

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: P957214

Luminaire Tested: **GALN-SB9C-850-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957214
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-850-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49865 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

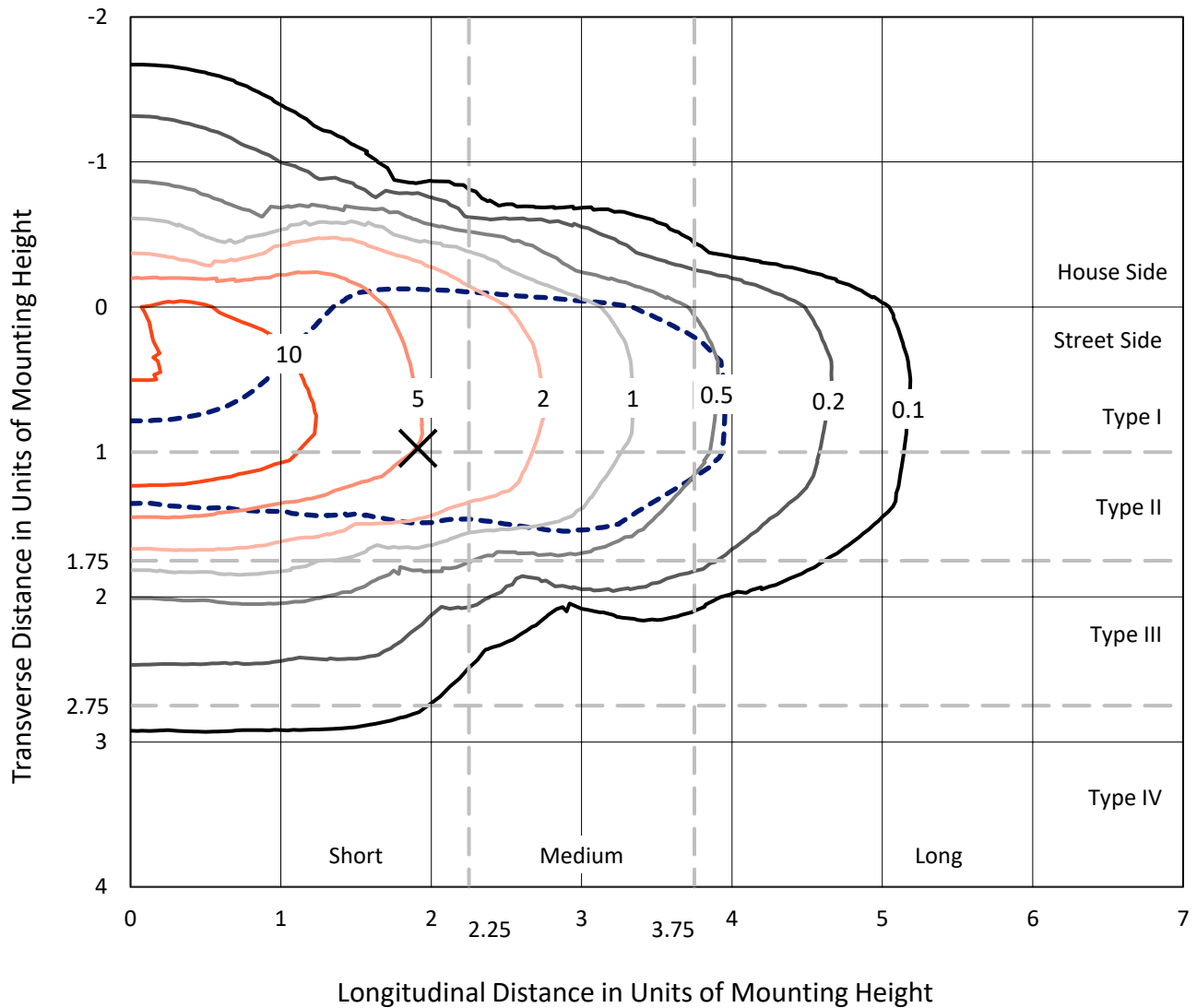
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

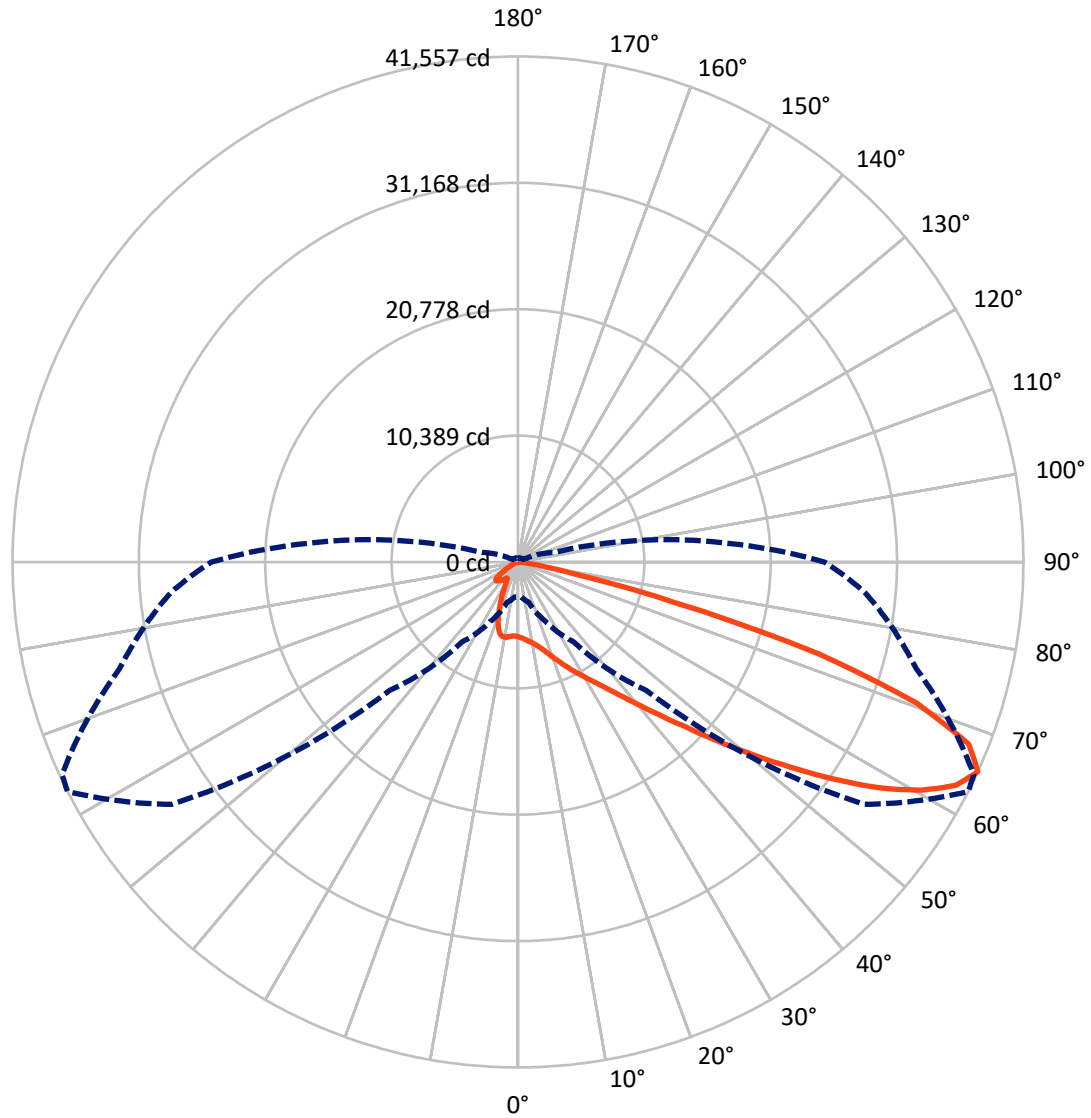
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7329.8	0.0	7329.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	42535.2	0.0	42535.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	49865.0	0.0	49865.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	579.8	1.2
10°-20°	1608.9	3.2
20°-30°	2801.5	5.6
30°-40°	5049.3	10.1
40°-50°	10014.4	20.1
50°-60°	13641.3	27.4
60°-70°	10888.4	21.8
70°-80°	4927.2	9.9
80°-90°	354.2	0.7
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°	49865.0	100.0
0°-180°	49865.0	100.0

Coefficient of Utilization



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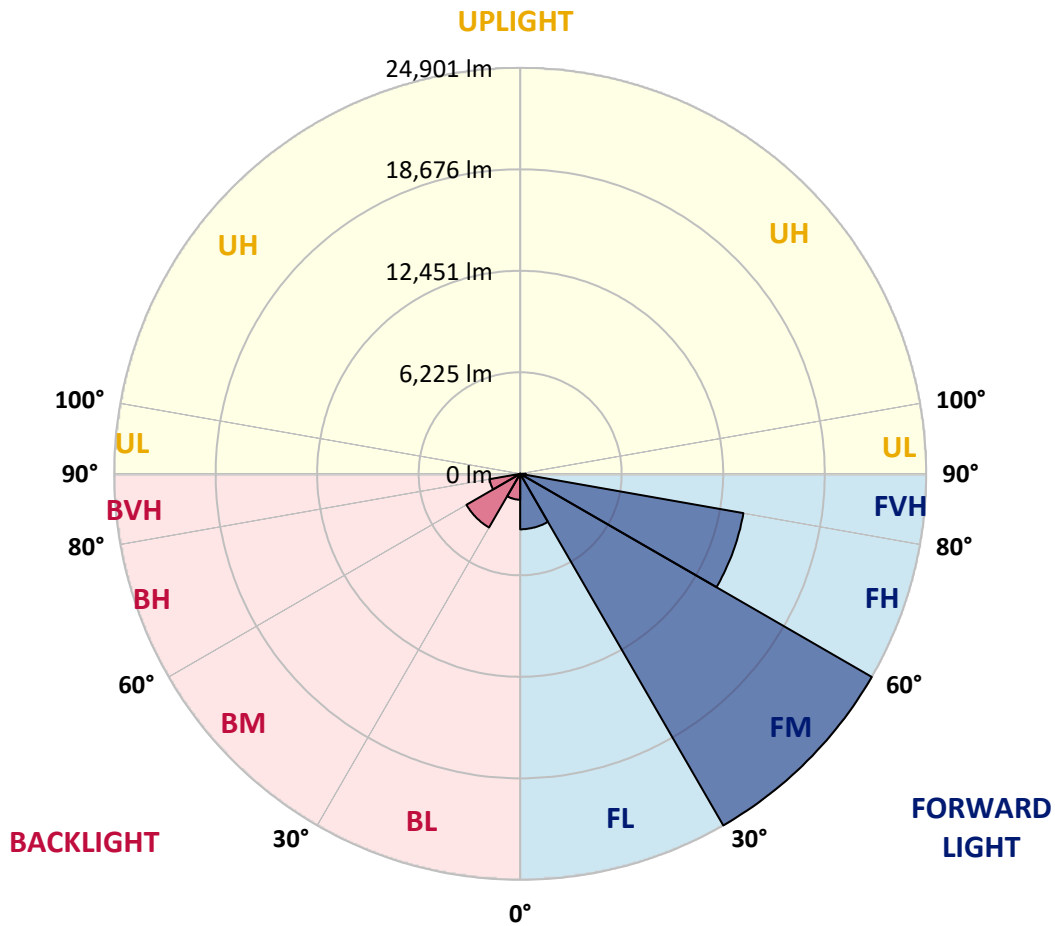
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3403.9	6.8			
FM (30°-60°)	24901.3	49.9			
FH (60°-80°)	13902.1	27.9			G5
FVH (80°-90°)	327.9	0.7			G3/500
BL (0°-30°)	1586.3	3.2	B3/2500		
BM (30°-60°)	3803.7	7.6	B3/5000		
BH (60°-80°)	1913.5	3.8	B3/2500		G3/2500
BVH (80°-90°)	26.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	6154.3	6154.3	6154.3	6154.3	6154.3	6154.3	6154.3	6154.3	6154.3	6154.3
2.5°	6298.4	6281.2	6305.2	6294.9	6288.1	6274.4	6267.5	6260.6	6246.9	6236.6
5°	6315.5	6305.2	6329.2	6349.8	6370.4	6391.0	6401.3	6415.0	6401.3	6373.8
7.5°	6171.4	6164.6	6216.0	6277.8	6370.4	6449.3	6535.1	6583.1	6586.5	6576.2
10°	6161.1	6144.0	6195.4	6270.9	6391.0	6531.6	6682.6	6785.5	6799.2	6843.8
12.5°	6322.4	6305.2	6377.3	6459.6	6583.1	6730.6	6915.8	7059.9	7080.5	7142.3
15°	6593.4	6569.4	6651.7	6758.0	6915.8	7083.9	7279.5	7409.8	7427.0	7502.5
17.5°	6909.0	6885.0	6981.0	7094.2	7265.8	7495.6	7722.0	7866.1	7886.7	7934.7
20°	7313.8	7282.9	7358.4	7461.3	7643.1	7917.6	8188.6	8394.4	8391.0	8391.0
22.5°	7783.8	7735.7	7800.9	7883.2	8054.8	8387.5	8747.7	8991.3	8991.3	8895.2
25°	8288.0	8240.0	8312.1	8387.5	8538.5	8915.8	9337.8	9639.7	9653.4	9488.7
27.5°	8919.3	8857.5	8912.4	9001.6	9090.8	9475.0	9975.8	10325.7	10332.6	10078.8
30°	10133.6	9958.7	9787.2	9691.1	9732.3	10113.1	10648.2	11035.9	11070.2	10720.3
32.5°	12356.6	12322.3	11718.5	10929.5	10517.9	10799.2	11399.5	11866.0	11886.6	11437.2
35°	15811.1	15769.9	14799.1	13296.5	11955.2	11718.5	12312.0	12864.3	12850.6	12342.9
37.5°	19934.5	19896.8	18617.2	16607.0	14435.5	13107.9	13488.7	14068.4	14154.2	13488.7
40°	23457.6	23317.0	22507.4	20569.2	17728.7	15413.2	15162.7	15546.9	15636.1	14847.1
42.5°	26126.5	26006.5	25594.8	24383.9	21714.9	18823.1	17135.3	17282.8	17382.2	16435.4
45°	27509.0	27481.6	27646.2	27533.0	25776.6	23008.2	19955.1	19341.1	19378.8	18195.3
47.5°	27704.6	27690.8	28442.1	29505.6	29268.9	27728.6	23574.3	21907.1	21773.3	20181.5
50°	26551.9	26524.5	27965.3	29958.4	31601.6	31694.2	27684.0	24798.9	24503.9	22236.4
52.5°	22871.0	22864.2	25231.2	28548.5	32421.5	35165.9	31745.7	27975.6	27481.6	24411.3
55°	17598.4	17725.3	20438.8	24359.8	30925.8	36836.5	35392.3	31502.1	30744.0	26600.0
57.5°	12466.4	12651.6	15334.3	18826.5	26287.8	35848.5	37858.8	35035.5	34219.0	28781.7
60°	6696.3	6861.0	9547.0	13715.1	19557.2	32164.2	39158.9	38102.4	37330.5	30853.7
62.5°	3989.6	4044.5	5156.0	8854.1	13227.9	24572.5	38606.6	40438.5	39803.9	32593.0
65°	2864.5	2874.7	3433.9	5406.4	8030.8	14929.5	34733.6	41556.8	41361.3	33903.4
67.5°	2411.6	2404.8	2638.0	3591.7	5471.6	7478.4	26620.5	39975.4	40805.6	34733.6
70°	2068.6	2078.9	2353.3	2631.2	4113.1	4233.2	13234.8	34805.7	36575.8	34953.2
72.5°	1540.3	1574.6	1828.4	2397.9	3104.6	2912.5	4569.4	25807.5	29008.1	32932.6
75°	1087.5	1104.6	1286.4	2017.1	2315.6	2120.0	2332.7	13341.1	17444.0	25248.3
77.5°	837.0	867.9	974.3	1409.9	2281.3	1488.8	1427.1	4617.4	7094.2	15251.9
80°	452.8	507.7	703.2	1018.9	1602.0	1053.2	706.7	1838.7	2404.8	7132.0
82.5°	233.3	260.7	490.6	734.1	912.5	919.4	349.9	765.0	991.4	2202.4
85°	92.6	113.2	329.3	404.8	470.0	452.8	157.8	308.7	356.8	610.6
87.5°	20.6	34.3	120.1	92.6	89.2	96.1	37.7	72.0	68.6	72.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6154.3	0°	6154.3	6154.3	6154.3	6154.3	6154.3	6154.3	6154.3	6154.3	6154.3	6154.3
6195.4	2.5°	6192.0	6178.3	6140.6	6099.4	6051.4	6023.9	6006.8	6003.3	5979.3	5962.2
6332.7	5°	6294.9	6281.2	6209.2	6123.4	6030.8	5958.7	5890.1	5828.4	5739.2	5722.0
6531.6	7.5°	6500.8	6463.0	6346.4	6229.8	6054.8	5845.5	5591.7	5300.1	5039.4	4960.5
6795.8	10°	6754.6	6703.2	6555.6	6349.8	5962.2	5392.7	4778.7	4209.2	3756.4	3629.4
7108.0	12.5°	7042.8	6998.2	6802.6	6421.9	5574.5	4542.0	3602.0	2895.3	2456.2	2346.4
7440.7	15°	7385.8	7320.6	7049.6	6312.1	4881.6	3451.1	2473.4	2054.9	1897.1	1876.5
7821.5	17.5°	7749.5	7643.1	7269.2	5917.6	3948.5	2452.8	1910.8	1790.7	1722.1	1701.5
8205.7	20°	8082.2	7945.0	7399.5	5320.7	2950.2	1910.8	1711.8	1632.9	1571.2	1547.1
8589.9	22.5°	8415.0	8219.4	7399.5	4507.7	2212.7	1694.7	1571.2	1499.1	1427.1	1396.2
9001.6	25°	8761.4	8500.7	7269.2	3602.0	1780.4	1554.0	1437.4	1358.5	1296.7	1259.0
9392.7	27.5°	9097.6	8737.4	6970.7	2744.4	1584.9	1430.5	1313.9	1238.4	1180.1	1152.6
9818.0	30°	9416.7	8970.7	6552.2	2082.3	1458.0	1310.4	1200.7	1135.5	1077.2	1049.7
10370.3	32.5°	9848.9	9265.7	6106.3	1708.4	1348.2	1197.2	1097.8	1036.0	984.5	964.0
11087.3	35°	10449.2	9701.4	5722.0	1677.5	1255.6	1104.6	1005.1	946.8	895.4	878.2
12013.5	37.5°	11300.0	10404.6	5519.6	1883.3	1180.1	1022.3	929.7	867.9	819.9	806.2
13190.2	40°	12349.7	11358.3	5629.4	2089.2	1128.6	950.2	861.1	799.3	758.1	741.0
14541.8	42.5°	13595.0	12535.0	6236.6	2247.0	1094.3	888.5	795.9	727.3	699.8	693.0
16075.2	45°	15025.5	13828.3	7166.3	2415.1	1039.4	830.2	730.7	679.2	658.7	655.2
17742.4	47.5°	16651.6	15248.5	8243.4	2624.3	984.5	775.3	679.2	644.9	627.8	620.9
19481.7	50°	18263.9	16679.0	9351.5	2741.0	940.0	723.8	638.1	610.6	596.9	593.5
21320.4	52.5°	19951.7	18150.7	10246.8	2631.2	902.2	682.7	603.8	583.2	569.5	566.0
23015.1	55°	21560.6	19341.1	10401.2	2233.2	826.7	641.5	566.0	555.7	538.6	538.6
24733.8	57.5°	22946.5	19938.0	9310.3	1639.8	751.3	579.8	528.3	518.0	504.3	500.9
26284.3	60°	24219.2	19766.4	7186.9	1104.6	668.9	518.0	480.3	473.4	459.7	442.5
27632.5	62.5°	24936.2	19011.7	4915.9	720.4	586.6	452.8	425.4	421.9	391.1	356.8
28630.8	65°	25207.2	17461.1	3066.9	524.9	490.6	387.6	367.1	360.2	315.6	277.9
29196.8	67.5°	24970.5	14908.9	1547.1	415.1	387.6	322.5	301.9	301.9	271.0	236.7
29162.5	70°	24023.7	11176.5	651.8	332.8	298.5	247.0	247.0	260.7	229.8	192.1
27649.7	72.5°	21968.8	7519.6	346.5	253.9	223.0	175.0	202.4	212.7	181.8	144.1
22630.9	75°	17464.6	4586.6	240.1	188.7	140.6	123.5	154.4	161.2	123.5	96.1
15516.1	77.5°	11944.9	2634.6	161.2	120.1	89.2	72.0	106.3	99.5	65.2	44.6
5982.8	80°	5245.2	1097.8	92.6	54.9	34.3	27.4	37.7	27.4	20.6	13.7
819.9	82.5°	614.1	257.3	34.3	20.6	13.7	6.9	3.4	0.0	0.0	0.0
250.4	85°	126.9	30.9	17.2	6.9	3.4	0.0	0.0	0.0	0.0	0.0
44.6	87.5°	24.0	6.9	3.4	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>
6154.3
5979.3
5715.2
4922.7
3581.4
2315.6
1855.9
1691.2
1533.4
1379.1
1245.3
1152.6
1053.2
964.0
878.2
802.7
737.6
693.0
651.8
620.9
593.5
566.0
535.2
497.4
439.1
349.9
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188.7
144.1
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