

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: P321739

Luminaire Tested: **GLEON-SA5D-827-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5D-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21926 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 320
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

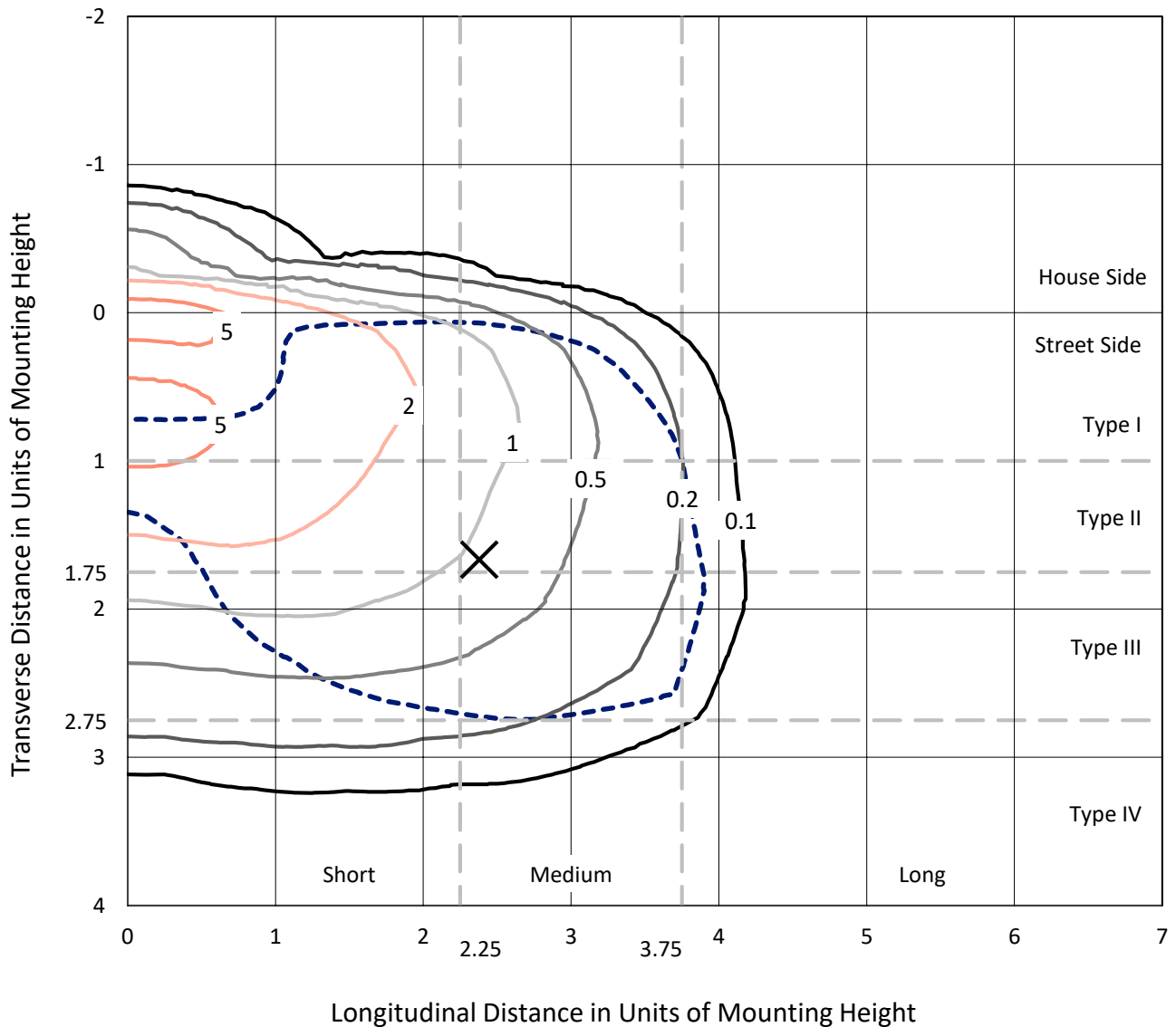




REPORT NUMBER: P321739
 CATALOG NUMBER: GLEON-SA5D-827-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

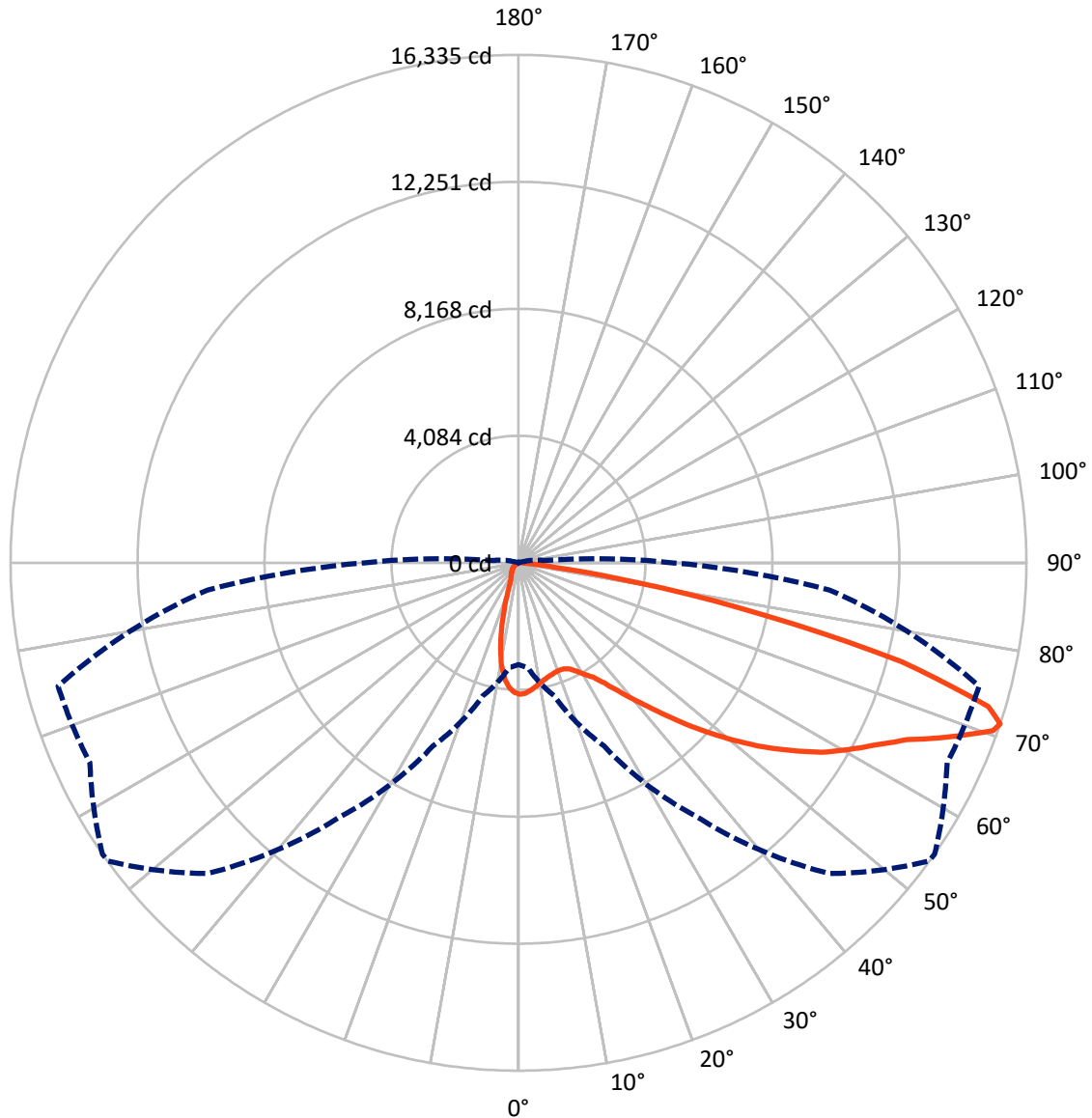
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P321739
CATALOG NUMBER: GLEON-SA5D-827-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P321739
 CATALOG NUMBER: GLEON-SA5D-827-U-T3R-HSS

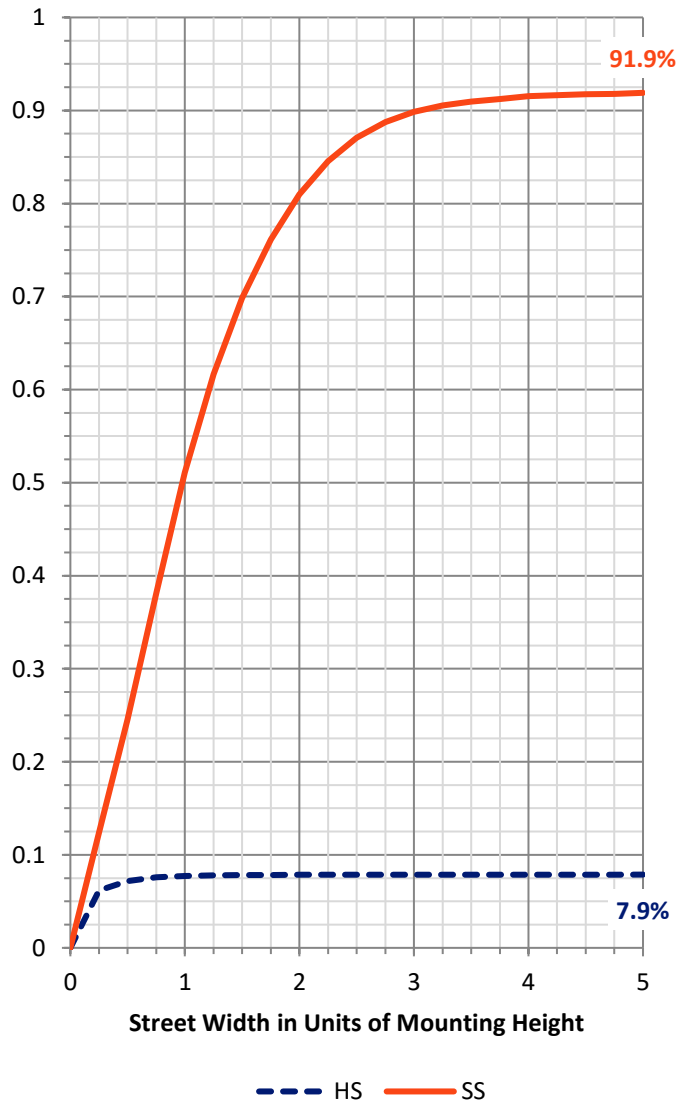
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1735.9	0.0	1735.9
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	20190.1	0.0	20190.1
	% Fixture	92.1	0.0	92.1
Total	Lumens	21926.0	0.0	21926.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.5	1.6
10°-20°	813.9	3.7
20°-30°	1308.0	6.0
30°-40°	2222.4	10.1
40°-50°	3449.5	15.7
50°-60°	4637.7	21.2
60°-70°	5673.4	25.9
70°-80°	3317.1	15.1
80°-90°	143.4	0.7
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°	21926.0	100.0
0°-180°	21926.0	100.0

Coefficient of Utilization

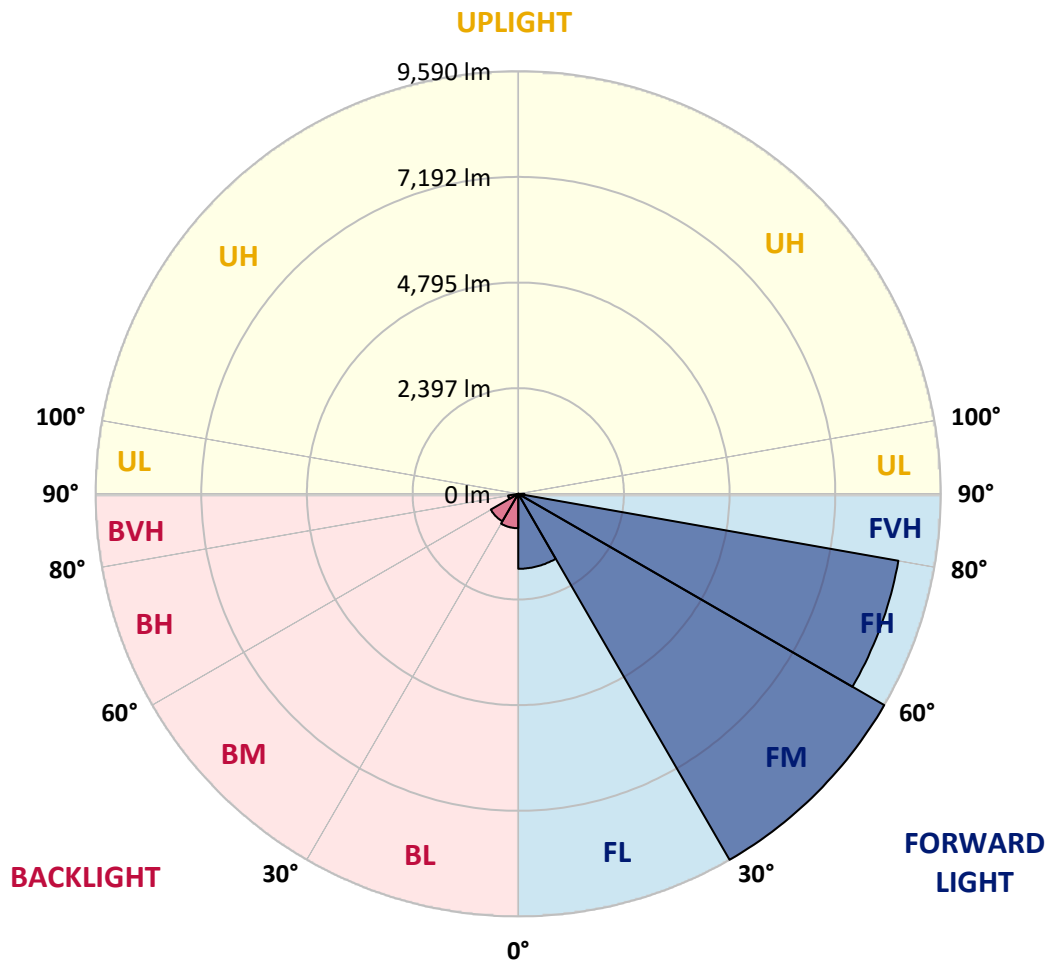


REPORT NUMBER: P321739
 CATALOG NUMBER: GLEON-SA5D-827-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1701.2	7.8			
FM (30°-60°)	9589.8	43.7			
FH (60°-80°)	8758.0	39.9			G4/12000
FVH (80°-90°)	141.1	0.6			G2/225
BL (0°-30°)	781.4	3.6	B2/1000		
BM (30°-60°)	719.8	3.3	B1/1000		
BH (60°-80°)	232.6	1.1	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Medium





REPORT NUMBER: P321739

CATALOG NUMBER: GLEON-SA5D-827-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4228.5	4228.5	4228.5	4228.5	4228.5	4228.5	4228.5	4228.5	4228.5	4228.5	4228.5
2.5°	4104.5	4109.4	4127.1	4135.0	4153.7	4185.2	4200.9	4201.9	4227.5	4237.4	4245.2
5°	3814.0	3843.6	3873.1	3904.6	3961.7	4037.5	4112.3	4119.2	4201.9	4263.0	4295.5
7.5°	3564.0	3590.5	3626.0	3676.2	3756.9	3876.1	4001.1	4015.9	4172.4	4311.2	4384.1
10°	3307.0	3328.7	3379.9	3453.7	3564.9	3724.4	3892.8	3917.4	4145.8	4376.2	4504.2
12.5°	3032.3	3045.1	3107.1	3213.5	3376.9	3579.7	3801.2	3833.7	4129.1	4451.0	4645.9
15°	2823.6	2829.5	2888.6	2998.8	3185.9	3449.8	3730.3	3769.7	4133.0	4540.6	4800.5
17.5°	2770.4	2773.4	2804.9	2880.7	3046.1	3333.6	3674.2	3722.5	4144.8	4628.2	4956.1
20°	2986.0	2965.4	2932.9	2921.1	2992.0	3263.7	3640.8	3694.9	4160.6	4706.0	5095.9
22.5°	3577.7	3516.7	3381.8	3201.7	3092.4	3268.6	3649.6	3703.8	4210.8	4801.5	5257.3
25°	4455.9	4371.3	4141.9	3787.4	3446.8	3410.4	3723.4	3778.6	4308.3	4915.7	5411.9
27.5°	5455.2	5371.5	5090.9	4584.9	4004.0	3691.0	3892.8	3944.0	4453.0	5017.1	5530.0
30°	6412.2	6388.5	6057.7	5482.8	4705.0	4145.8	4111.4	4154.7	4560.3	5078.1	5623.6
32.5°	7223.4	7186.0	6920.2	6361.0	5507.4	4692.2	4368.3	4381.1	4641.0	5156.9	5745.7
35°	7975.6	7929.3	7696.0	7167.3	6330.5	5359.7	4764.1	4745.4	4817.2	5315.4	5922.9
37.5°	8632.3	8674.6	8415.7	7912.6	7068.8	6053.8	5297.7	5241.6	5092.9	5573.4	6179.8
40°	9181.6	9181.6	9046.7	8627.3	7866.3	6771.5	5901.2	5827.4	5507.4	5971.1	6505.7
42.5°	9379.5	9421.8	9472.1	9234.8	8580.1	7517.8	6573.6	6496.8	6091.2	6535.2	6917.2
45°	9391.3	9458.3	9715.2	9714.2	9224.9	8259.1	7331.7	7295.3	6839.5	7259.8	7427.2
47.5°	9224.9	9308.6	9732.0	9972.2	9735.9	8949.3	8160.7	8115.4	7718.6	8147.9	7960.8
50°	8968.0	9060.5	9552.8	10073.6	10083.4	9549.8	9033.9	8966.0	8686.4	9162.9	8512.1
52.5°	8508.2	8687.4	9392.3	10097.2	10311.8	10068.7	9864.9	9835.3	9769.4	10140.5	8951.2
55°	7524.7	7723.5	8989.6	10105.1	10523.5	10528.4	10643.6	10651.5	10784.4	11054.2	9278.1
57.5°	7060.0	7172.2	8286.7	10142.5	10837.6	11050.2	11437.2	11498.2	11704.0	11921.5	9651.2
60°	6767.6	6900.5	7940.1	10091.3	11330.8	11734.5	12172.6	12193.3	12413.8	12816.5	10156.3
62.5°	6534.3	6665.2	7721.6	9894.4	11885.1	12557.5	12891.3	12893.3	13058.7	13882.7	10730.3
65°	5958.3	6068.6	7279.5	9672.9	12251.4	13371.7	13726.2	13713.4	13848.2	15007.0	11396.8
67.5°	5125.4	5210.1	6376.7	8833.1	12113.5	14112.1	14986.3	14944.0	14780.6	15978.7	11658.7
70°	3962.7	3993.2	5026.0	7361.2	10821.8	14396.6	16204.2	16182.5	15352.6	15804.5	10698.8
71°	3275.5	3375.9	4429.3	6496.8	9956.4	14133.8	16322.3	16335.1	15208.8	15329.9	10038.2
72.5°	1902.1	1987.7	3210.5	4989.5	8453.1	13037.0	15710.0	15802.5	14537.4	13943.7	8574.2
75°	407.6	436.1	1190.3	2415.0	4649.9	9137.3	12400.0	12729.8	11848.7	9485.8	5167.7
77.5°	283.5	306.2	510.0	1095.8	1536.8	4515.0	7702.9	8075.0	7078.7	3564.9	1654.0
80°	224.5	250.1	397.7	541.5	415.5	1456.1	3608.3	3835.7	2360.9	795.5	278.6
82.5°	125.0	148.7	310.1	292.4	159.5	276.6	1010.1	1142.0	472.6	160.5	66.0
85°	36.4	44.3	199.9	212.7	67.9	53.2	172.3	213.6	89.6	42.3	29.5
87.5°	0.0	0.0	96.5	81.7	19.7	7.9	15.8	17.7	17.7	17.7	19.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P321739

CATALOG NUMBER: GLEON-SA5D-827-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4228.5	4228.5	4228.5	4228.5	4228.5	4228.5	4228.5	4228.5	4228.5	4228.5	4228.5
2.5°	4245.2	4252.1	4227.5	4195.0	4160.6	4118.2	4073.9	4039.5	4038.5	4021.8	4005.0
5°	4297.4	4293.5	4225.6	4122.2	4000.1	3873.1	3752.0	3615.2	3569.9	3513.7	3495.0
7.5°	4393.9	4366.3	4222.6	3996.2	3728.4	3462.6	3187.9	2911.2	2793.1	2686.8	2668.0
10°	4515.0	4462.8	4203.9	3807.1	3315.9	2825.6	2411.1	2035.0	1869.6	1742.6	1736.7
12.5°	4641.0	4561.3	4151.7	3521.6	2775.4	2086.2	1608.7	1238.5	1100.7	1012.1	1020.0
15°	4772.9	4653.8	4039.5	3136.7	2160.0	1415.7	988.5	770.9	715.7	693.1	699.0
17.5°	4907.8	4717.8	3882.9	2673.0	1552.6	913.6	684.2	623.2	623.2	628.1	630.1
20°	5025.0	4752.3	3652.6	2153.1	1052.5	665.5	598.6	589.7	594.6	602.5	603.5
22.5°	5141.2	4754.2	3352.3	1626.4	736.4	582.8	570.0	566.1	569.1	577.9	578.9
25°	5235.7	4730.6	2976.2	1156.8	587.8	549.4	543.5	541.5	543.5	554.3	554.3
27.5°	5274.1	4645.0	2517.4	813.2	526.7	511.9	510.0	511.9	514.9	522.8	523.8
30°	5278.0	4495.3	2017.3	588.7	477.5	461.7	465.7	472.6	469.6	467.6	469.6
32.5°	5287.8	4322.0	1529.9	484.4	436.1	411.5	406.6	406.6	394.8	387.9	384.0
35°	5320.3	4118.2	1109.6	435.2	393.8	365.3	346.6	324.9	302.2	290.4	287.5
37.5°	5371.5	3904.6	794.5	402.7	356.4	323.9	288.5	250.1	217.6	208.7	208.7
40°	5465.1	3684.1	587.8	377.1	326.9	286.5	233.3	183.1	153.6	148.7	148.7
42.5°	5612.7	3451.7	468.6	354.4	301.3	248.1	178.2	132.9	111.3	108.3	107.3
45°	5766.3	3195.7	409.6	332.8	273.7	203.8	131.9	98.5	85.7	82.7	82.7
47.5°	5919.9	2923.0	381.0	312.1	247.1	158.5	98.5	77.8	71.9	71.9	72.9
50°	6049.9	2638.5	360.3	289.4	212.7	120.1	77.8	66.0	64.0	67.9	68.9
52.5°	6082.4	2358.9	334.7	260.9	170.3	91.6	64.0	58.1	58.1	58.1	58.1
55°	6062.7	2142.3	301.3	225.5	126.0	72.9	55.1	51.2	50.2	50.2	50.2
57.5°	6129.6	2014.3	241.2	175.2	90.6	59.1	48.2	45.3	43.3	42.3	42.3
60°	6264.5	1930.6	172.3	126.0	67.9	49.2	41.3	38.4	35.4	33.5	33.5
62.5°	6443.7	1857.8	128.0	93.5	52.2	39.4	34.5	31.5	27.6	25.6	25.6
65°	6581.5	1727.8	97.5	69.9	39.4	31.5	26.6	25.6	19.7	17.7	16.7
67.5°	6370.8	1442.3	78.8	51.2	29.5	24.6	20.7	19.7	11.8	9.8	9.8
70°	5464.1	1004.2	63.0	37.4	21.7	19.7	16.7	12.8	8.9	7.9	7.9
71°	4955.1	838.8	57.1	31.5	18.7	18.7	15.8	10.8	7.9	6.9	6.9
72.5°	4116.3	595.6	48.2	24.6	16.7	19.7	16.7	9.8	7.9	6.9	5.9
75°	2389.4	249.1	33.5	16.7	12.8	23.6	21.7	8.9	5.9	4.9	4.9
77.5°	718.7	91.6	18.7	10.8	9.8	20.7	24.6	7.9	3.0	1.0	1.0
80°	130.9	39.4	11.8	6.9	6.9	12.8	18.7	3.9	0.0	0.0	0.0
82.5°	46.3	19.7	6.9	3.9	3.0	5.9	8.9	0.0	0.0	0.0	0.0
85°	26.6	13.8	3.9	2.0	0.0	1.0	2.0	0.0	0.0	0.0	0.0
87.5°	17.7	3.9	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	0.0

(END OF REPORT)