	17677.0	17255.6	16787.7	16123.3	15549.4	15022.1
37.5°	21249.6	21236.7	20401.7	19471.1	18610.2	18276.7	18031.1	16963.5	16454.2	15945.0
40°	21955.3	22009.6	21296.1	20269.9	19434.9	19191.9	19176.4	18005.3	17498.6	17004.9
42.5°	22162.2	22257.8	21740.8	20898.0	20140.6	19876.9	20282.8	19132.4	18713.6	18232.8
45°	21789.9	21883.0	21647.7	21063.5	20621.4	20450.8	21234.1	20300.9	20011.3	19535.7
47.5°	20704.2	20820.5	20877.4	20753.3	20748.1	20921.3	22087.2	21531.4	21552.1	21066.1
50°	18602.5	18798.9	19321.1	19760.6	20440.5	21293.6	22917.0	22865.3	23289.3	22870.5
52.5°	14781.7	15060.9	16860.1	18062.2	19590.0	21223.8	23829.6	25005.8	26337.1	25724.4
55°	11878.6	11878.6	13341.8	15590.8	17930.3	20763.6	24227.7	26396.6	28413.0	28268.2
57.5°	9683.8	9800.2	10733.4	12721.3	15528.8	19667.5	24473.2	27270.3	30085.5	29979.5
60°	5976.8	6227.5	7990.6	9952.7	12796.3	17715.8	24318.1	28154.4	32114.8	32200.1
62.5°	3365.8	3458.9	4244.8	7160.8	9950.1	15091.9	23131.6	28648.2	34710.3	35072.2
65°	2324.0	2370.5	2673.0	4456.7	6897.1	12015.6	20812.7	28340.6	37310.9	38042.5
67.5°	1688.1	1711.3	1900.1	2722.1	4092.2	8711.8	17178.1	26789.5	38688.8	39911.5
70°	1297.7	1313.2	1450.2	1788.9	2417.1	5377.0	12475.7	23705.5	37690.9	39151.5
72.5°	1054.7	1070.2	1176.2	1323.6	1602.8	3179.7	7561.4	19251.3	33285.9	34862.8
75°	889.3	910.0	1005.6	1101.3	1256.4	2042.2	3546.8	13406.4	25031.6	26065.7
77.5°	493.8	455.0	816.9	912.5	1059.9	1292.6	1659.6	7889.8	14019.1	14306.0
80°	307.6	318.0	648.9	734.2	814.3	651.4	760.0	3037.5	4860.0	4617.0
82.5°	18.1	41.4	498.9	529.9	558.4	279.2	286.9	1031.5	1171.1	1075.4
85°	0.0	0.0	227.5	183.5	193.9	80.1	82.7	240.4	157.7	170.6
87.5°	0.0	0.0	0.0	5.2	0.0	7.8	15.5	20.7	7.8	10.3
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°
4800.6	0°	4800.6	4800.6	4800.6	4800.6	4800.6	4800.6	4800.6	4800.6	4800.6	4800.6
5046.1	2.5°	4865.2	4684.2	4317.1	3957.8	3665.7	3394.3	3200.4	3016.8	2923.8	2918.6
5371.9	5°	5012.5	4632.5	3898.3	3249.5	2727.3	2308.5	2037.1	1843.2	1744.9	1711.3
5772.6	7.5°	5219.3	4648.0	3531.3	2629.1	2013.8	1654.5	1499.4	1437.3	1416.6	1393.4
6224.9	10°	5480.4	4684.2	3203.0	2117.2	1587.3	1406.3	1344.3	1318.4	1302.9	1287.4
6734.2	12.5°	5772.6	4717.8	2877.2	1757.9	1396.0	1302.9	1258.9	1227.9	1207.2	1189.2
7256.4	15°	6056.9	4738.5	2538.6	1507.1	1297.7	1222.8	1176.2	1142.6	1114.2	1093.5
7768.3	17.5°	6338.7	4766.9	2220.6	1357.2	1217.6	1142.6	1096.1	1054.7	1031.5	1008.2
8306.0	20°	6651.5	4761.8	1920.7	1251.2	1137.4	1062.5	1013.4	974.6	951.3	925.5
8874.7	22.5°	6941.0	4735.9	1657.1	1160.7	1054.7	982.3	928.1	889.3	866.0	845.3
9456.3	25°	7274.5	4715.2	1437.3	1078.0	977.2	904.8	845.3	809.1	783.3	765.2
10040.6	27.5°	7595.1	4684.2	1277.0	1003.0	902.2	832.4	775.5	734.2	710.9	698.0
10642.9	30°	7910.4	4676.5	1217.6	930.6	835.0	765.2	708.3	669.5	651.4	646.3
11304.7	32.5°	8290.5	4697.1	1243.4	904.8	772.9	703.2	648.9	620.4	602.3	602.3
12041.4	35°	8696.3	4692.0	1282.2	928.1	731.6	641.1	599.7	581.6	563.6	563.6
12858.3	37.5°	9205.6	4699.7	1313.2	966.8	716.1	589.4	566.1	542.9	532.5	532.5
13752.8	40°	9965.6	4955.7	1297.7	1000.4	710.9	553.2	506.7	498.9	491.2	491.2
14763.6	42.5°	10896.2	5511.5	1318.4	1003.0	708.3	527.4	465.3	480.8	462.7	460.1
15903.6	45°	11914.8	6119.0	1450.2	948.7	705.7	514.4	444.6	462.7	434.3	434.3
17224.6	47.5°	12925.6	6721.3	1584.7	871.2	698.0	511.9	426.5	416.2	408.4	411.0
18946.3	50°	14318.9	7212.5	1636.4	765.2	679.9	506.7	392.9	395.5	390.4	395.5
21373.7	52.5°	15836.4	7315.9	1574.3	646.3	628.2	491.2	369.7	380.0	377.4	382.6
23082.5	55°	16782.5	7204.7	1300.3	537.7	548.0	429.1	346.4	367.1	367.1	367.1
24752.4	57.5°	17759.7	6731.6	922.9	436.9	455.0	351.6	325.7	354.2	351.6	349.0
26763.7	60°	18462.9	5966.4	607.5	359.3	361.9	289.5	302.5	333.5	330.9	318.0
28836.9	62.5°	18987.6	5121.1	390.4	305.0	276.6	261.1	276.6	302.5	292.1	263.7
30594.8	65°	18928.2	3950.0	299.9	261.1	227.5	227.5	240.4	263.7	232.7	186.1
30930.9	67.5°	17824.3	2673.0	248.2	219.7	191.3	188.7	199.1	219.7	199.1	157.7
29209.2	70°	15851.9	1747.5	199.1	170.6	152.5	139.6	160.3	188.7	168.0	126.7
24866.2	72.5°	12866.1	1065.1	149.9	124.1	111.2	90.5	126.7	155.1	134.4	93.1
17291.8	75°	8324.1	542.9	103.4	80.1	59.5	54.3	93.1	116.3	93.1	56.9
7672.6	77.5°	3184.9	227.5	56.9	36.2	31.0	25.9	51.7	69.8	38.8	12.9
1486.4	80°	612.7	95.6	28.4	18.1	15.5	10.3	7.8	5.2	0.0	0.0
263.7	82.5°	106.0	31.0	10.3	5.2	0.0	0.0	0.0	0.0	0.0	0.0
51.7	85°	36.2	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18.1	87.5°	12.9	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>
4800.6
2913.4
1706.2
1388.2
1282.2
1184.0
1090.9
1005.6
922.9
842.7
762.6
698.0
643.7
602.3
563.6
532.5
491.2
457.6
434.3
411.0
395.5
382.6
367.1
349.0
318.0
258.5
181.0
152.5
121.5
87.9
49.1
10.3
0.0
0.0
0.0
0.0
0.0

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