

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: P956293

Luminaire Tested: **GALN-SB9A-727-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-727-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38905 lumens
Efficiency: N/A
Efficacy: 152.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 255.5
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



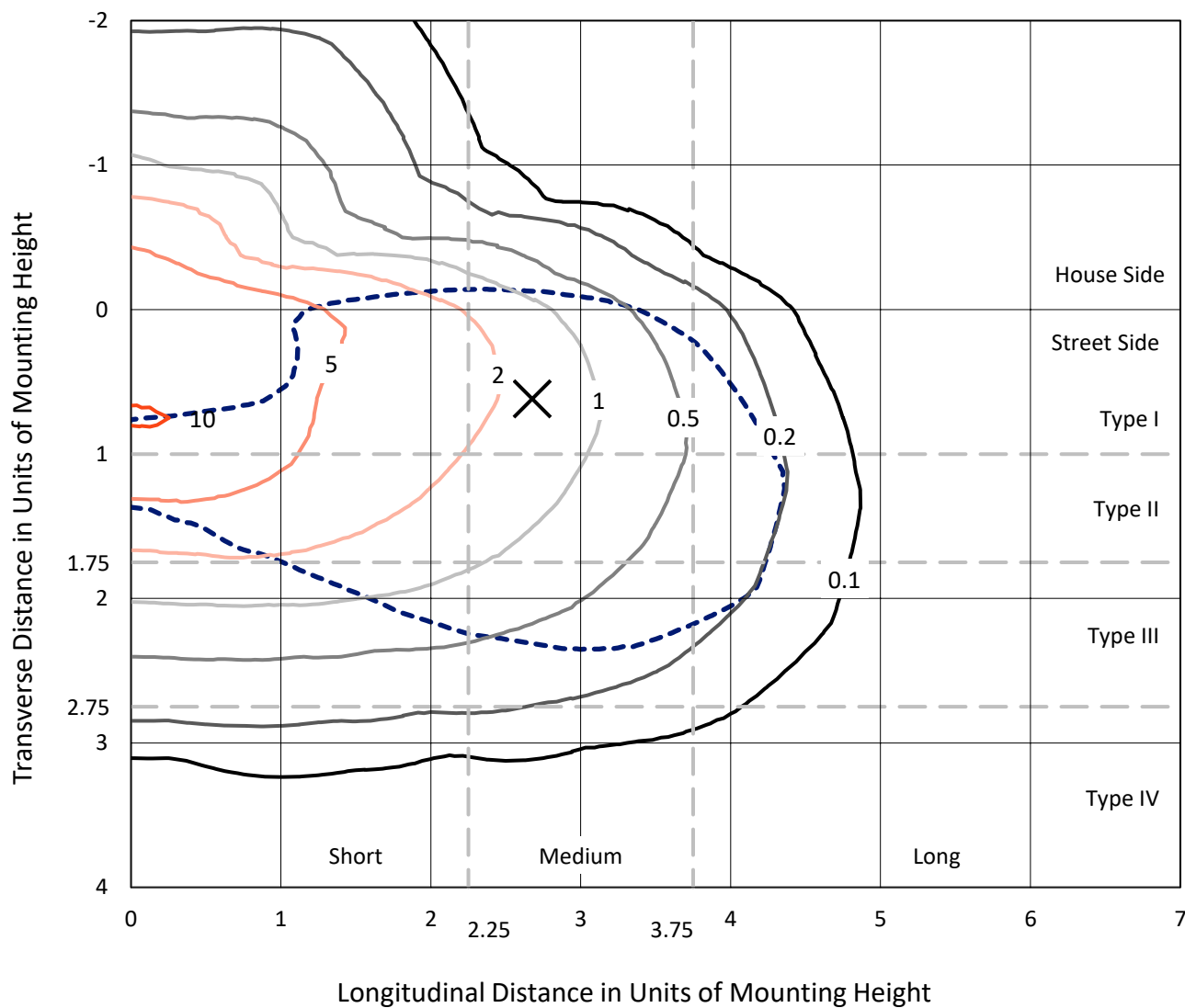
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

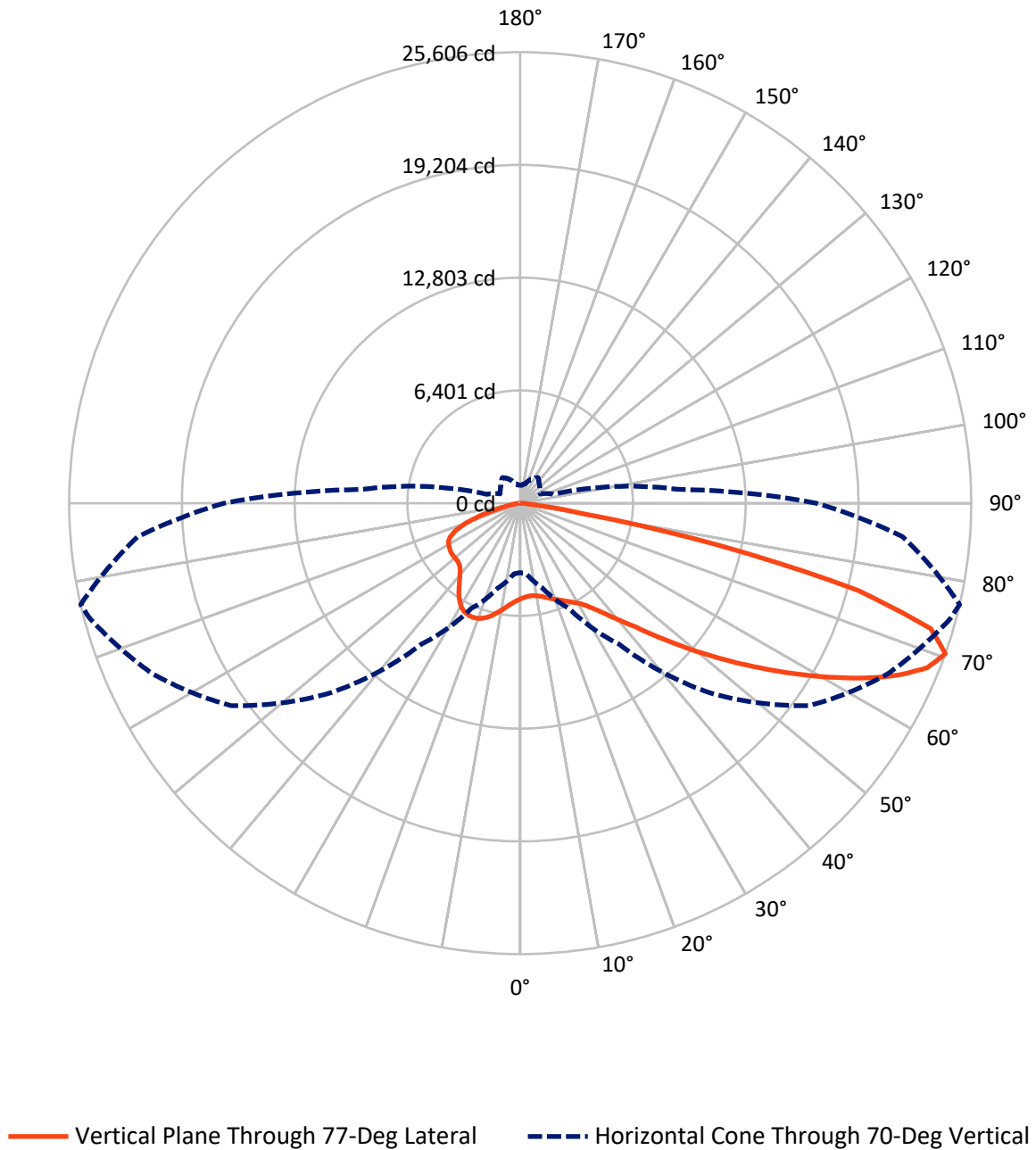


Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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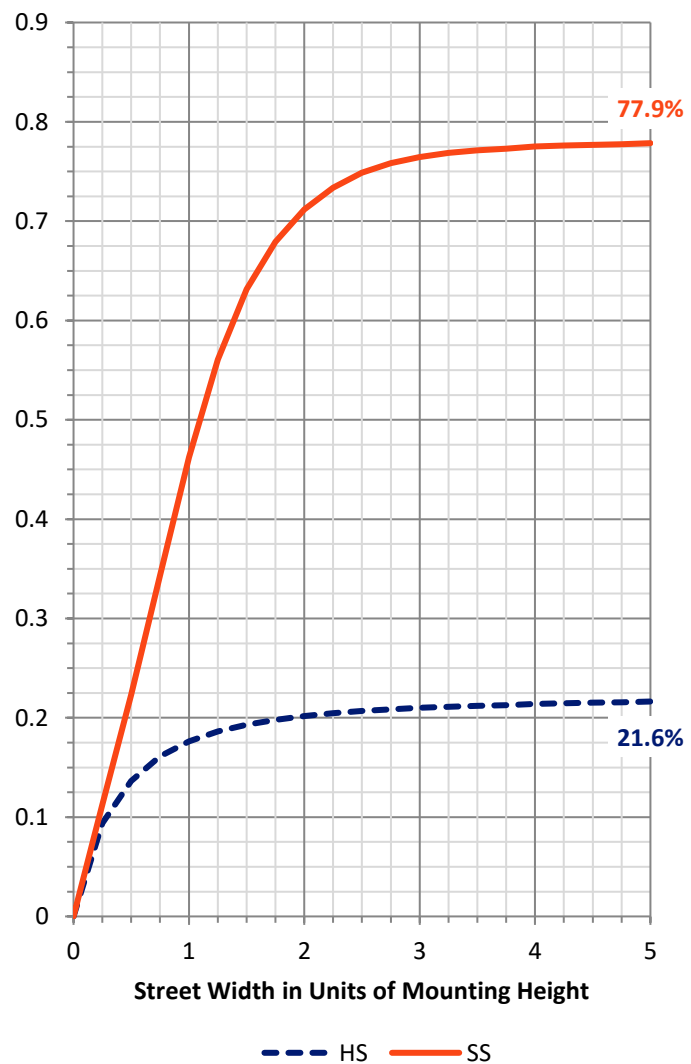
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8519.6	0.0	8519.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	30385.4	0.0	30385.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	38905.0	0.0	38905.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.6	1.3
10°-20°	1494.0	3.8
20°-30°	2554.9	6.6
30°-40°	4108.6	10.6
40°-50°	6414.6	16.5
50°-60°	8568.3	22.0
60°-70°	9132.5	23.5
70°-80°	5621.9	14.5
80°-90°	492.6	1.3
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°	38905.0	100.0
0°-180°	38905.0	100.0

Coefficient of Utilization



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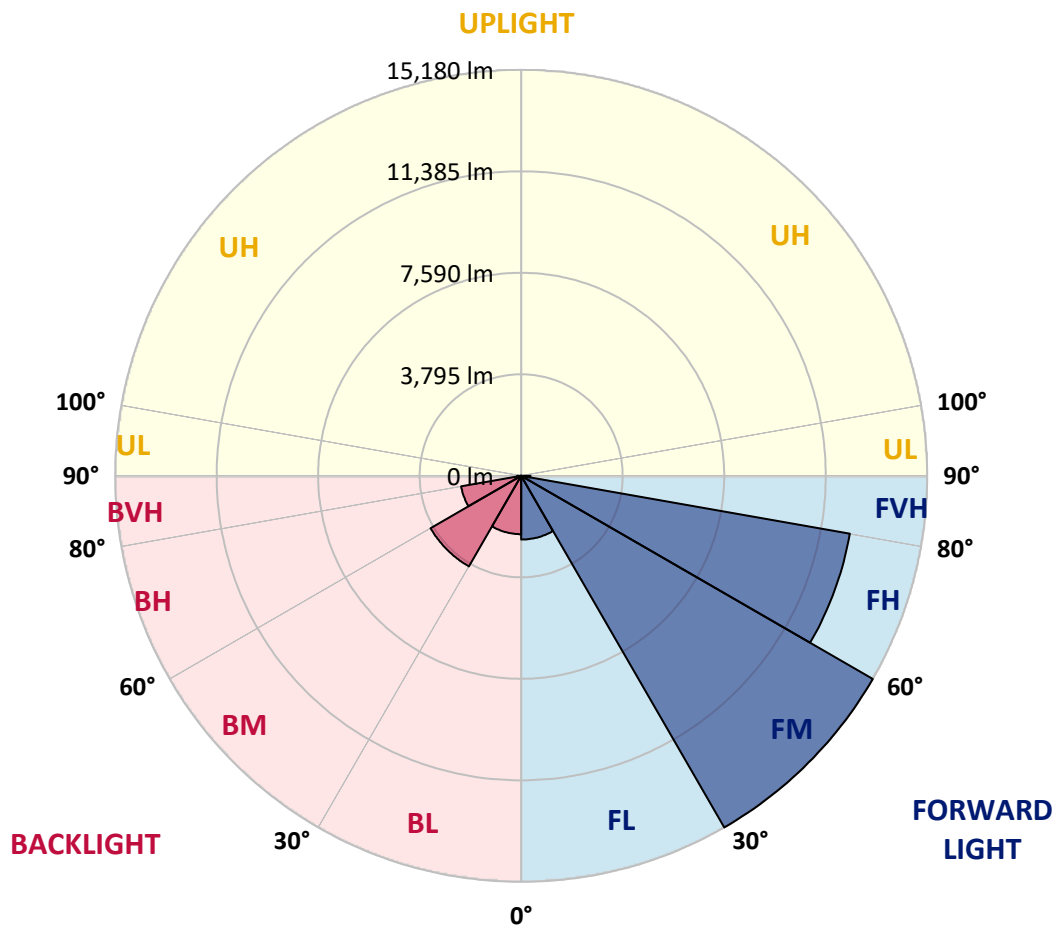
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2383.6	6.1			
FM	(30°-60°)	15179.9	39.0			
FH	(60°-80°)	12477.5	32.1			G5
FVH	(80°-90°)	344.5	0.9			G3/500
BL	(0°-30°)	2183.0	5.6	B3/2500		
BM	(30°-60°)	3911.5	10.1	B3/5000		
BH	(60°-80°)	2276.9	5.9	B3/2500		G3/2500
BVH	(80°-90°)	148.1	0.4			G2/225
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°	85°
0°	5427.6	5427.6	5427.6	5427.6	5427.6	5427.6	5427.6	5427.6	5427.6	5427.6	5427.6
2.5°	5003.2	5001.2	5027.1	5035.1	5082.9	5116.8	5180.5	5248.3	5335.9	5345.9	5399.7
5°	4714.3	4714.3	4744.2	4776.1	4837.8	4905.6	5003.2	5120.8	5272.2	5296.1	5429.6
7.5°	4469.2	4485.1	4511.0	4572.8	4644.5	4742.2	4891.6	5059.0	5258.2	5296.1	5511.3
10°	4271.9	4289.9	4321.8	4371.6	4479.2	4614.7	4809.9	5025.1	5292.1	5351.9	5630.8
12.5°	4210.2	4228.1	4246.0	4283.9	4383.5	4542.9	4776.1	5041.1	5373.8	5433.6	5794.2
15°	4353.6	4375.6	4361.6	4351.6	4403.5	4548.9	4792.0	5098.8	5475.4	5561.1	5995.5
17.5°	4684.4	4692.4	4660.5	4566.8	4558.9	4636.6	4867.7	5178.5	5602.9	5696.6	6198.7
20°	5218.4	5204.4	5138.7	4953.4	4847.8	4831.8	4997.2	5298.1	5734.4	5834.1	6417.9
22.5°	5943.7	5927.7	5796.2	5503.3	5268.2	5112.8	5184.5	5453.5	5881.9	5993.5	6631.1
25°	6848.3	6826.3	6633.1	6234.6	5869.9	5485.4	5439.6	5658.7	6063.2	6166.8	6854.2
27.5°	7904.3	7886.4	7677.1	7151.1	6625.1	5995.5	5756.4	5899.8	6252.5	6370.1	7105.3
30°	9040.0	9091.8	8721.2	8155.4	7489.9	6661.0	6182.8	6196.7	6497.6	6603.2	7410.2
32.5°	10375.0	10464.7	10018.3	9301.0	8392.5	7384.2	6720.7	6611.2	6854.2	6941.9	7794.7
35°	11698.0	11799.7	11429.0	10636.0	9590.0	8237.0	7282.6	7087.4	7328.5	7424.1	8304.8
37.5°	12841.7	12977.2	12785.9	12096.5	10871.1	9265.2	8015.9	7647.3	7912.3	8031.8	8990.2
40°	13744.3	13951.6	13937.6	13507.2	12381.5	10512.5	8946.4	8338.7	8637.5	8767.1	9821.1
42.5°	14477.6	14656.9	14812.3	14790.4	13957.5	11929.2	10040.3	9237.3	9464.4	9613.9	10755.6
45°	14983.7	15175.0	15509.7	15870.4	15473.8	13445.5	11293.6	10303.3	10510.5	10735.7	11869.4
47.5°	15436.0	15653.2	16087.5	16659.4	16761.0	14967.7	12666.4	11544.6	11733.9	11967.0	12987.2
50°	15475.8	15663.1	16336.6	17147.6	17675.6	16430.3	14140.9	12937.4	13114.7	13363.8	14184.7
52.5°	14513.5	14808.3	15983.9	17133.6	18096.0	17653.7	15605.4	14385.9	14585.2	14884.1	15424.0
55°	11265.7	11698.0	14949.8	16599.6	17946.6	18444.7	16998.1	15926.1	16181.2	16494.0	16671.3
57.5°	9703.5	9892.8	11867.4	15627.3	17265.1	18649.9	18173.7	17482.3	17892.8	18235.5	17990.4
60°	8721.2	8878.6	10046.2	14115.0	16368.5	18325.1	19082.3	18932.8	19642.2	20050.6	19339.3
62.5°	7669.2	7818.6	8880.6	11785.7	15220.8	17785.2	19656.1	20271.8	21435.4	21881.8	20610.5
65°	6625.1	6752.6	7770.8	9902.8	13762.3	17245.2	19953.0	21429.5	23095.2	23557.5	21666.6
67.5°	5461.5	5567.1	6529.5	8354.6	11988.9	16506.0	20100.5	22340.0	24539.8	24936.3	22188.6
70°	3941.2	4022.9	5017.1	6607.2	9763.3	15234.7	20040.7	22985.6	25289.0	25605.8	21794.1
72.5°	1863.0	1936.7	3104.3	4289.9	6896.1	12760.0	18831.2	22473.5	24527.8	24370.4	19379.2
75°	994.3	1058.0	1783.3	2353.2	3642.3	8747.1	15410.1	19359.2	20596.6	19831.5	14322.2
77.5°	673.5	723.3	1103.9	1412.7	1663.7	4152.4	9904.8	13403.6	12895.5	11632.3	7173.0
80°	534.0	585.8	904.6	956.4	805.0	1500.4	4092.6	6204.7	4457.2	3564.6	2040.3
82.5°	410.5	468.2	761.1	693.4	438.4	615.7	1191.5	1962.6	1141.7	868.7	494.1
85°	251.1	312.8	597.8	442.3	247.1	280.9	404.5	545.9	348.7	290.9	177.3
87.5°	127.5	179.3	302.9	161.4	111.6	65.8	107.6	107.6	91.7	79.7	45.8
90°	0.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5427.6	5427.6	5427.6	5427.6	5427.6	5427.6	5427.6	5427.6	5427.6	5427.6	5427.6
2.5°	5447.5	5487.4	5555.1	5618.9	5668.7	5716.5	5764.3	5790.2	5798.2	5830.1	5848.0
5°	5511.3	5585.0	5716.5	5840.1	5917.8	5965.6	5999.5	6019.4	6023.4	6033.3	6049.3
7.5°	5628.8	5746.4	5929.7	6053.3	6111.0	6107.0	6093.1	6043.3	6023.4	6005.4	6009.4
10°	5794.2	5949.6	6174.8	6260.5	6224.6	6129.0	6005.4	5860.0	5792.2	5726.5	5706.6
12.5°	5999.5	6196.7	6417.9	6413.9	6236.6	5991.5	5704.6	5481.4	5339.9	5238.3	5214.4
15°	6248.5	6475.7	6645.0	6509.5	6121.0	5680.7	5260.2	4969.3	4841.8	4730.2	4718.3
17.5°	6505.6	6748.6	6826.3	6479.6	5830.1	5220.4	4744.2	4515.0	4389.5	4329.7	4347.7
20°	6756.6	6997.7	6933.9	6308.3	5387.8	4698.3	4273.9	4148.4	4122.5	4136.5	4130.5
22.5°	7021.6	7236.8	6955.9	5977.5	4823.9	4164.3	3931.2	3935.2	3993.0	4034.8	4044.8
25°	7292.6	7438.0	6898.1	5499.3	4218.1	3771.8	3714.0	3777.8	3891.4	3973.1	3995.0
27.5°	7553.6	7617.4	6772.5	4907.6	3698.1	3490.9	3500.8	3632.3	3803.7	3917.3	3945.2
30°	7848.5	7776.8	6531.5	4242.1	3337.5	3249.8	3333.5	3486.9	3658.3	3759.9	3783.8
32.5°	8181.3	7914.3	6148.9	3626.4	3082.4	3056.5	3194.0	3293.6	3369.3	3399.2	3415.2
35°	8595.7	8107.5	5658.7	3194.0	2853.3	2915.0	3046.6	2996.7	2966.9	2950.9	2966.9
37.5°	9133.7	8368.5	5084.9	2913.1	2668.0	2813.4	2867.2	2711.8	2594.3	2536.5	2550.4
40°	9781.2	8751.1	4533.0	2695.9	2550.4	2725.8	2632.1	2444.8	2295.4	2213.7	2219.7
42.5°	10500.5	9151.6	4068.7	2532.5	2484.7	2654.0	2458.8	2235.6	1994.5	1968.6	1994.5
45°	11255.7	9564.1	3751.9	2407.0	2452.8	2592.3	2359.1	1998.5	1827.1	1932.7	1988.5
47.5°	12010.9	9942.6	3560.6	2313.3	2436.8	2522.5	2271.5	1867.0	1745.4	1898.9	1970.6
50°	12851.7	10281.4	3474.9	2245.6	2418.9	2494.6	2140.0	1833.1	1659.8	1761.4	1837.1
52.5°	13686.6	10544.4	3411.2	2177.8	2393.0	2472.7	2076.2	1793.3	1556.2	1562.1	1604.0
55°	14519.4	10715.7	3341.4	2088.2	2335.2	2424.9	2070.2	1749.4	1478.4	1450.5	1470.5
57.5°	15408.1	10813.4	3255.8	1988.5	2235.6	2303.3	2064.2	1715.6	1454.5	1408.7	1414.7
60°	16312.7	10956.8	3144.2	1867.0	2102.1	2157.9	2050.3	1703.6	1440.6	1362.9	1368.9
62.5°	17123.6	11006.6	3010.7	1751.4	1930.7	2014.4	2020.4	1693.6	1402.7	1269.2	1269.2
65°	17655.6	10791.4	2777.6	1619.9	1745.4	1867.0	1962.6	1659.8	1335.0	1201.5	1201.5
67.5°	17633.7	10177.8	2412.9	1450.5	1566.1	1703.6	1878.9	1602.0	1253.3	1117.8	1123.8
70°	16812.8	8966.3	1950.7	1253.3	1368.9	1528.3	1771.3	1516.3	1155.7	1026.1	1038.1
72.5°	14419.8	7017.6	1416.7	1022.2	1139.7	1346.9	1631.9	1412.7	1056.0	944.5	938.5
75°	10301.3	4441.3	960.4	785.0	886.7	1141.7	1458.5	1291.1	964.4	948.4	894.6
77.5°	5262.2	2122.0	635.6	573.8	617.7	900.6	1225.4	1153.7	978.3	783.1	697.4
80°	1711.6	783.1	400.5	390.5	410.5	599.7	948.4	946.4	741.2	532.0	470.2
82.5°	545.9	336.7	261.0	251.1	241.1	376.6	661.5	749.2	500.1	336.7	334.7
85°	217.2	201.2	153.4	141.5	101.6	177.3	346.7	498.1	372.6	243.1	249.1
87.5°	79.7	79.7	41.8	29.9	21.9	59.8	93.6	149.4	213.2	125.5	123.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)