

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: P458983

Luminaire Tested: **GALN-SA5A-735-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458983
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17460 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

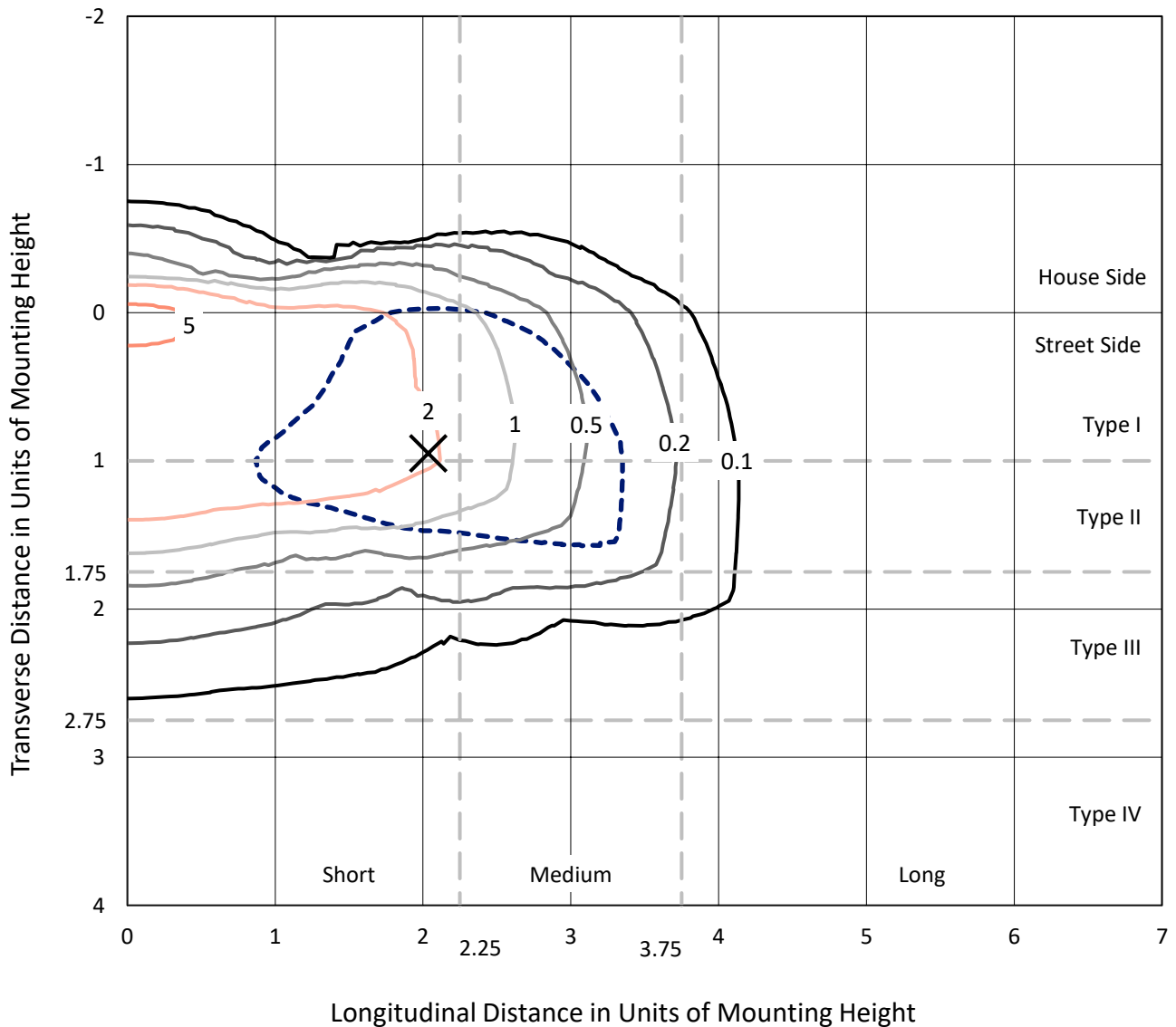
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458983
 CATALOG NUMBER: GALN-SA5A-735-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

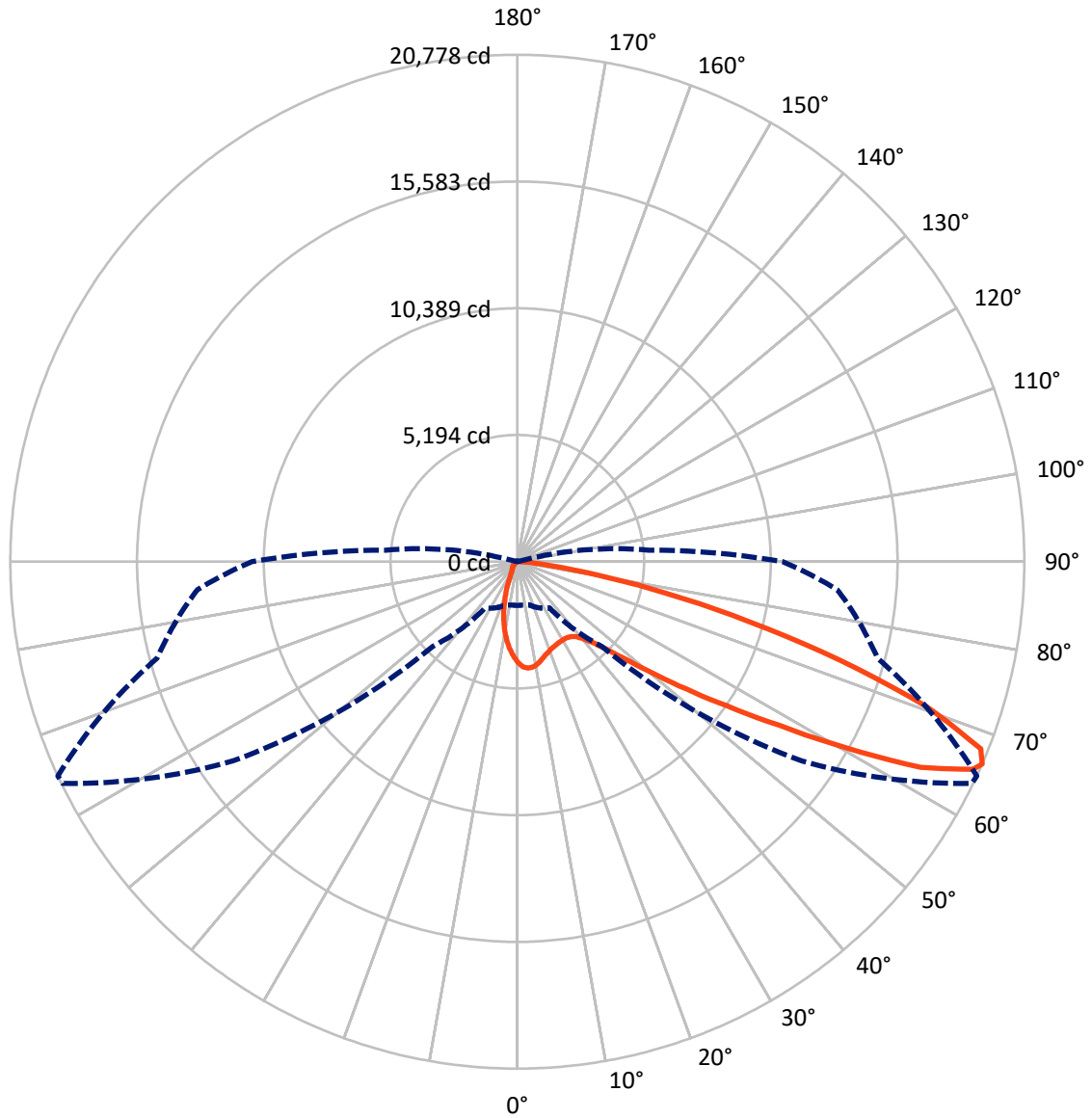
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - N/A

REPORT NUMBER: P458983
CATALOG NUMBER: GALN-SA5A-735-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P458983
 CATALOG NUMBER: GALN-SA5A-735-U-SL2-HSS

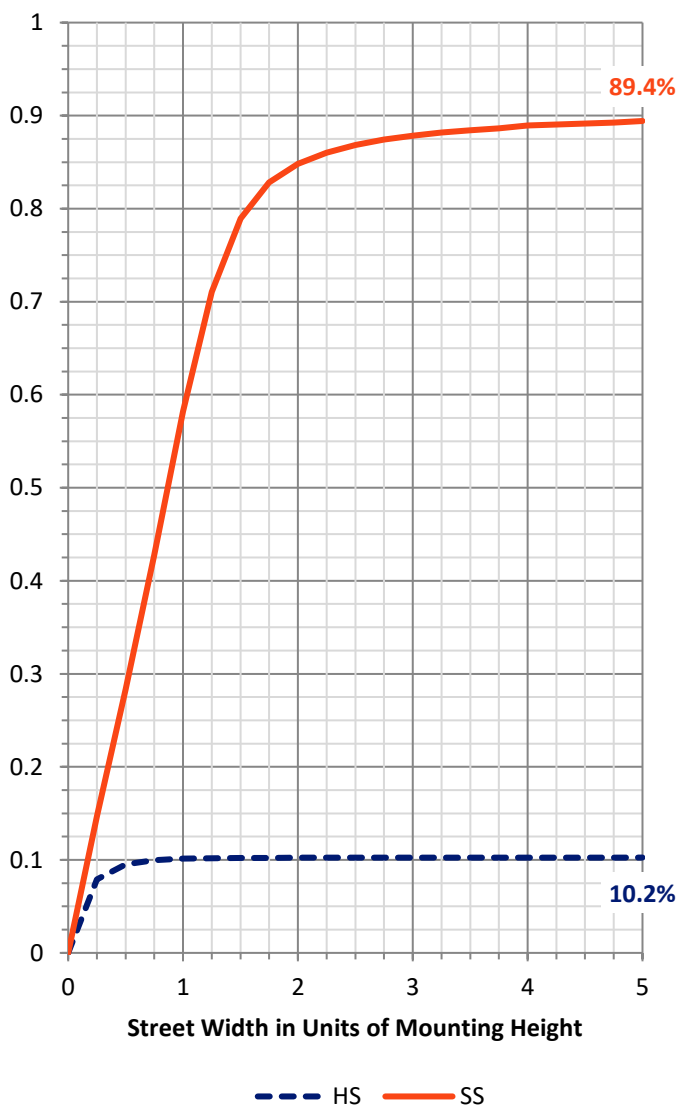
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1805.6	0.0	1805.6
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	15654.4	0.0	15654.4
	% Fixture	89.7	0.0	89.7
Total	Lumens	17460.0	0.0	17460.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.6	1.9
10°-20°	737.8	4.2
20°-30°	1056.9	6.1
30°-40°	1543.7	8.8
40°-50°	2588.5	14.8
50°-60°	4319.8	24.7
60°-70°	4585.4	26.3
70°-80°	2076.7	11.9
80°-90°	212.5	1.2
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°	17460.0	100.0
0°-180°	17460.0	100.0



REPORT NUMBER: P458983

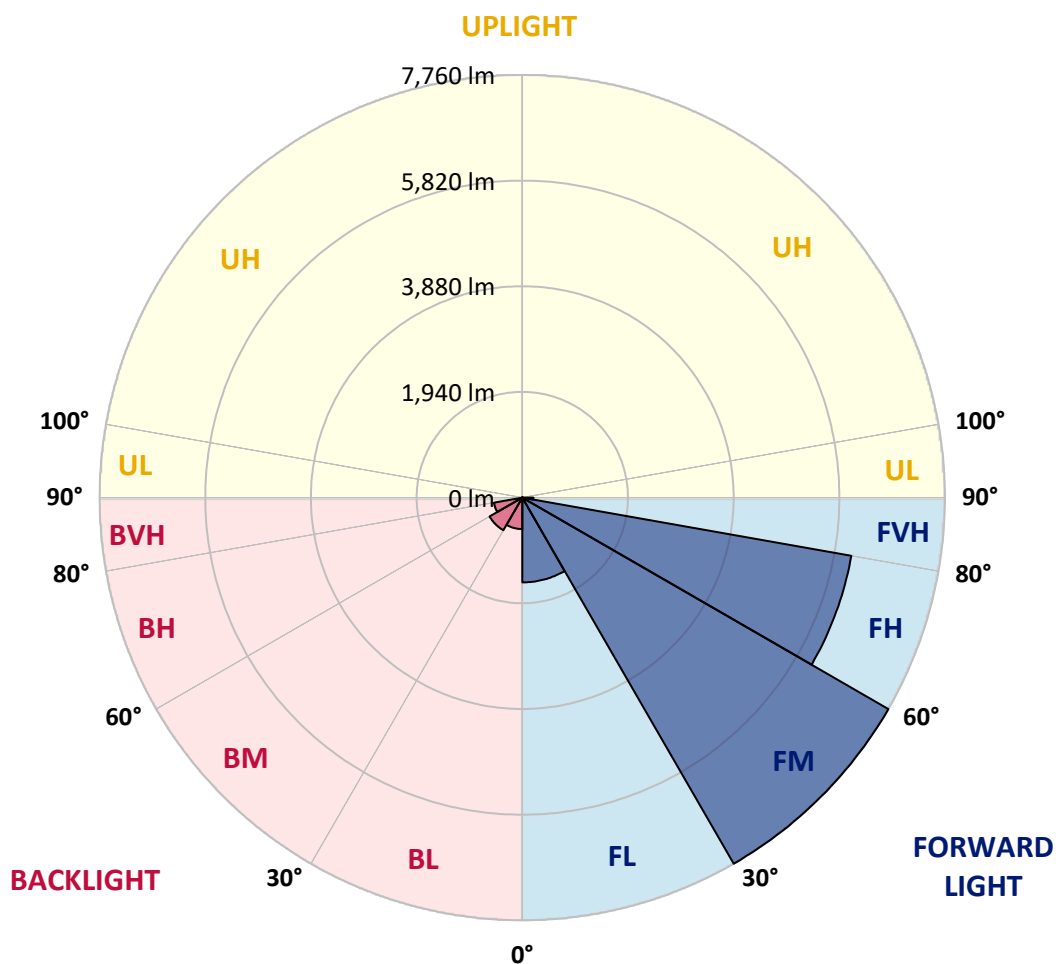
CATALOG NUMBER: GALN-SA5A-735-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1555.7	8.9			
FM (30°-60°)	7759.6	44.4			
FH (60°-80°)	6133.3	35.1			G3/7500
FVH (80°-90°)	205.7	1.2			G2/225
BL (0°-30°)	577.6	3.3	B2/1000		
BM (30°-60°)	692.5	4.0	B1/1000		
BH (60°-80°)	528.8	3.0	B2/1000		G2/1000
BVH (80°-90°)	6.8	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-G3

Type II Short





REPORT NUMBER: P458983

CATALOG NUMBER: GALN-SA5A-735-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4140.4	4140.4	4140.4	4140.4	4140.4	4140.4	4140.4	4140.4	4140.4	4140.4	4140.4
2.5°	4363.3	4368.0	4373.9	4382.2	4388.1	4370.4	4345.6	4317.3	4311.4	4251.3	4178.1
5°	4129.8	4136.9	4188.8	4217.1	4280.7	4338.5	4375.1	4379.8	4377.4	4320.8	4204.1
7.5°	3797.2	3817.3	3868.0	3917.5	4036.6	4146.3	4276.0	4366.8	4372.7	4357.4	4212.3
10°	3527.2	3540.2	3566.1	3664.0	3763.0	3930.5	4112.1	4283.1	4297.3	4358.6	4205.3
12.5°	3316.1	3335.0	3366.8	3442.3	3561.4	3719.4	3925.8	4155.7	4185.2	4336.2	4185.2
15°	3168.7	3178.1	3210.0	3284.3	3399.8	3546.1	3754.8	4022.5	4048.4	4306.7	4181.7
17.5°	3099.1	3109.7	3132.1	3191.1	3286.6	3422.2	3626.2	3915.2	3948.2	4287.8	4194.7
20°	3118.0	3127.4	3128.6	3159.3	3224.1	3338.5	3531.9	3814.9	3857.4	4276.0	4215.9
22.5°	3225.3	3226.5	3212.3	3198.2	3220.6	3303.1	3474.1	3751.3	3794.9	4273.7	4240.6
25°	3385.7	3389.2	3365.6	3316.1	3271.3	3313.7	3461.2	3710.0	3748.9	4267.8	4256.0
27.5°	3607.4	3606.2	3599.1	3516.6	3389.2	3360.9	3471.8	3687.6	3720.6	4251.3	4261.9
30°	3917.5	3908.1	3892.8	3799.6	3605.0	3475.3	3516.6	3673.4	3704.1	4227.7	4246.5
32.5°	4223.0	4258.3	4256.0	4167.5	3924.6	3679.3	3609.7	3692.3	3714.7	4212.3	4224.1
35°	4579.1	4577.9	4668.7	4635.7	4351.5	3939.9	3768.9	3754.8	3772.5	4223.0	4213.5
37.5°	4909.3	4940.0	5081.5	5115.7	4856.2	4307.9	3994.2	3889.2	3895.1	4294.9	4239.5
40°	5320.9	5379.8	5590.9	5705.3	5476.5	4853.9	4326.7	4135.7	4136.9	4471.8	4337.3
42.5°	5851.5	5944.7	6141.6	6332.7	6210.0	5500.1	4825.6	4526.0	4523.7	4783.1	4561.4
45°	6496.6	6561.4	6785.5	7088.6	7010.7	6402.2	5552.0	5131.0	5100.3	5293.7	4958.8
47.5°	7053.2	7141.6	7369.2	7714.8	8068.6	7503.7	6419.9	5962.4	5942.3	6106.2	5640.4
50°	7296.1	7374.0	7613.4	8098.0	8955.4	8949.5	7712.4	7175.8	7141.6	7230.1	6694.7
52.5°	7029.6	7102.7	7344.5	7948.3	9372.8	10711.3	9585.1	8698.3	8657.0	8543.8	7954.2
55°	6116.9	6177.0	6534.3	7227.7	9212.4	11885.8	12165.3	10579.2	10418.8	9979.0	9379.9
57.5°	4870.4	4839.7	5061.4	5866.9	8271.4	12279.7	14814.0	12922.4	12635.9	11219.6	10586.3
60°	3375.1	3469.4	3559.0	4089.7	6219.5	11596.9	16461.4	15868.2	15490.9	12440.1	11742.0
62.5°	2481.2	2543.7	2602.6	2847.9	3910.5	9259.6	16752.7	18894.2	18559.3	13736.1	12844.6
65°	1962.3	1967.0	1990.6	2232.4	2576.7	6021.3	15352.9	20600.6	20514.5	14983.8	13291.5
66°	1787.8	1788.9	1825.5	2084.9	2312.5	4903.4	14231.4	20730.4	20777.5	15283.3	13160.6
67.5°	1562.5	1557.8	1610.9	1873.9	2106.2	3535.4	12224.3	20204.4	20483.9	15513.3	12690.1
70°	1211.1	1205.2	1270.1	1572.0	1939.9	2358.5	8125.2	17348.2	17798.7	15042.7	11227.8
72.5°	806.6	811.3	922.2	1240.6	1851.5	2076.7	4888.1	13197.2	13834.0	12422.4	8832.7
75°	470.5	478.8	605.0	922.2	1607.3	1980.0	2766.6	9410.6	9817.4	8578.0	5502.5
77.5°	246.5	250.0	338.4	608.5	1232.3	1838.5	1843.2	6011.9	6202.9	4168.7	2178.1
80°	130.9	127.4	181.6	366.8	847.9	1614.4	1495.3	3182.8	3309.0	1238.2	550.7
82.5°	49.5	54.2	96.7	240.6	501.2	1159.2	1287.8	1406.9	1363.2	272.4	231.1
85°	9.4	11.8	41.3	142.7	252.4	484.7	949.3	689.9	639.2	102.6	133.3
87.5°	1.2	2.4	11.8	34.2	36.6	163.9	280.7	191.0	165.1	37.7	55.4
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: P458983
 CATALOG NUMBER: GALN-SA5A-735-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4140.4	4140.4	4140.4	4140.4	4140.4	4140.4	4140.4	4140.4	4140.4	4140.4	4140.4
2.5°	4142.8	4110.9	4004.8	3899.8	3792.5	3695.8	3629.8	3522.5	3495.4	3456.4	3434.0
5°	4134.5	4060.2	3856.2	3633.3	3425.8	3201.7	3030.7	2865.6	2777.2	2732.4	2715.9
7.5°	4110.9	3993.0	3674.6	3325.5	2993.0	2658.1	2366.8	2145.1	2002.4	1904.5	1838.5
10°	4063.8	3901.0	3463.5	2983.5	2481.2	2039.0	1669.8	1389.2	1172.2	1103.8	1106.2
12.5°	4015.4	3798.4	3227.7	2603.8	1981.2	1423.4	1031.9	810.2	706.4	672.2	665.1
15°	3970.6	3700.5	2996.5	2235.9	1475.3	922.2	665.1	587.3	559.0	553.1	551.9
17.5°	3947.0	3609.7	2750.1	1814.9	1029.5	626.2	533.0	511.8	503.5	497.7	495.3
20°	3927.0	3530.7	2514.2	1421.0	704.0	513.0	477.6	457.6	443.4	437.5	434.0
22.5°	3912.8	3449.4	2270.1	1100.3	538.9	455.2	423.4	397.4	377.4	370.3	365.6
25°	3891.6	3359.7	2023.6	804.3	454.0	404.5	367.9	337.3	311.3	298.4	296.0
27.5°	3860.9	3258.3	1753.6	595.5	405.7	359.7	314.9	277.1	251.2	237.0	238.2
30°	3811.4	3152.2	1483.5	472.9	366.8	313.7	265.3	228.8	204.0	193.4	192.2
32.5°	3752.4	3023.6	1235.9	405.7	331.4	272.4	221.7	189.9	171.0	162.7	161.6
35°	3697.0	2893.9	983.5	364.4	294.8	234.7	186.3	159.2	145.0	138.0	139.2
37.5°	3666.3	2778.4	766.5	331.4	265.3	201.7	160.4	136.8	123.8	117.9	116.7
40°	3686.4	2684.0	609.7	301.9	232.3	173.4	138.0	117.9	105.0	96.7	96.7
42.5°	3780.7	2642.7	491.8	273.6	201.7	149.8	120.3	101.4	87.3	79.0	80.2
45°	4068.5	2686.4	411.6	247.6	173.4	129.7	103.8	83.7	70.8	64.9	63.7
47.5°	4546.1	2850.3	356.1	220.5	148.6	110.9	87.3	69.6	56.6	51.9	50.7
50°	5381.0	3188.7	314.9	193.4	126.2	94.3	71.9	55.4	44.8	40.1	40.1
52.5°	6529.6	3927.0	285.4	162.7	106.1	80.2	59.0	44.8	35.4	31.8	30.7
55°	7730.1	4705.3	270.1	136.8	88.4	66.0	47.2	35.4	27.1	23.6	22.4
57.5°	8884.6	5316.1	252.4	110.9	70.8	50.7	36.6	27.1	18.9	16.5	15.3
60°	9991.9	5810.3	214.6	88.4	55.4	36.6	27.1	18.9	13.0	10.6	10.6
62.5°	10982.5	6098.0	168.6	70.8	42.5	25.9	17.7	14.2	9.4	7.1	7.1
65°	11098.1	5724.2	127.4	54.2	30.7	16.5	10.6	10.6	7.1	4.7	4.7
66°	10865.8	5406.9	112.0	49.5	27.1	14.2	9.4	8.3	5.9	3.5	3.5
67.5°	10346.9	4865.7	96.7	42.5	22.4	10.6	7.1	7.1	4.7	2.4	2.4
70°	8940.0	3974.1	76.7	31.8	16.5	8.3	4.7	4.7	3.5	2.4	2.4
72.5°	6813.8	2967.0	62.5	23.6	11.8	5.9	3.5	3.5	3.5	2.4	2.4
75°	4109.7	1597.9	48.3	17.7	10.6	4.7	2.4	3.5	4.7	3.5	2.4
77.5°	1514.2	543.6	37.7	14.2	8.3	4.7	2.4	2.4	4.7	3.5	3.5
80°	371.5	141.5	27.1	11.8	8.3	4.7	2.4	2.4	4.7	4.7	4.7
82.5°	172.2	60.1	18.9	10.6	8.3	4.7	2.4	2.4	3.5	4.7	4.7
85°	99.1	28.3	15.3	11.8	8.3	4.7	2.4	2.4	3.5	4.7	4.7
87.5°	40.1	14.2	14.2	11.8	9.4	5.9	2.4	2.4	2.4	3.5	3.5
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)