

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: P944127

Luminaire Tested: **GALN-SB8D-935-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944127
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-935-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57281 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

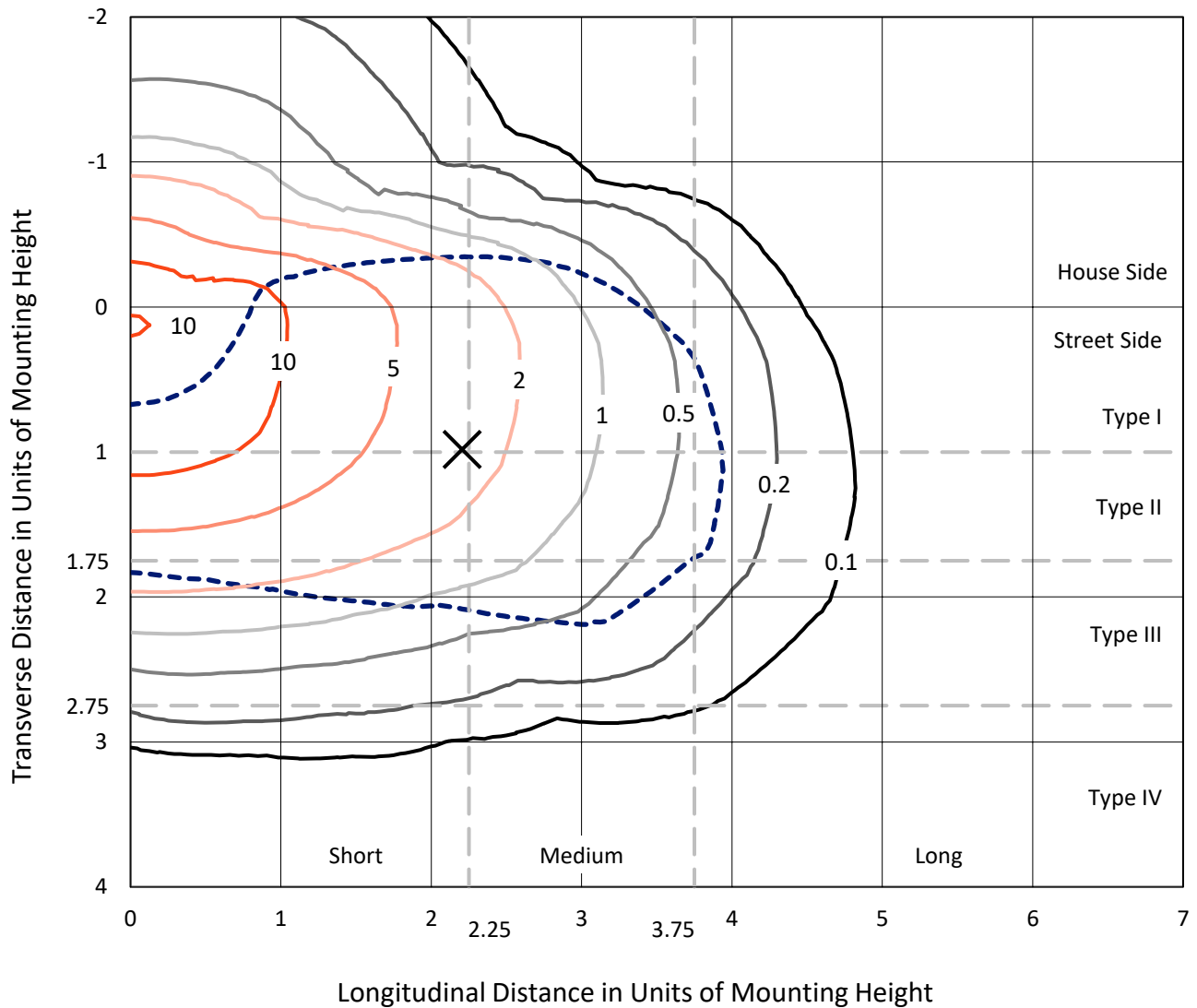
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

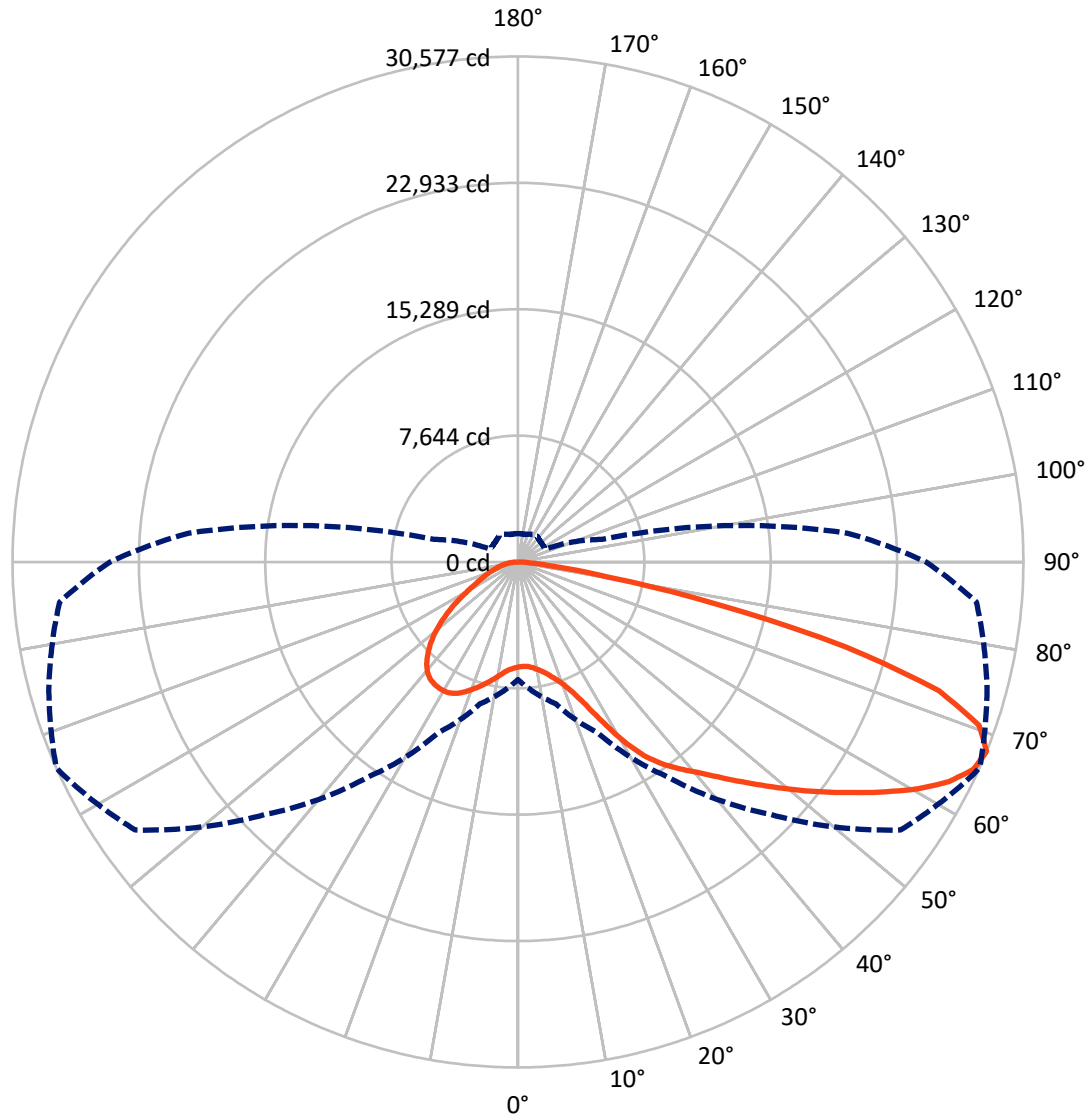
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14242.8	0.0	14242.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	43038.3	0.0	43038.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	57281.0	0.0	57281.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	629.9	1.1
10°-20°	2081.1	3.6
20°-30°	4011.2	7.0
30°-40°	7033.1	12.3
40°-50°	10455.9	18.3
50°-60°	13253.9	23.1
60°-70°	12968.6	22.6
70°-80°	6186.2	10.8
80°-90°	661.1	1.2
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°	57281.0	100.0
0°-180°	57281.0	100.0



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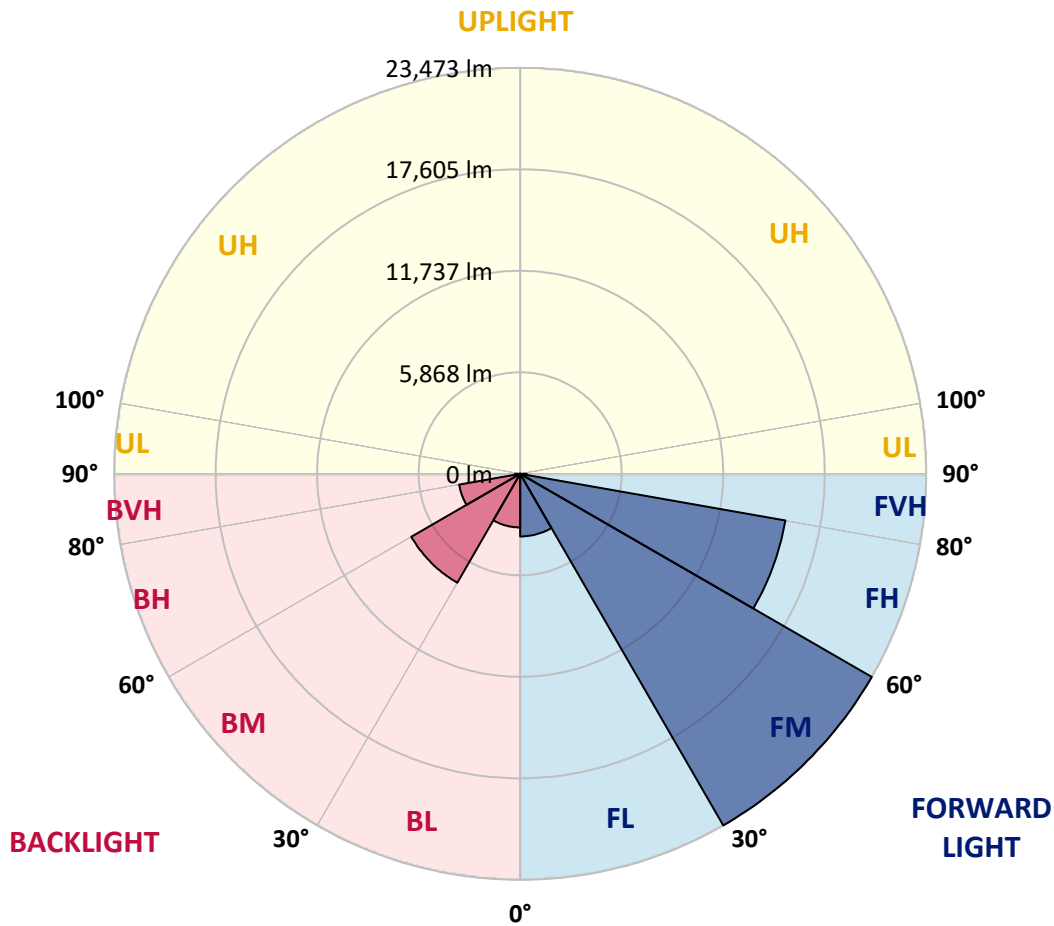
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3619.6	6.3			
FM (30°-60°)	23473.3	41.0			
FH (60°-80°)	15570.5	27.2			G5
FVH (80°-90°)	374.8	0.7			G3/500
BL (0°-30°)	3102.6	5.4	B4/5000		
BM (30°-60°)	7269.7	12.7	B4/8500		
BH (60°-80°)	3584.2	6.3	B4/5000		G4/5000
BVH (80°-90°)	286.3	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	6353.2	6353.2	6353.2	6353.2	6353.2	6353.2	6353.2	6353.2	6353.2	6353.2
2.5°	6287.0	6323.1	6314.1	6299.0	6296.0	6302.1	6311.1	6320.1	6317.1	6332.2
5°	6269.0	6305.1	6302.1	6302.1	6314.1	6338.2	6353.2	6368.3	6353.2	6371.3
7.5°	6281.0	6308.1	6320.1	6332.2	6362.2	6407.4	6443.5	6476.6	6458.6	6479.6
10°	6434.5	6455.5	6467.6	6467.6	6488.7	6539.8	6575.9	6636.1	6621.1	6654.2
12.5°	6714.4	6735.4	6735.4	6723.4	6738.4	6771.6	6783.6	6849.8	6822.7	6876.9
15°	7057.5	7099.6	7066.5	7045.4	7051.4	7084.5	7081.5	7132.7	7105.6	7150.8
17.5°	7436.7	7490.8	7436.7	7433.7	7421.6	7457.7	7460.7	7505.9	7457.7	7490.8
20°	7885.1	7960.3	7915.2	7930.2	7903.2	7918.2	7933.2	7999.5	7924.2	7948.3
22.5°	8517.1	8607.4	8559.2	8616.4	8598.4	8586.3	8583.3	8700.7	8583.3	8592.3
25°	9438.0	9546.4	9462.1	9540.4	9540.4	9579.5	9624.6	9775.1	9579.5	9522.3
27.5°	10798.4	10906.7	10741.2	10789.3	10774.3	10870.6	10822.4	11195.6	10985.0	10891.7
30°	12435.6	12628.2	12315.2	12303.2	12288.1	12441.6	12510.8	12757.6	12543.9	12450.6
32.5°	14205.2	14406.9	14033.7	13925.3	13868.1	13961.4	13904.3	14102.9	13955.4	13811.0
35°	16077.2	16275.8	15920.7	15710.0	15481.3	15285.6	15081.0	15132.2	14993.7	14774.0
37.5°	17846.8	18211.0	17834.8	17609.0	17187.7	16805.5	16233.7	15995.9	15866.5	15664.9
40°	19649.5	19857.2	19571.3	19378.7	18921.2	18322.3	17407.4	16904.8	16730.2	16534.6
42.5°	20976.8	21175.4	21021.9	20889.5	20531.3	19836.1	18653.4	18024.4	17771.6	17551.9
45°	22030.1	22177.6	22081.3	22129.4	21975.9	21301.8	19944.5	19225.2	18963.4	18695.5
47.5°	22454.5	22611.0	22764.5	23050.4	23312.2	22815.6	21331.9	20525.3	20248.4	19974.6
50°	22406.3	22565.8	23011.2	23619.2	24431.8	24266.2	22794.5	21909.7	21653.9	21340.9
52.5°	22021.1	22201.7	22773.5	23784.7	25078.8	25352.7	24284.3	23339.3	23098.5	22725.3
55°	21009.9	21118.2	21975.9	23408.5	25232.3	26111.1	25743.9	24862.1	24621.4	24100.7
57.5°	19134.9	19291.4	20540.4	22394.3	24847.1	26625.7	27026.0	26463.2	26231.5	25482.1
60°	16688.1	16937.9	18367.5	20690.9	23866.0	26622.7	28190.7	28037.2	27844.6	26842.4
62.5°	13919.3	14208.2	15583.6	18283.2	22150.5	25867.3	28919.0	29355.4	29256.1	28097.4
65°	10690.0	10888.7	12258.0	15168.3	19481.0	24245.2	29003.3	30255.3	30273.3	29051.5
67.5°	7117.7	7689.5	8878.3	11382.2	15905.6	21593.7	28263.0	30402.8	30577.3	29379.5
70°	3473.1	4225.4	5390.2	7397.5	11382.2	17527.8	26327.8	29192.9	29581.1	28422.5
72.5°	1441.6	1685.4	2320.4	3650.6	6533.8	11827.6	22439.4	25912.5	26631.8	25184.2
75°	972.1	1053.4	1327.2	1872.0	2976.5	5832.6	16182.5	19321.5	20480.2	19020.5
77.5°	749.4	800.5	966.1	1309.2	1769.6	2206.0	8661.6	11644.1	12243.0	11334.1
80°	589.9	629.0	722.3	954.0	1255.0	1179.8	2952.4	5275.8	5621.9	4716.0
82.5°	511.6	526.7	517.6	647.1	833.7	689.2	969.1	1947.2	2148.8	1559.0
85°	370.2	412.3	430.4	400.3	442.4	349.1	397.3	689.2	758.4	677.2
87.5°	150.5	222.7	273.9	258.8	162.5	99.3	123.4	201.6	231.7	252.8
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°
6353.2	0°	6353.2	6353.2	6353.2	6353.2	6353.2	6353.2	6353.2	6353.2	6353.2	6353.2
6356.2	2.5°	6359.2	6380.3	6395.4	6413.4	6425.4	6443.5	6479.6	6500.7	6503.7	6518.7
6404.4	5°	6416.4	6446.5	6479.6	6527.8	6581.9	6627.1	6696.3	6744.5	6762.5	6777.6
6521.8	7.5°	6539.8	6581.9	6642.1	6726.4	6804.7	6864.8	6949.1	7006.3	7063.5	7084.5
6708.4	10°	6723.4	6783.6	6870.9	6985.2	7069.5	7147.7	7235.0	7283.2	7340.4	7364.4
6931.1	12.5°	6952.1	7015.3	7129.7	7289.2	7367.4	7421.6	7451.7	7439.7	7451.7	7472.8
7198.9	15°	7214.0	7283.2	7412.6	7584.1	7638.3	7590.2	7523.9	7463.8	7454.7	7460.7
7523.9	17.5°	7523.9	7575.1	7725.6	7870.0	7830.9	7632.3	7487.8	7391.5	7343.4	7328.3
7939.3	20°	7957.3	7957.3	8080.7	8171.0	7909.2	7572.1	7346.4	7189.9	7090.6	7048.4
8505.1	22.5°	8484.0	8435.8	8514.1	8450.9	7894.1	7403.6	7090.6	6819.7	6669.2	6609.0
9296.6	25°	9152.1	9094.9	9073.9	8682.6	7785.8	7135.7	6627.1	6299.0	6166.6	6133.5
10437.2	27.5°	10160.3	10015.9	9742.0	8809.0	7587.1	6714.4	6085.4	5781.4	5706.2	5709.2
11902.9	30°	11502.6	11213.7	10542.6	8830.1	7262.1	6118.5	5531.6	5314.9	5278.8	5293.8
13133.8	32.5°	12745.6	12471.7	11361.2	8733.8	6762.5	5534.6	5035.0	4890.6	4836.4	4854.4
14072.8	35°	13720.7	13645.4	12119.6	8598.4	6148.6	4986.9	4589.6	4466.2	4360.9	4336.8
14957.6	37.5°	14641.6	14611.5	12688.4	8408.8	5540.6	4598.6	4231.5	4068.9	3915.5	3831.2
15935.7	40°	15652.8	15622.7	13061.6	8116.8	5001.9	4261.6	3909.4	3695.8	3506.2	3352.7
17043.2	42.5°	16790.4	16612.9	13239.1	7698.5	4544.5	3975.7	3647.6	3358.7	3108.9	2967.4
18295.2	45°	18033.4	17633.1	13236.1	7165.8	4159.2	3713.8	3367.7	2958.4	2726.7	2594.3
19580.3	47.5°	19351.6	18608.2	13073.6	6575.9	3786.0	3424.9	2934.3	2621.3	2467.9	2386.6
20976.8	50°	20711.9	19520.1	12796.7	5898.8	3403.8	3096.9	2663.5	2449.8	2332.4	2257.2
22361.2	52.5°	21991.0	20347.8	12462.7	5131.3	3015.6	2777.8	2543.1	2377.6	2254.2	2169.9
23703.4	55°	23179.8	21061.0	11990.2	4345.8	2699.6	2564.2	2485.9	2347.5	2206.0	2106.7
25066.8	57.5°	24236.1	21524.5	11174.6	3608.5	2473.9	2416.7	2425.7	2296.3	2133.8	2049.5
26409.1	60°	25114.9	21864.6	9967.7	2925.3	2290.3	2272.2	2332.4	2200.0	2010.4	1914.1
27543.7	62.5°	25641.6	21858.6	8487.0	2395.6	2133.8	2139.8	2209.0	2079.6	1887.0	1796.7
28136.5	65°	25596.5	21322.9	6861.8	2049.5	1983.3	1989.3	2079.6	1947.2	1784.7	1730.5
27838.6	67.5°	24690.6	20016.7	5263.8	1823.8	1817.8	1844.9	1950.2	1856.9	1721.5	1715.5
26062.9	70°	22237.8	17305.1	3792.1	1643.2	1646.2	1685.4	1823.8	1799.7	1688.4	1700.4
21912.7	72.5°	17831.8	13194.0	2546.1	1453.6	1456.6	1519.8	1703.4	1754.6	1655.3	1814.8
15547.5	75°	11875.8	8228.2	1637.2	1252.0	1255.0	1336.3	1598.1	1667.3	1565.0	1808.8
8089.7	77.5°	5706.2	3698.8	1185.8	1053.4	1053.4	1128.6	1381.4	1492.8	1333.2	1405.5
2600.3	80°	1971.3	1390.4	933.0	848.7	830.6	881.8	1164.7	1294.1	1149.7	1059.4
848.7	82.5°	776.5	722.3	749.4	659.1	598.9	632.0	905.9	1068.4	845.7	764.4
478.5	85°	445.4	469.5	529.7	436.4	346.1	388.2	665.1	767.4	638.0	562.8
156.5	87.5°	120.4	165.5	243.8	225.7	156.5	165.5	316.0	424.4	367.2	282.9
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>
6353.2
6515.7
6774.6
7087.6
7376.5
7478.8
7481.8
7349.4
7039.4
6600.0
6139.5
5718.2
5345.0
4878.5
4354.9
3834.2
3367.7
2976.5
2588.2
2368.5
2230.1
2133.8
2067.6
1995.4
1872.0
1769.6
1727.5
1724.5
1697.4
1838.9
1823.8
1288.1
993.2
761.4
574.8
291.9
0.0

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