

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: P944675

Luminaire Tested: **GALN-SB9D-727-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-727-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 85184 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B5 - U0 - G5

Input Watts (W): 658
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



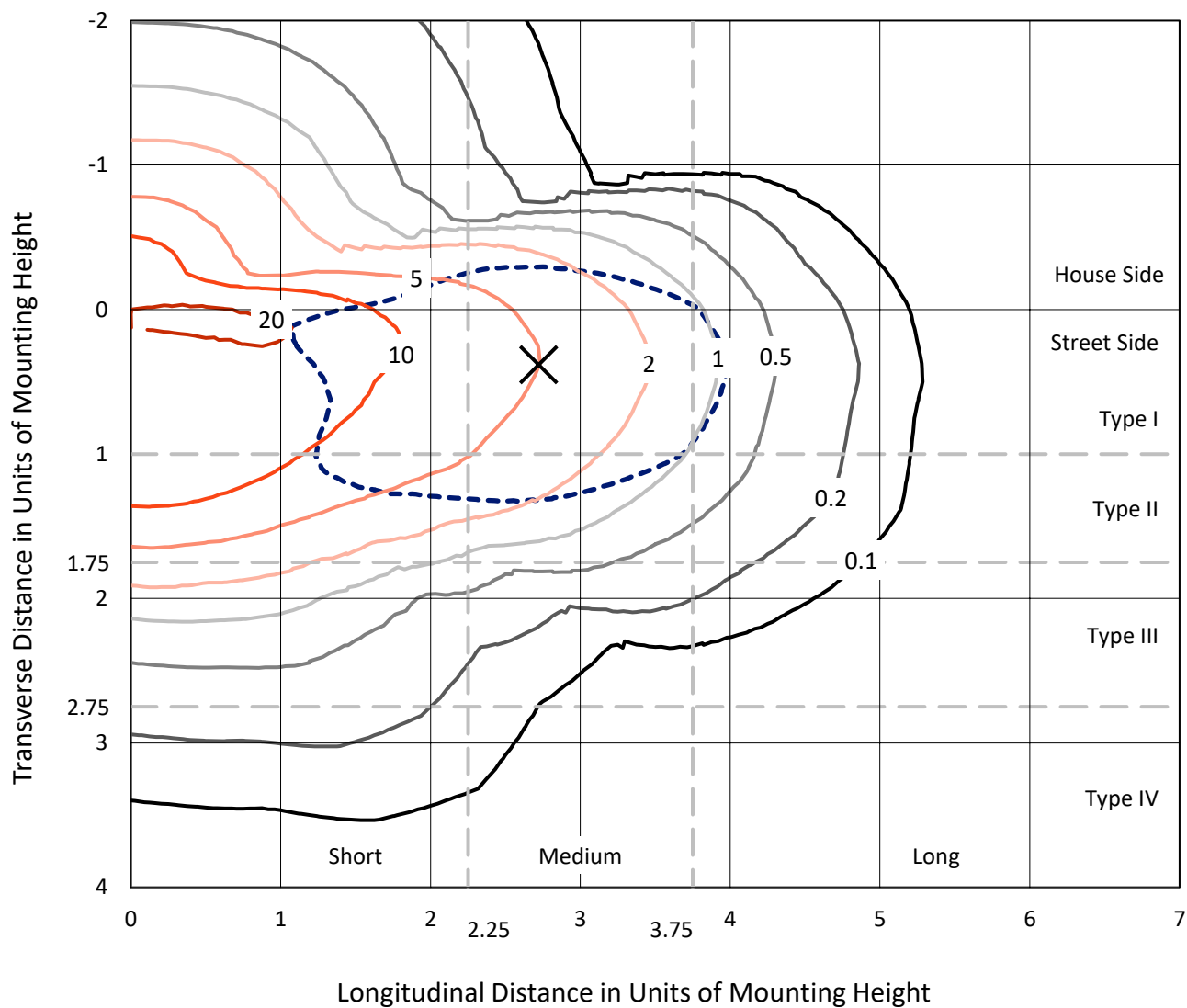
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

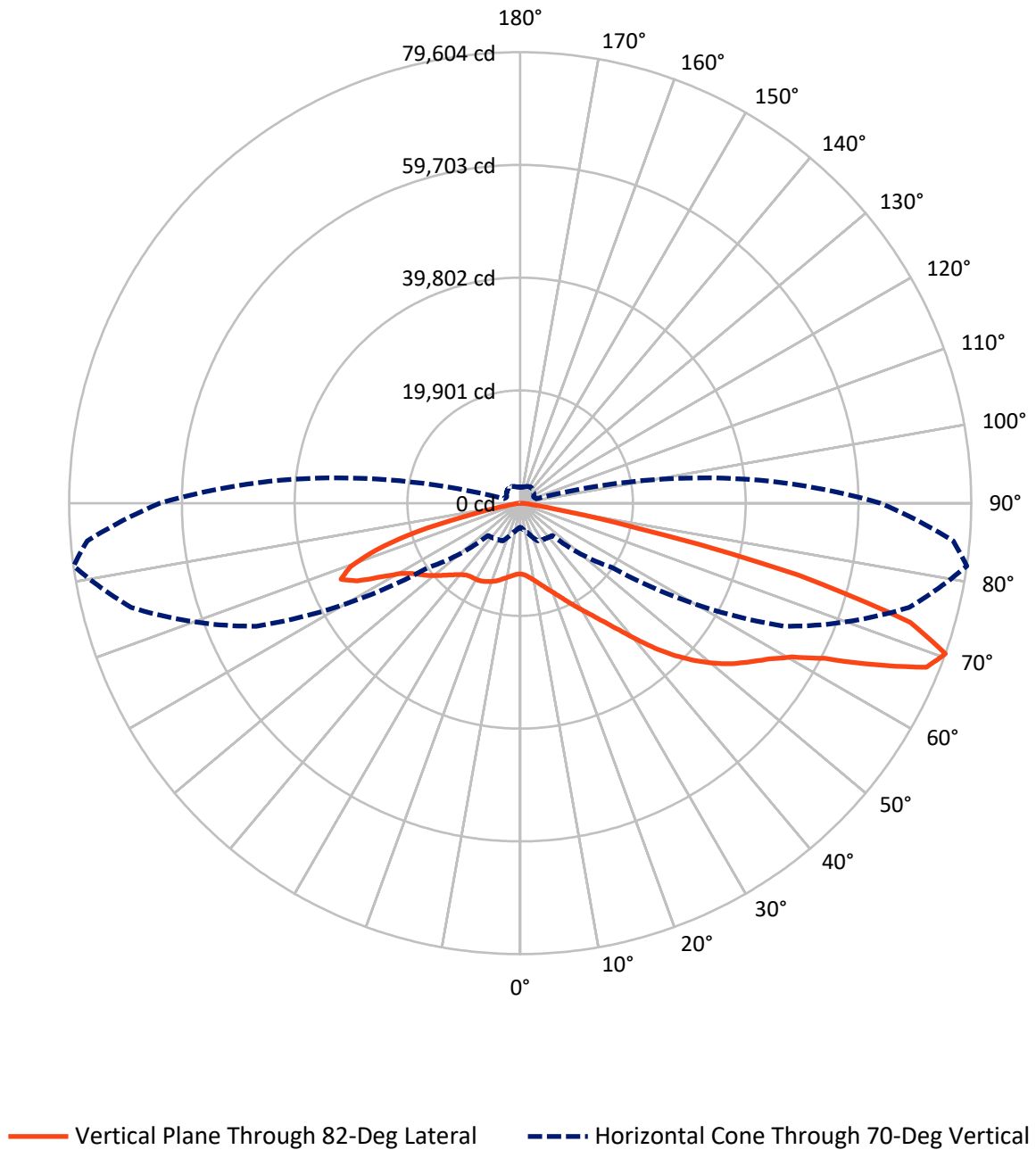


Based on 25 foot mounting height. Maximum calculated value = 22.7 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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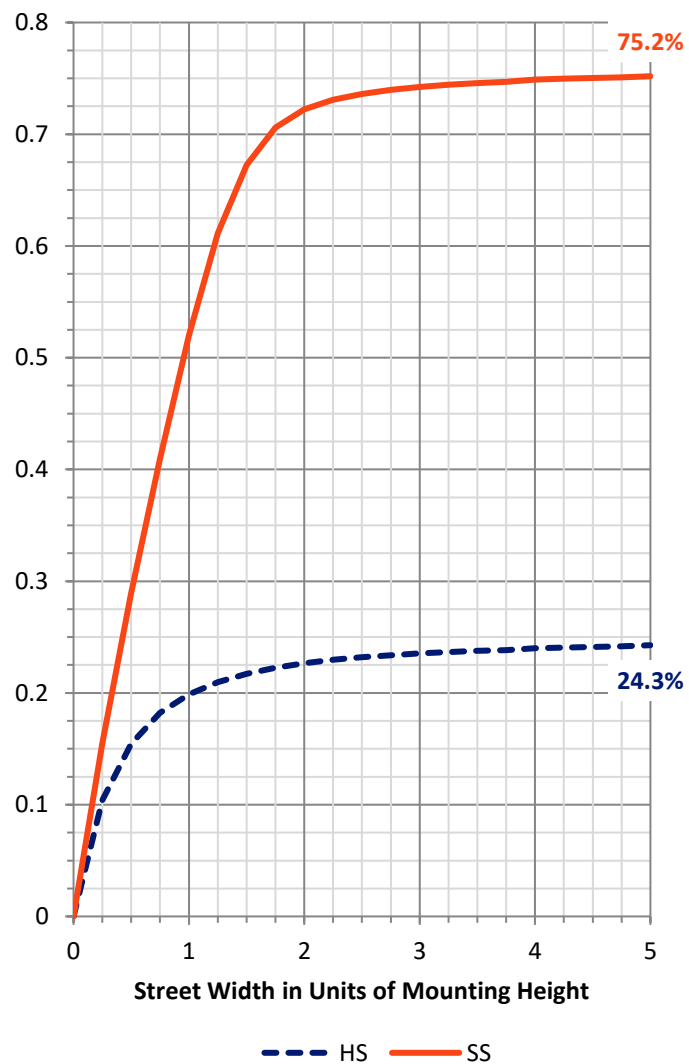
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20999.9	0.0	20999.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	64184.1	0.0	64184.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	85184.0	0.0	85184.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1179.2	1.4
10°-20°	3387.9	4.0
20°-30°	5667.6	6.7
30°-40°	8854.2	10.4
40°-50°	14101.3	16.6
50°-60°	19623.8	23.0
60°-70°	20527.3	24.1
70°-80°	10728.7	12.6
80°-90°	1114.1	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°	85184.0	100.0
0°-180°	85184.0	100.0

Coefficient of Utilization



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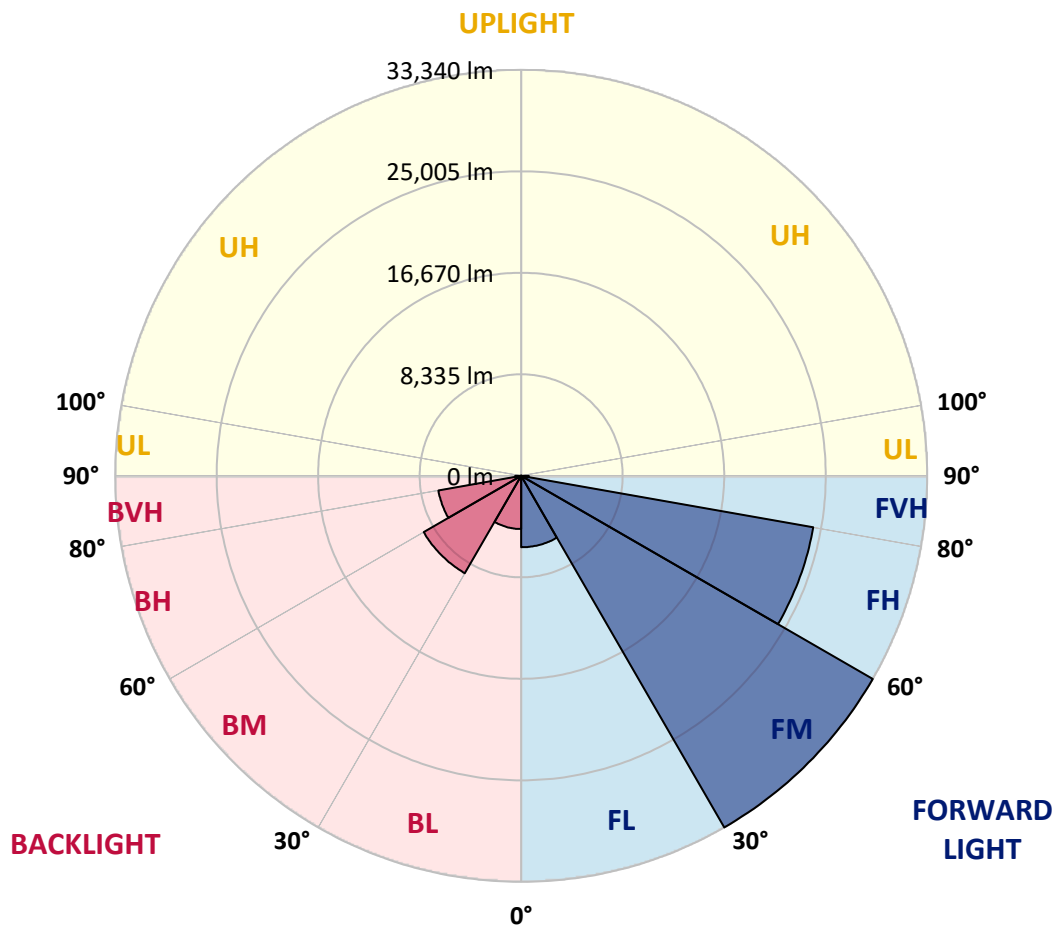
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5865.9	6.9			
FM	(30°-60°)	33340.2	39.1			
FH	(60°-80°)	24354.4	28.6			G5
FVH	(80°-90°)	623.7	0.7			G4/750
BL	(0°-30°)	4368.8	5.1	B4/5000		
BM	(30°-60°)	9239.1	10.8	B5		
BH	(60°-80°)	6901.6	8.1	B5		G5
BVH	(80°-90°)	490.4	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	12489.0	12489.0	12489.0	12489.0	12489.0	12489.0	12489.0	12489.0	12489.0	12489.0	12489.0
2.5°	12787.4	12859.7	12837.1	12814.5	12814.5	12782.8	12778.3	12733.1	12697.0	12638.2	12624.6
5°	12950.1	13026.9	13017.9	13036.0	13094.7	13108.3	13121.9	13094.7	13022.4	12950.1	12918.4
7.5°	12805.4	12891.3	12918.4	13026.9	13207.7	13370.5	13492.5	13542.2	13474.4	13370.5	13320.7
10°	12317.3	12412.2	12507.1	12764.8	13085.7	13469.9	13795.3	13989.7	13976.2	13876.7	13790.8
12.5°	11327.4	11426.8	11630.2	12132.0	12719.6	13397.6	14003.3	14410.1	14550.2	14477.9	14328.7
15°	10536.4	10622.2	10775.9	11291.2	12055.1	13085.7	14080.1	14871.1	15228.2	15187.5	15006.7
17.5°	10513.8	10549.9	10644.8	10888.9	11476.5	12597.5	13998.8	15323.1	16005.7	16001.2	15775.2
20°	10911.5	10925.1	10979.3	11029.0	11363.5	12226.9	13790.8	15698.3	16878.1	16878.1	16634.0
22.5°	11463.0	11453.9	11508.2	11463.0	11625.7	12195.2	13659.7	16028.3	17849.9	17922.2	17614.8
25°	12290.2	12245.0	12231.4	12127.4	12159.1	12489.0	13804.4	16403.4	19002.5	19151.7	18767.5
27.5°	13393.1	13320.7	13271.0	13031.5	12950.1	13094.7	14247.4	16855.5	20286.2	20543.9	20055.7
30°	14830.5	14699.4	14627.0	14211.2	13917.4	13940.0	14916.3	17456.6	21628.7	22044.5	21425.3
32.5°	16792.2	16588.8	16394.4	15711.9	15174.0	14997.7	15779.7	18288.3	23084.2	23748.6	22953.1
35°	18988.9	18826.2	18618.3	17565.1	16737.9	16331.1	16945.9	19450.0	24788.2	25841.4	24806.3
37.5°	21104.4	20964.2	21063.7	19644.4	18577.6	17985.5	18473.7	21009.4	26890.1	28445.0	27129.6
40°	23292.1	23183.6	23197.2	21841.1	20598.1	19933.6	20326.9	22966.6	29299.3	31541.3	29923.1
42.5°	25669.7	25588.3	25317.1	24114.7	22718.0	22098.8	22460.4	25226.7	31884.8	35066.9	32987.7
45°	28332.0	28282.3	28029.1	26650.5	25050.4	24354.3	24842.5	27721.8	34483.9	38384.7	36065.9
47.5°	30632.7	30673.4	30641.8	29480.1	27821.2	26799.7	27382.8	30325.4	36902.1	41503.6	39017.5
50°	31740.2	31952.6	32264.5	31902.9	30872.3	29832.7	29945.7	32838.5	39207.4	44428.1	41847.1
52.5°	31161.6	31563.9	32413.6	32992.2	33390.0	33173.0	32870.2	35333.6	41377.0	47067.8	44523.0
55°	29005.5	29570.5	30980.8	32377.5	34407.0	35984.5	36382.3	38099.9	43492.4	49391.1	47054.3
57.5°	25077.5	25995.1	27260.7	30085.8	33503.0	37345.1	40477.5	41937.5	45734.4	51872.7	49703.0
60°	18342.6	19572.0	21145.0	25348.7	30338.9	36617.3	43962.5	47831.7	48921.1	55086.5	53151.9
62.5°	11738.7	12498.1	13944.5	17904.1	23640.1	32888.3	45029.2	55199.5	54322.6	60356.9	58322.9
65°	8036.7	8524.9	9849.3	12073.2	15282.5	24480.9	42172.5	60723.0	62901.7	68710.1	67164.2
67.5°	5840.0	6210.6	7340.6	9288.8	9957.8	14486.9	32725.5	60469.9	71241.3	77316.3	74911.6
70°	4257.9	4520.1	5469.3	7340.6	7661.6	8059.3	19825.2	51402.6	71060.5	79603.5	76724.2
72.5°	3155.0	3335.8	3973.2	5695.3	6201.6	5442.2	9813.1	37358.6	61062.0	72000.7	69690.9
75°	2282.7	2418.3	2888.3	4357.4	4963.1	4144.9	4895.3	21832.1	42592.9	50647.7	51054.5
77.5°	1744.8	1848.7	2156.1	3191.2	3973.2	3109.8	3037.5	10043.7	20195.8	20295.3	21434.3
80°	1401.2	1469.0	1636.3	2246.5	3046.5	2327.9	1979.8	4054.5	6382.4	5401.5	5668.2
82.5°	1030.6	1143.6	1383.2	1577.5	2178.7	1604.6	1206.9	2047.6	2427.3	2088.3	2106.4
85°	587.6	664.5	836.2	1130.0	1392.2	980.9	691.6	908.5	1130.0	926.6	827.2
87.5°	207.9	271.2	293.8	443.0	605.7	406.8	266.7	262.2	370.6	275.7	230.5
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°	12489.0	12489.0	12489.0	12489.0	12489.0	12489.0	12489.0	12489.0	12489.0	12489.0	12489.0
2.5°	12579.4	12556.8	12466.4	12344.4	12217.8	12095.8	12055.1	11969.2	11910.5	11878.8	11915.0
5°	12832.6	12760.2	12547.8	12276.6	11991.8	11684.5	11467.5	11268.6	11124.0	10988.4	11042.6
7.5°	13194.2	13067.6	12701.5	12226.9	11720.6	11209.9	10830.2	10540.9	10346.5	10219.9	10247.1
10°	13614.5	13420.2	12859.7	12150.0	11368.1	10635.8	10188.3	9939.7	9817.7	9749.9	9767.9
12.5°	14098.2	13822.5	13022.4	11973.7	10830.2	9993.9	9686.6	9614.3	9618.8	9623.3	9632.3
15°	14694.8	14310.6	13153.5	11589.5	10129.5	9501.3	9447.0	9564.5	9686.6	9745.3	9740.8
17.5°	15368.3	14825.9	13176.1	10956.7	9442.5	9184.8	9356.6	9609.7	9795.1	9876.4	9894.5
20°	16091.6	15350.3	13013.4	10061.7	8877.5	8927.2	9234.6	9560.0	9763.4	9867.4	9894.5
22.5°	16918.7	15910.8	12624.6	9121.6	8416.4	8647.0	9008.6	9325.0	9537.4	9641.4	9668.5
25°	17863.4	16539.1	12014.4	8330.5	8018.7	8330.5	8692.2	8954.3	9126.1	9221.0	9248.1
27.5°	18912.1	17194.5	11200.8	7702.3	7670.6	8005.1	8303.4	8506.8	8597.2	8669.6	8696.7
30°	19965.3	17791.1	10215.4	7227.6	7367.8	7684.2	7896.6	7987.0	8014.1	8027.7	8059.3
32.5°	21104.4	18306.4	9180.3	6834.4	7078.5	7372.3	7498.8	7539.5	7413.0	7327.1	7354.2
35°	22483.0	18857.9	8167.8	6522.5	6793.7	7046.8	7087.5	7051.4	6902.2	6725.9	6735.0
37.5°	24187.1	19544.9	7358.7	6301.0	6527.0	6694.3	6644.5	6635.5	6649.1	6441.1	6454.7
40°	26275.3	20439.9	6766.6	6129.3	6310.1	6346.2	6206.1	6282.9	6350.7	6034.3	6043.4
42.5°	28594.2	21520.2	6391.4	6011.7	6129.3	6043.4	5826.4	5912.3	5903.3	5487.4	5482.9
45°	30958.2	22695.4	6260.3	5925.9	5962.0	5790.2	5550.7	5573.3	5383.4	5008.3	5021.8
47.5°	33308.6	23956.5	6341.7	5853.5	5754.1	5559.7	5374.4	5275.0	4994.7	4714.5	4714.5
50°	35613.9	25280.9	6640.0	5708.9	5469.3	5356.3	5220.7	5044.4	4746.1	4506.5	4488.5
52.5°	37751.9	26614.4	6974.5	5469.3	5112.2	5180.0	5094.2	4890.7	4596.9	4352.9	4357.4
55°	39776.9	27947.8	7105.6	5139.4	4777.7	5026.4	4976.6	4601.5	4248.9	4050.0	4031.9
57.5°	41982.7	29552.4	6961.0	4719.0	4506.5	4850.1	4660.2	4244.4	4041.0	3891.8	3878.2
60°	45038.3	32070.1	6649.1	4199.2	4248.9	4587.9	4262.5	4090.7	3869.2	3702.0	3692.9
62.5°	50114.4	36766.5	6147.3	3683.9	3946.0	4199.2	4072.6	3900.8	3674.8	3512.1	3512.1
65°	57617.7	43293.5	5202.6	3281.6	3607.0	3819.5	3869.2	3697.4	3462.4	3290.6	3299.7
67.5°	63945.9	47388.7	3937.0	2947.1	3259.0	3512.1	3652.2	3485.0	3236.4	3069.1	3073.7
70°	63597.8	44414.5	3005.9	2617.1	2951.6	3209.3	3390.1	3259.0	2992.3	2834.1	2847.7
72.5°	56487.7	37155.2	2431.8	2282.7	2639.7	2892.9	3109.8	3010.4	2739.2	2585.5	2585.5
75°	41499.0	26374.8	1943.6	1943.6	2251.0	2562.9	2802.5	2739.2	2490.6	2382.1	2350.5
77.5°	17492.8	11065.2	1523.3	1613.7	1871.3	2201.3	2499.6	2522.2	2305.3	2440.9	2214.8
80°	4651.2	3051.1	1161.7	1270.1	1469.0	1817.1	2174.2	2165.1	1930.1	1803.5	1677.0
82.5°	1771.9	1202.3	827.2	895.0	1062.2	1392.2	1722.2	1776.4	1541.4	1333.4	1333.4
85°	682.5	515.3	510.8	537.9	619.3	922.1	1301.8	1347.0	1161.7	985.4	1017.0
87.5°	176.3	153.7	189.8	180.8	284.8	492.7	745.8	772.9	709.7	411.3	587.6
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)