

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: P458386

Luminaire Tested: **GALN-SA9D-740-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9D-740-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 70530 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

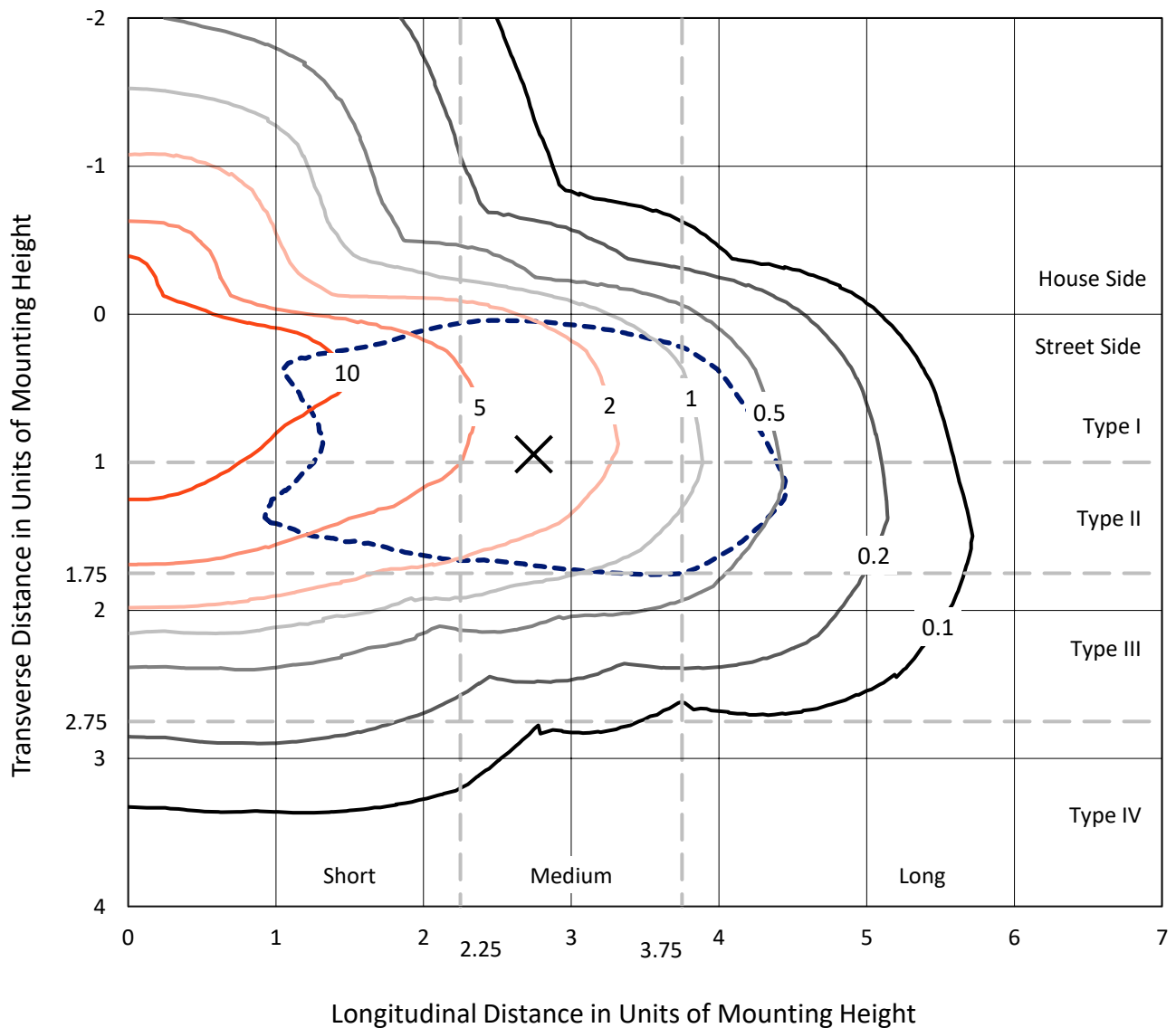
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

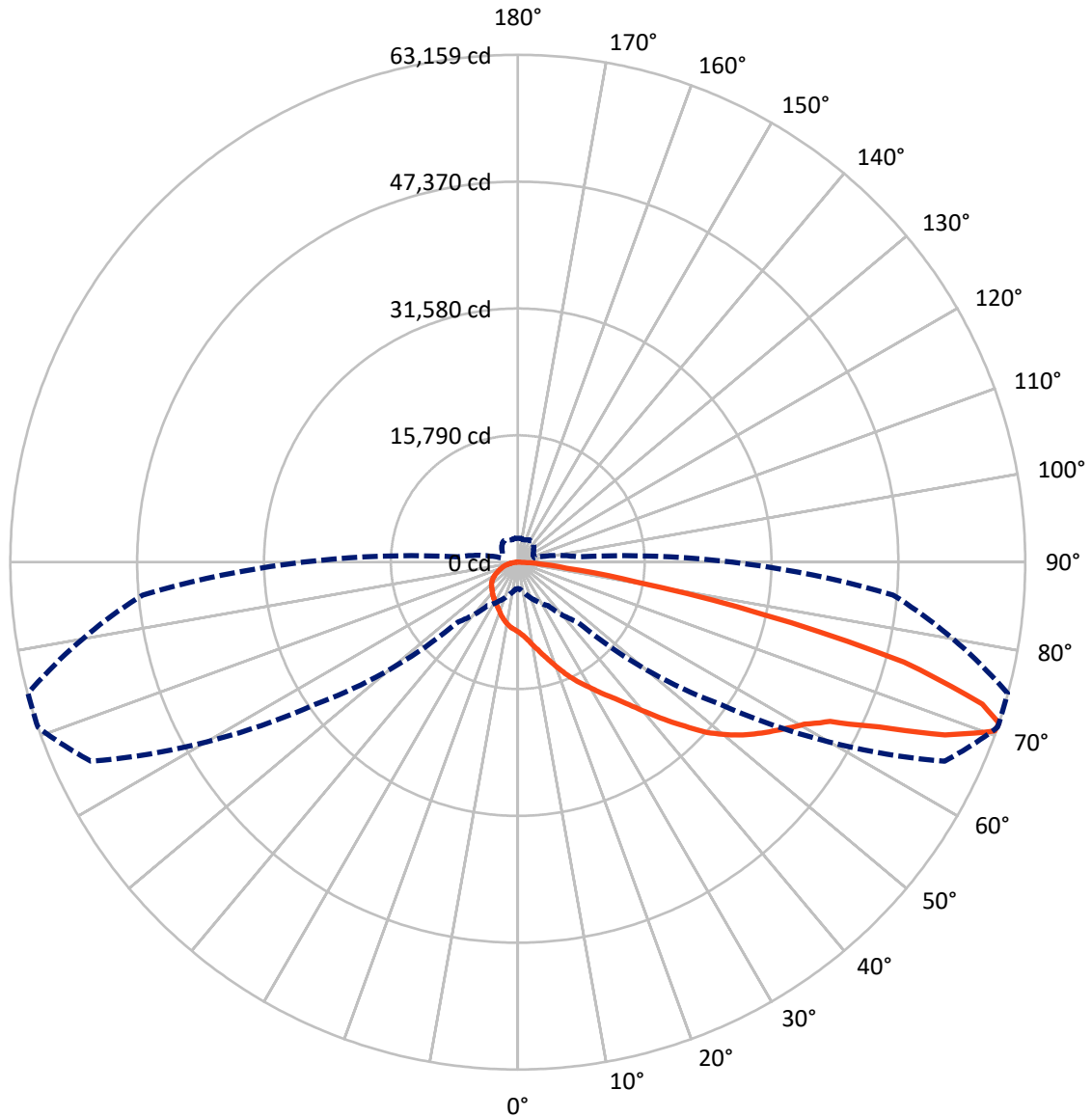
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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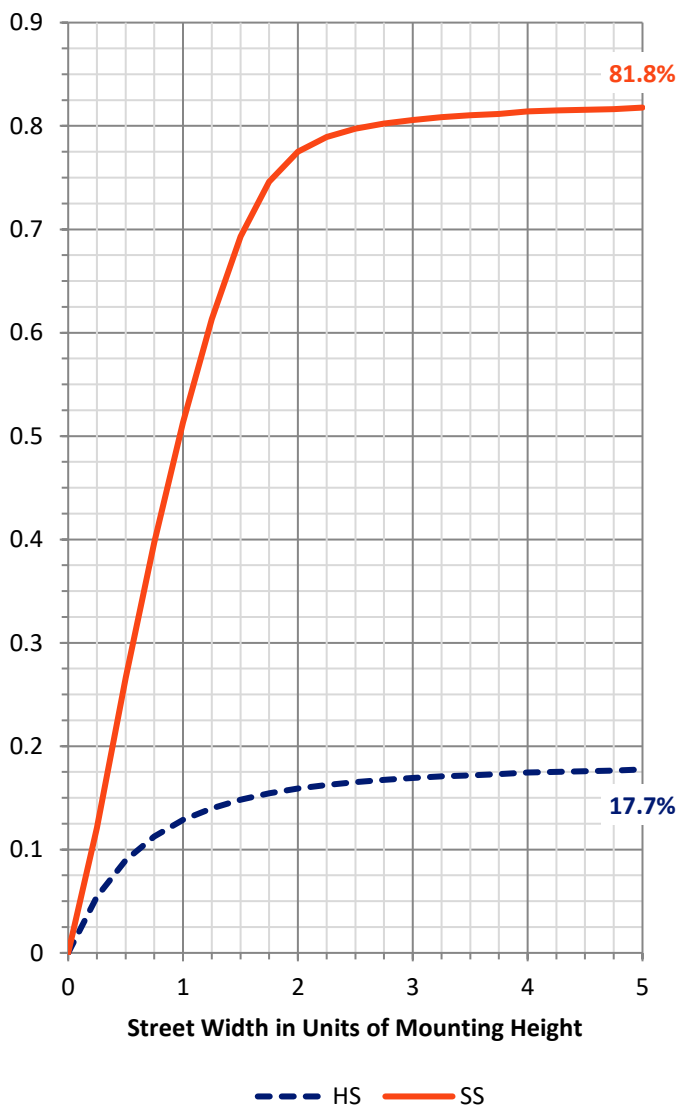
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12684.6	0.0	12684.6
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	57845.4	0.0	57845.4
	% Fixture	82.0	0.0	82.0
Total	Lumens	70530.0	0.0	70530.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	869.1	1.2
10°-20°	2823.8	4.0
20°-30°	4934.7	7.0
30°-40°	7339.8	10.4
40°-50°	10814.3	15.3
50°-60°	15140.1	21.5
60°-70°	16933.7	24.0
70°-80°	10343.8	14.7
80°-90°	1330.6	1.9
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°	70530.0	100.0
0°-180°	70530.0	100.0

Coefficient of Utilization



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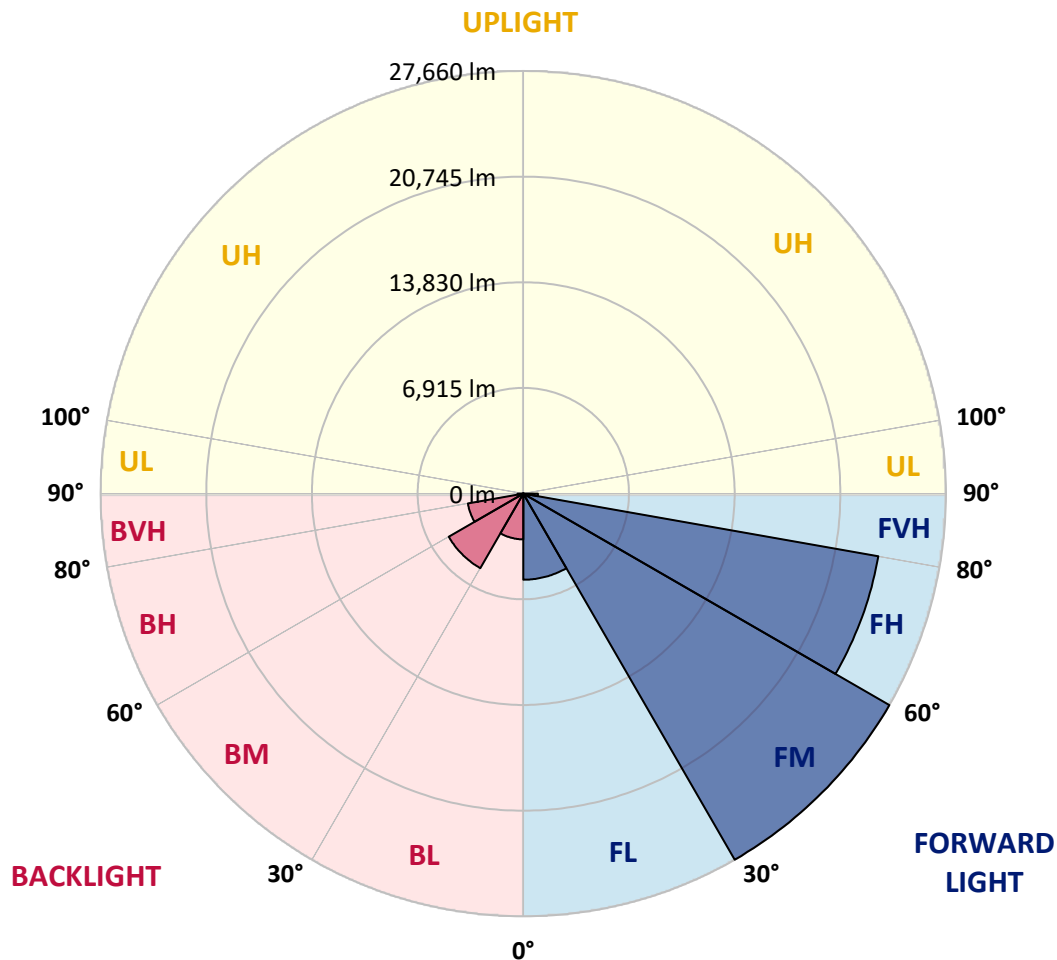
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5635.4	8.0			
FM	(30°-60°)	27660.5	39.2			
FH	(60°-80°)	23592.1	33.4			G5
FVH	(80°-90°)	957.4	1.4			G5
BL	(0°-30°)	2992.3	4.2	B4/5000		
BM	(30°-60°)	5633.7	8.0	B4/8500		
BH	(60°-80°)	3685.4	5.2	B4/5000		G4/5000
BVH	(80°-90°)	373.2	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	8656.2	8656.2	8656.2	8656.2	8656.2	8656.2	8656.2	8656.2	8656.2	8656.2	8656.2
2.5°	9609.8	9563.3	9567.1	9501.2	9416.0	9322.9	9191.1	9074.8	8981.8	8927.5	8768.6
5°	10648.7	10602.2	10544.0	10400.6	10338.6	10109.8	9819.1	9555.5	9353.9	9241.5	8923.6
7.5°	11489.9	11478.2	11462.7	11381.3	11222.4	10904.5	10656.4	10199.0	9900.5	9687.3	9144.6
10°	12009.3	12028.7	12040.3	12055.8	11989.9	11823.2	11482.1	10904.5	10524.6	10253.3	9431.5
12.5°	12272.9	12292.3	12358.2	12501.6	12590.8	12571.4	12292.3	11726.3	11203.0	10846.4	9737.7
15°	12435.7	12466.7	12583.0	12773.0	13071.5	13261.4	13125.7	12602.4	12028.7	11606.2	10102.1
17.5°	12614.0	12648.9	12776.9	13048.2	13439.7	13850.6	13997.9	13548.3	12924.2	12420.2	10509.1
20°	12714.8	12761.4	12943.5	13300.2	13757.6	14354.6	14843.0	14606.6	13924.3	13366.1	10978.2
22.5°	12877.6	12916.4	13071.5	13451.4	13997.9	14746.1	15688.1	15637.7	15036.8	14315.8	11493.7
25°	13319.6	13381.6	13459.1	13687.8	14215.0	15145.4	16389.7	16738.6	16114.5	15308.2	11966.7
27.5°	14153.0	14203.4	14199.5	14230.5	14529.0	15490.4	16998.3	17827.9	17184.4	16312.2	12424.1
30°	15102.7	15122.1	15137.6	15067.9	15133.8	15843.1	17556.6	18905.6	18262.1	17343.3	12823.4
32.5°	16257.9	16296.7	16164.9	15986.6	15932.3	16366.5	18017.9	19983.2	19537.4	18390.0	13218.8
35°	17622.5	17723.2	17455.8	17141.8	16920.8	17118.5	18638.1	21084.1	20843.8	19727.4	13742.1
37.5°	19180.8	19304.8	19056.7	18440.4	18126.4	18180.7	19448.3	22444.8	22495.2	21250.8	14521.3
40°	20456.2	20619.0	20626.7	19754.5	19277.7	19339.7	20475.5	23910.1	24487.7	23134.8	15440.0
42.5°	21297.3	21456.3	21623.0	21111.3	20611.2	20964.0	21673.4	25499.4	26728.3	25421.9	16723.1
45°	22219.9	22363.4	22456.4	22223.8	21944.7	22859.6	23119.3	27189.6	29116.2	27976.5	18126.4
47.5°	23289.9	23448.8	23537.9	23317.0	23212.3	24522.6	24677.6	28767.3	31666.9	30457.5	19677.0
50°	24716.4	24836.6	24790.1	24650.5	24627.2	25797.9	26174.0	30244.2	33771.8	33128.3	21285.7
52.5°	26491.8	26635.3	26685.6	26487.9	26398.8	26708.9	27379.5	31589.4	35686.8	35423.2	23003.0
55°	27565.6	27794.3	28561.9	28872.0	29085.2	27887.4	28678.2	33074.1	37404.1	37842.1	24848.2
57.5°	26189.5	26484.1	28201.3	29751.9	31756.1	30833.5	30519.5	34624.7	39121.4	40187.4	27057.8
60°	22832.4	22898.3	25111.8	27968.8	32000.3	34620.8	34361.1	37090.1	40982.1	42552.1	29969.0
62.5°	15839.3	15978.8	18595.4	23154.2	28984.4	35985.3	40896.8	41346.5	43649.1	46091.3	34237.0
65°	8167.7	7985.5	10369.6	14552.3	21851.7	32744.6	46192.1	49173.1	49432.8	51626.9	40245.6
67.5°	5027.8	5109.2	6225.6	8497.2	12920.3	23797.7	45637.7	58736.3	57367.9	58422.3	45823.8
70°	3775.7	3876.5	4644.0	5814.7	7877.0	13606.4	36702.5	61054.5	62965.6	62694.2	47521.7
71°	3283.4	3388.0	4186.6	5291.4	6617.1	10501.4	30922.6	58627.8	63159.4	63112.9	46882.1
72.5°	2798.8	2864.7	3488.8	4481.2	5578.2	7361.4	23231.7	52580.5	60465.2	62012.0	44598.8
75°	2198.0	2248.4	2527.5	3419.1	4392.0	4520.0	12466.7	39419.9	49661.5	52607.6	37128.9
77.5°	1790.9	1825.8	1969.2	2539.1	3388.0	3202.0	6539.6	25658.4	31112.6	34078.1	21871.1
80°	1422.7	1461.4	1546.7	1721.2	2539.1	2283.2	3120.6	13001.7	15029.1	14998.1	8729.8
82.5°	1104.8	1116.4	1217.2	1263.7	1736.7	1620.4	1690.1	5504.6	6097.7	6299.3	3151.6
85°	697.8	732.7	1077.7	969.1	1038.9	949.7	833.4	2186.3	2694.1	2655.4	1259.9
87.5°	213.2	224.8	364.4	410.9	461.3	414.8	306.2	643.5	786.9	852.8	314.0
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°	8656.2	8656.2	8656.2	8656.2	8656.2	8656.2	8656.2	8656.2	8656.2	8656.2	8656.2
2.5°	8706.6	8663.9	8512.7	8388.7	8272.4	8144.5	8035.9	8004.9	7977.8	7966.2	7962.3
5°	8788.0	8660.0	8361.6	8117.3	7923.5	7745.2	7632.8	7582.4	7532.0	7532.0	7547.5
7.5°	8904.3	8671.7	8210.4	7846.0	7601.8	7435.1	7353.7	7345.9	7357.5	7369.2	7373.1
10°	9032.2	8663.9	7989.4	7535.9	7318.8	7241.3	7245.1	7311.0	7373.1	7419.6	7427.3
12.5°	9156.2	8617.4	7729.7	7245.1	7105.6	7121.1	7229.6	7376.9	7497.1	7563.0	7566.9
15°	9295.8	8543.7	7415.7	6969.9	6923.4	7043.6	7245.1	7470.0	7652.2	7760.7	7772.3
17.5°	9412.1	8419.7	7086.2	6702.4	6760.6	6981.5	7260.6	7551.4	7772.3	7908.0	7931.3
20°	9543.9	8260.8	6745.1	6446.6	6613.3	6911.8	7229.6	7543.6	7772.3	7904.1	7935.1
22.5°	9648.5	8035.9	6419.4	6237.2	6481.5	6826.5	7125.0	7376.9	7563.0	7632.8	7679.3
25°	9691.2	7752.9	6113.2	6066.7	6376.8	6686.9	6888.5	7031.9	7090.1	7082.3	7101.7
27.5°	9667.9	7427.3	5849.6	5931.0	6245.0	6469.8	6570.6	6559.0	6454.3	6357.4	6403.9
30°	9571.0	7039.7	5628.6	5791.5	6074.4	6198.5	6183.0	6031.8	5834.1	5651.9	5663.5
32.5°	9396.6	6621.0	5423.2	5632.5	5834.1	5888.4	5783.7	5586.0	5303.0	5066.6	5031.7
35°	9249.3	6221.7	5241.0	5450.3	5593.8	5566.6	5465.8	5210.0	4954.1	4744.8	4709.9
37.5°	9226.0	5880.6	5066.6	5244.9	5326.3	5287.5	5163.5	4946.4	4853.3	4694.4	4675.0
40°	9350.1	5640.3	4888.2	5027.8	5066.6	5035.5	4899.9	4775.8	4861.1	4822.3	4822.3
42.5°	9687.3	5512.3	4729.3	4810.7	4841.7	4865.0	4768.1	4663.4	4768.1	4589.7	4531.6
45°	10222.3	5516.2	4585.9	4597.5	4690.5	4771.9	4706.0	4551.0	4496.7	4140.1	4070.3
47.5°	11009.2	5648.0	4469.6	4395.9	4562.6	4698.3	4605.3	4380.4	4140.1	3903.6	3861.0
50°	11927.9	5884.5	4364.9	4186.6	4392.0	4605.3	4535.5	4271.9	4023.8	3880.4	3853.2
52.5°	12947.4	6183.0	4237.0	3954.0	4182.7	4562.6	4551.0	4256.4	3915.2	3818.3	3795.1
55°	14207.3	6477.6	4078.1	3682.7	3996.6	4527.7	4508.3	4128.4	3892.0	3822.2	3814.5
57.5°	15672.6	6904.0	3849.3	3407.4	3783.4	4384.3	4341.7	4050.9	3814.5	3764.1	3760.2
60°	18033.4	7566.9	3523.7	3155.4	3566.4	4132.3	4186.6	3919.1	3690.4	3678.8	3674.9
62.5°	21138.4	8497.2	3186.5	2895.7	3314.4	3806.7	3961.8	3740.8	3558.6	3616.8	3624.5
65°	25425.8	9280.3	2837.6	2674.8	3035.3	3492.7	3748.6	3574.1	3411.3	3523.7	3523.7
67.5°	28220.7	9295.8	2519.7	2446.1	2752.3	3229.1	3523.7	3376.4	3221.3	3411.3	3419.1
70°	27639.3	8144.5	2256.1	2205.7	2477.1	2946.1	3275.6	3159.3	2981.0	3151.6	3089.5
71°	26701.2	7504.9	2151.4	2112.7	2368.5	2810.4	3159.3	3062.4	2884.1	2996.5	2961.6
72.5°	25204.8	6516.4	1980.9	1988.6	2205.7	2639.9	2996.5	2895.7	2717.4	2779.4	2767.8
75°	21305.1	5690.7	1694.0	1728.9	1895.6	2349.1	2670.9	2593.4	2411.2	2411.2	2399.5
77.5°	13319.6	3977.3	1407.2	1426.5	1608.7	2011.9	2294.9	2229.0	2054.5	1996.4	1980.9
80°	4969.6	2054.5	1100.9	1124.2	1236.6	1585.5	1899.5	1837.4	1659.1	1593.2	1531.2
82.5°	1880.1	1031.1	810.2	790.8	911.0	1209.5	1488.6	1414.9	1275.4	1116.4	1069.9
85°	709.4	511.7	496.2	480.7	535.0	717.1	922.6	907.1	759.8	647.4	635.7
87.5°	186.1	166.7	193.8	143.4	151.2	135.7	139.6	58.1	27.1	11.6	7.8
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)