

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: P951714

Luminaire Tested: **GALN-SB5D-740-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951714  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
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-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

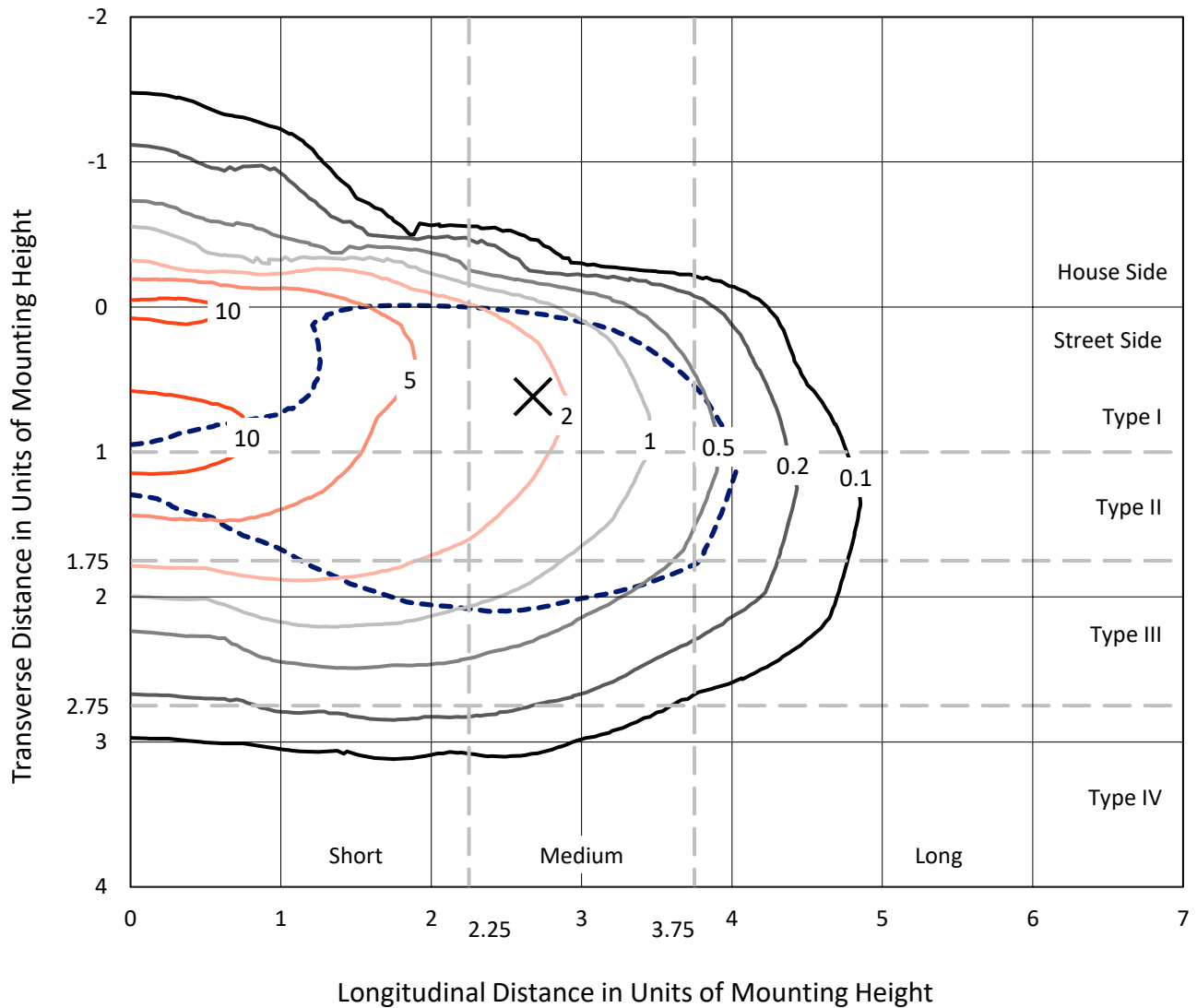
Lumens per Lamp: N/A  
Luminaire Lumens: 45276 lumens  
Efficiency: N/A  
Efficacy: 124.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): 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

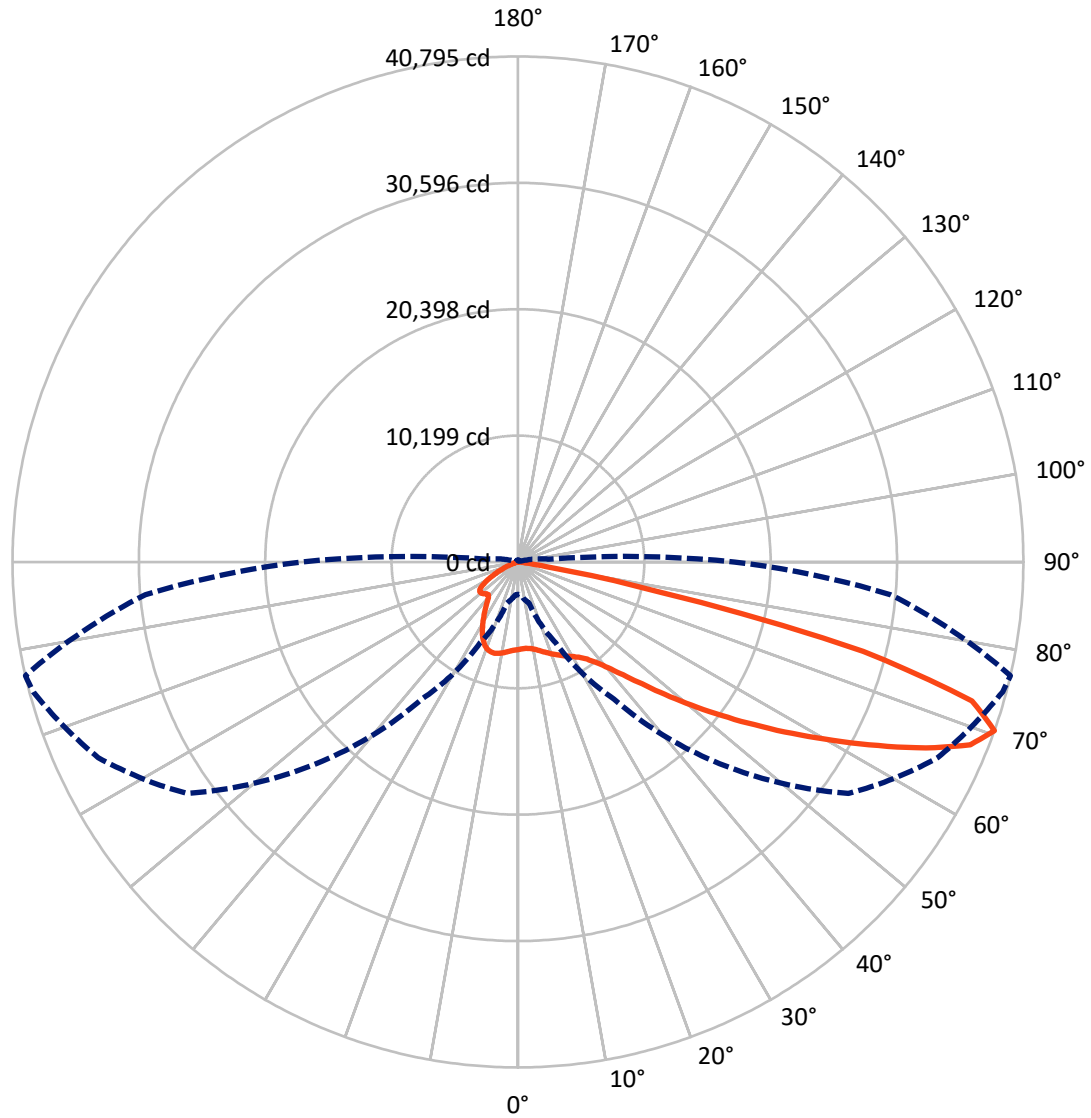
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4772.7	0.0	4772.7
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	40503.3	0.0	40503.3
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	45276.0	0.0	45276.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	608.7	1.3
10°-20°	1444.9	3.2
20°-30°	2234.8	4.9
30°-40°	4055.2	9.0
40°-50°	7654.7	16.9
50°-60°	11060.4	24.4
60°-70°	11773.5	26.0
70°-80°	6239.1	13.8
80°-90°	204.9	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°	45276.0	100.0
0°-180°	45276.0	100.0

**Coefficient of Utilization**



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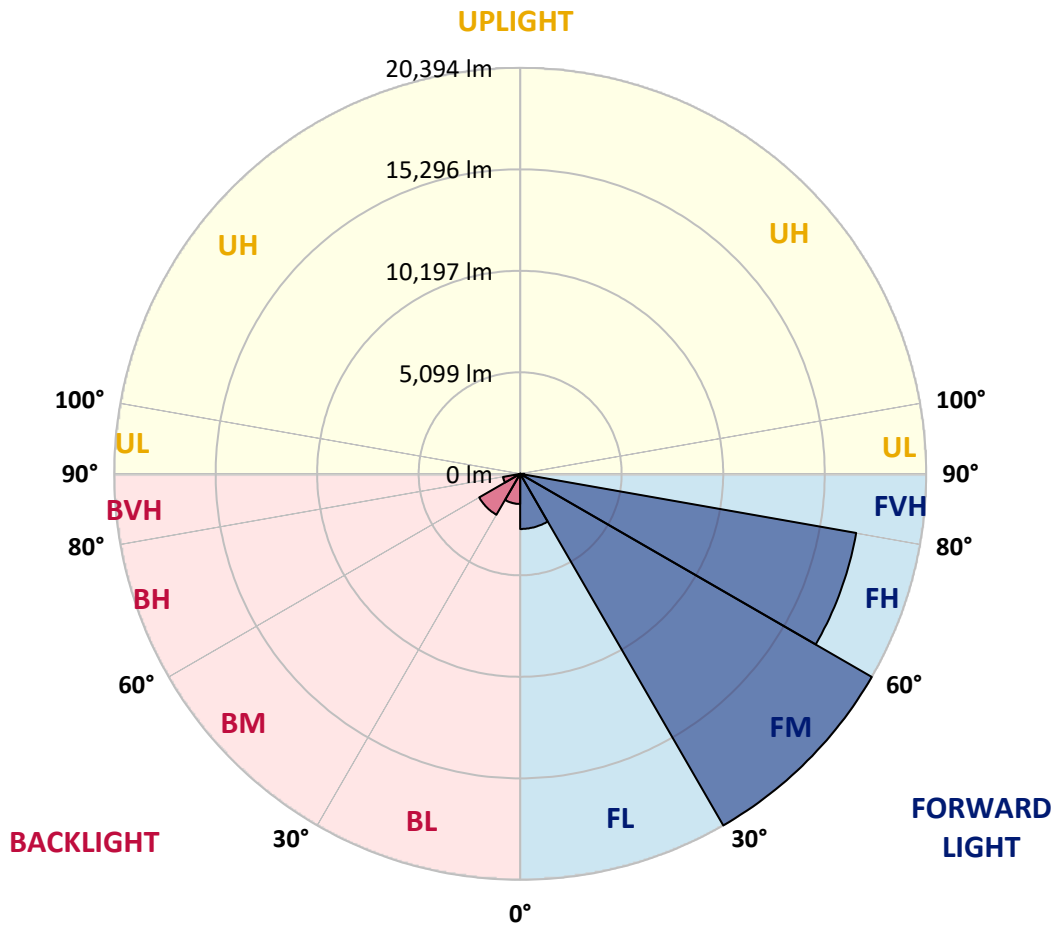
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2772.0	6.1			
FM (30°-60°)	20394.3	45.0			
FH (60°-80°)	17137.6	37.9			G5
FVH (80°-90°)	199.4	0.4			G2/225
BL (0°-30°)	1516.4	3.3	B3/2500		
BM (30°-60°)	2375.9	5.2	B2/2500		
BH (60°-80°)	875.0	1.9	B2/1000		G2/1000
BVH (80°-90°)	5.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	7062.2	7062.2	7062.2	7062.2	7062.2	7062.2	7062.2	7062.2	7062.2	7062.2
2.5°	6630.5	6690.5	6682.0	6722.0	6736.3	6793.5	6850.7	6927.9	7013.6	7010.8
5°	6255.9	6316.0	6330.3	6384.6	6453.2	6541.9	6659.1	6813.5	6973.6	6999.3
7.5°	5812.8	5875.7	5912.8	6021.5	6147.3	6330.3	6521.8	6747.7	7013.6	7050.8
10°	5369.6	5426.8	5475.4	5629.8	5829.9	6101.5	6413.2	6739.1	7096.5	7150.9
12.5°	5095.1	5149.4	5203.8	5338.1	5586.9	5918.6	6341.7	6779.2	7233.8	7311.0
15°	4997.9	5046.5	5089.4	5209.5	5441.1	5818.5	6327.4	6862.1	7408.2	7511.1
17.5°	5012.2	5037.9	5066.5	5158.0	5383.9	5772.7	6353.2	7005.1	7614.1	7705.6
20°	5095.1	5109.4	5112.3	5175.2	5375.3	5767.0	6404.6	7142.3	7808.5	7931.4
22.5°	5200.9	5206.6	5200.9	5243.8	5429.6	5809.9	6473.2	7308.1	8025.8	8140.2
25°	5695.5	5586.9	5449.6	5366.7	5521.1	5892.8	6576.2	7531.1	8263.1	8374.6
27.5°	7230.9	6919.3	6427.5	5875.7	5709.8	6012.9	6719.1	7757.0	8503.3	8603.4
30°	9724.2	9315.3	8480.4	7236.6	6316.0	6264.5	6905.0	7982.9	8757.7	8866.4
32.5°	12223.1	12123.0	11159.5	9438.2	7679.8	6824.9	7213.8	8288.8	9095.1	9180.9
35°	14750.6	14547.6	13758.5	12057.3	9781.3	7965.7	7728.4	8689.1	9538.3	9635.5
37.5°	16686.3	16563.4	16074.5	14673.4	12274.6	9727.0	8609.1	9309.6	10181.6	10290.3
40°	18396.1	18338.9	18173.1	17249.6	15062.3	12031.5	9978.6	10270.3	11073.7	11202.4
42.5°	19740.0	19874.3	19968.7	19711.4	17935.8	14662.0	11820.0	11619.8	12317.5	12449.0
45°	21115.2	21161.0	21541.3	21913.0	20789.3	17412.6	13895.7	13201.0	13864.3	14027.3
47.5°	21998.7	22181.7	22850.8	23505.5	23188.2	20140.2	16125.9	15068.0	15657.0	15962.9
50°	22064.5	22410.5	23331.1	24471.9	24935.1	22736.4	18550.5	17195.3	17821.4	18158.8
52.5°	20969.4	21506.9	22933.7	24603.5	25878.7	24935.1	21058.1	19322.5	20125.9	20566.3
55°	16077.3	16780.7	21438.3	23888.7	25915.8	26602.1	23499.8	21538.4	22693.5	23191.0
57.5°	14007.2	14361.8	16855.0	22647.8	25226.8	27274.0	25707.1	23648.5	25487.0	26104.5
60°	11654.1	12120.2	14135.9	20617.7	24291.8	27339.7	27657.1	26370.5	28514.9	29209.6
62.5°	7920.0	8426.1	10430.4	17129.5	23013.7	27308.3	29255.4	29172.5	31880.1	32626.4
65°	4906.4	5223.8	6544.7	13987.2	21226.7	27342.6	30928.0	32574.9	35431.3	36189.0
67.5°	3877.1	4022.9	4712.0	10739.2	18147.4	26570.6	32597.8	35774.4	38773.7	39374.1
70°	2604.7	2693.4	3428.2	7199.5	13501.2	23008.0	32566.4	37381.3	40494.9	40795.1
72.5°	1372.4	1441.0	2004.3	3333.8	8154.5	16354.7	27451.2	35459.9	38782.3	38330.5
75°	686.2	800.6	1349.5	1692.6	3482.5	9120.9	17046.6	27957.3	30524.9	28775.0
77.5°	520.4	629.0	1115.1	1115.1	1212.3	3070.8	7219.5	15248.1	14064.4	11711.3
80°	331.7	428.9	975.0	843.5	506.1	780.6	1881.4	4271.7	2987.9	2273.1
82.5°	194.4	280.2	812.0	557.5	283.1	288.8	531.8	909.2	774.8	603.3
85°	77.2	183.0	557.5	220.2	111.5	71.5	160.1	194.4	160.1	120.1
87.5°	0.0	42.9	97.2	0.0	8.6	5.7	11.4	14.3	14.3	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°
7062.2	0°	7062.2	7062.2	7062.2	7062.2	7062.2	7062.2	7062.2	7062.2	7062.2	7062.2
7068.0	2.5°	7093.7	7099.4	7116.6	7119.4	7079.4	7027.9	7007.9	6999.3	6965.0	6962.2
7113.7	5°	7179.5	7205.2	7179.5	7105.1	6927.9	6679.1	6490.4	6336.0	6195.9	6153.0
7271.0	7.5°	7351.0	7376.8	7299.6	7007.9	6561.9	6067.2	5621.2	5306.7	5023.6	4917.8
7462.5	10°	7596.9	7631.2	7388.2	6799.2	6010.1	5215.2	4460.4	3928.5	3514.0	3345.3
7722.7	12.5°	7905.7	7920.0	7436.8	6481.8	5292.4	4157.3	3087.9	2519.0	2150.1	2012.9
8037.2	15°	8245.9	8225.9	7442.5	6050.1	4314.5	2939.3	2015.7	1655.5	1506.8	1461.1
8351.7	17.5°	8603.4	8520.4	7328.1	5426.8	3242.3	2010.0	1495.4	1409.6	1383.9	1372.4
8663.4	20°	8955.0	8769.2	7119.4	4611.9	2327.4	1501.1	1358.1	1332.4	1318.1	1312.4
8977.9	22.5°	9275.3	8957.9	6762.0	3665.5	1689.8	1326.7	1283.8	1260.9	1235.2	1223.7
9283.8	25°	9586.9	9066.5	6258.8	2782.0	1352.4	1240.9	1206.6	1163.7	1129.4	1115.1
9612.6	27.5°	9890.0	9135.2	5629.8	2058.6	1206.6	1160.8	1097.9	1037.9	1012.2	1006.4
9964.3	30°	10213.1	9158.0	4915.0	1535.4	1117.9	1060.8	969.3	900.6	886.4	889.2
10439.0	32.5°	10607.7	9192.3	4194.5	1258.1	1043.6	940.7	832.0	760.5	749.1	760.5
11130.9	35°	11079.4	9261.0	3499.7	1158.0	977.8	817.7	700.5	640.5	629.0	637.6
12017.2	37.5°	11719.9	9372.5	2850.6	1138.0	923.5	714.8	589.0	540.4	540.4	543.2
13103.7	40°	12571.9	9669.8	2270.2	1123.7	894.9	637.6	497.5	477.5	486.1	491.8
14487.6	42.5°	13609.8	10301.7	1878.5	1106.5	863.5	603.3	451.8	443.2	457.5	463.2
16145.9	45°	14773.5	11102.3	1741.3	1077.9	834.9	626.2	431.7	420.3	437.5	440.3
18004.4	47.5°	15977.2	11885.7	1724.1	1046.5	806.3	660.5	426.0	400.3	420.3	423.2
19988.7	50°	17195.3	12397.5	1741.3	997.9	760.5	660.5	428.9	380.3	397.4	406.0
22047.3	52.5°	18421.9	12632.0	1729.8	892.1	680.5	620.4	428.9	363.1	380.3	386.0
24271.8	55°	19611.3	12586.2	1555.4	734.8	577.6	549.0	417.4	348.8	360.3	363.1
26373.3	57.5°	20552.0	11948.6	1232.3	571.8	468.9	457.5	380.3	331.7	340.2	337.4
28300.4	60°	21043.8	10547.6	880.6	440.3	368.8	360.3	334.5	308.8	314.5	300.2
29933.0	62.5°	21049.5	8694.8	589.0	348.8	294.5	285.9	285.9	277.3	271.6	243.0
31196.8	65°	20600.6	6639.1	391.7	277.3	237.3	223.0	240.2	237.3	217.3	177.3
31582.8	67.5°	19582.7	4351.7	297.4	217.3	183.0	174.4	191.6	200.1	185.8	148.7
30176.1	70°	17489.8	2533.3	245.9	168.7	137.2	128.7	154.4	171.6	154.4	120.1
25792.9	72.5°	14527.6	1366.7	200.1	125.8	94.4	85.8	122.9	140.1	122.9	88.6
16549.1	75°	9426.8	732.0	154.4	82.9	48.6	54.3	91.5	102.9	85.8	57.2
4857.8	77.5°	3165.1	323.1	97.2	40.0	22.9	22.9	54.3	62.9	40.0	20.0
883.5	80°	706.2	134.4	40.0	17.2	8.6	8.6	11.4	11.4	5.7	0.0
271.6	82.5°	231.6	54.3	17.2	5.7	0.0	0.0	0.0	0.0	0.0	0.0
68.6	85°	88.6	20.0	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.9	87.5°	34.3	2.9	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°
7062.2
6967.9
6127.3
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3273.8
1970.0
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1369.6
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1220.9
1109.4
1000.7
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757.7
634.7
540.4
491.8
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443.2
426.0
408.9
386.0
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