

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: P532451

Luminaire Tested: **GALN-SA7D-740-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532451
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7D-740-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31785 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

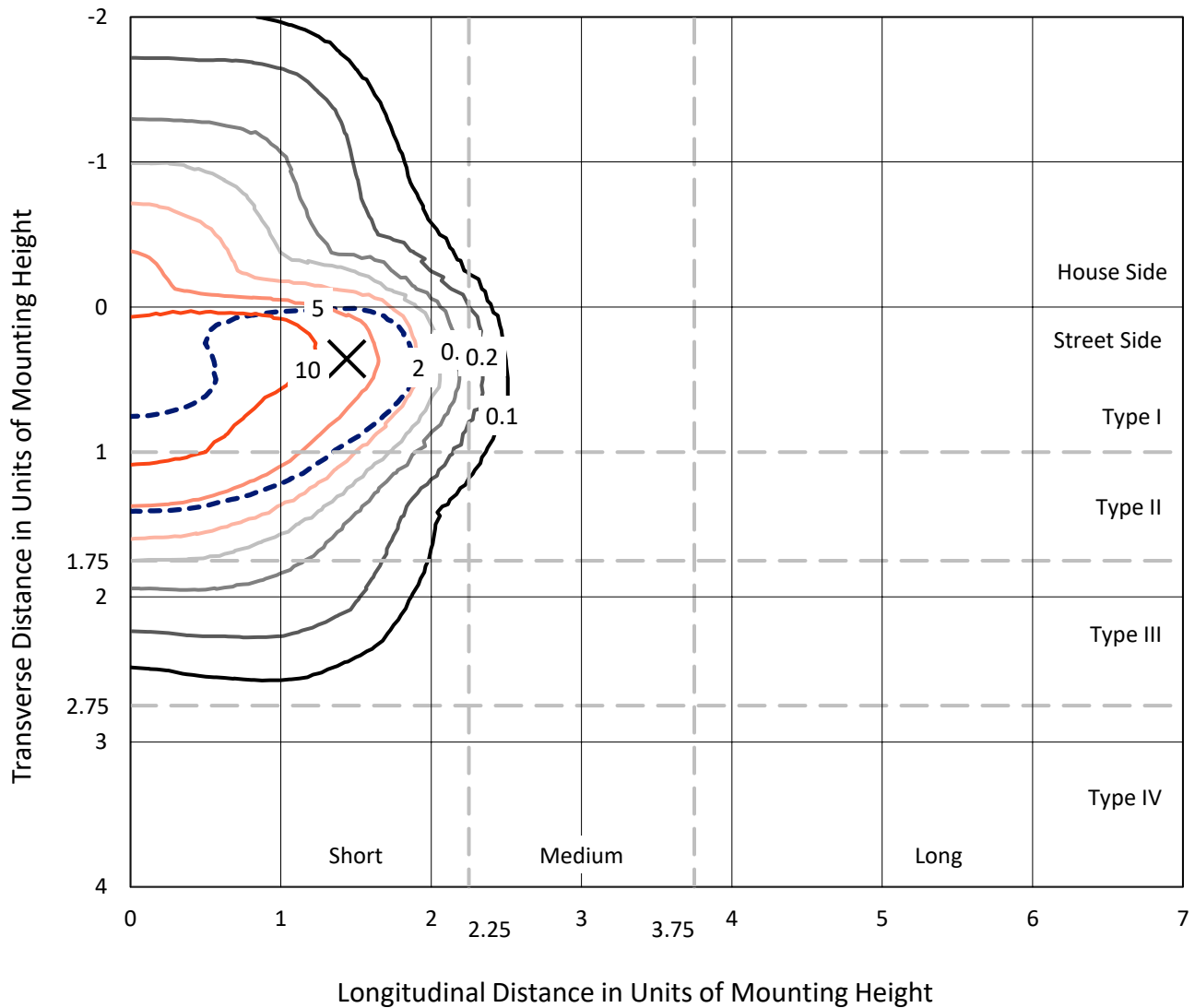
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

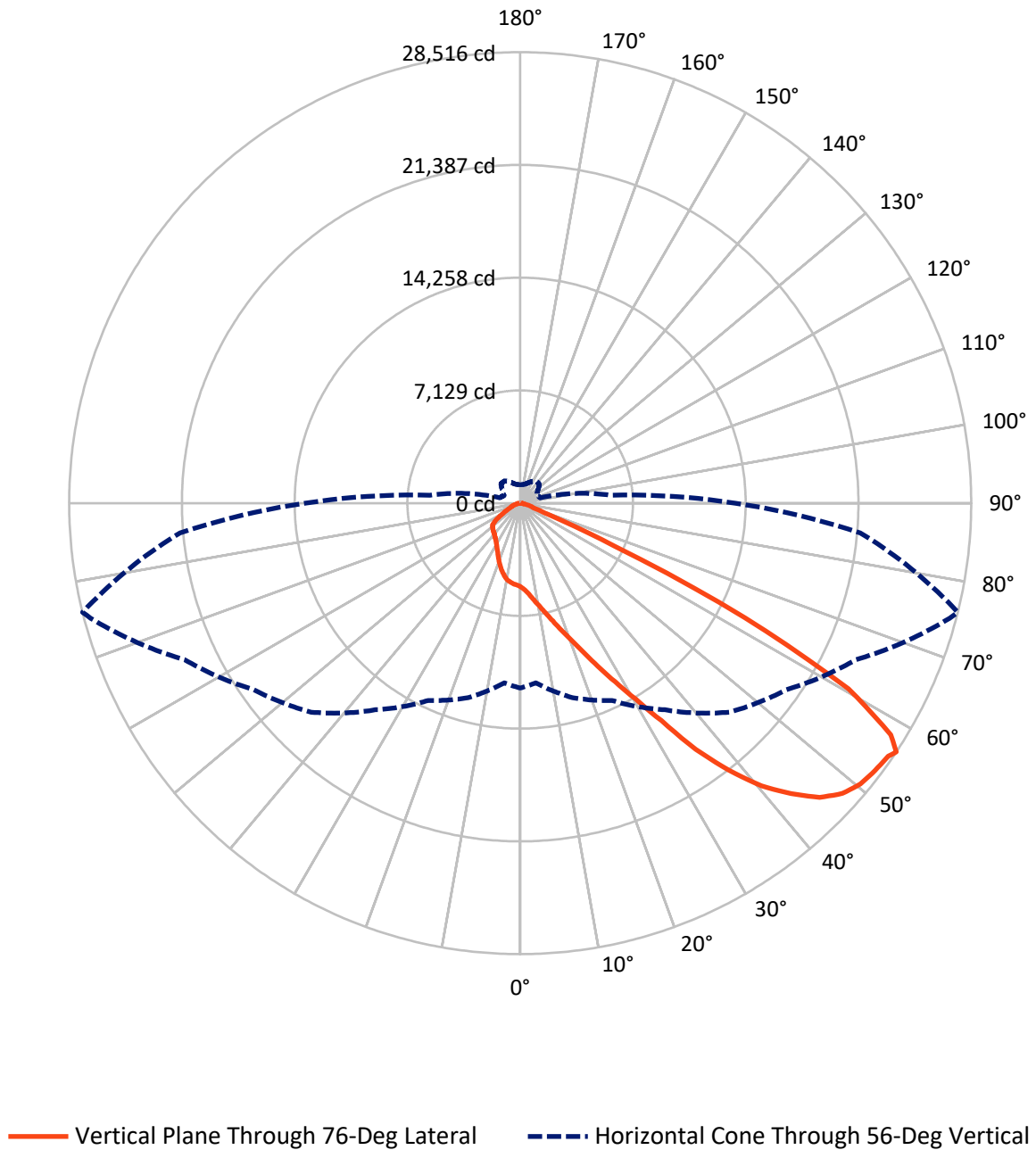
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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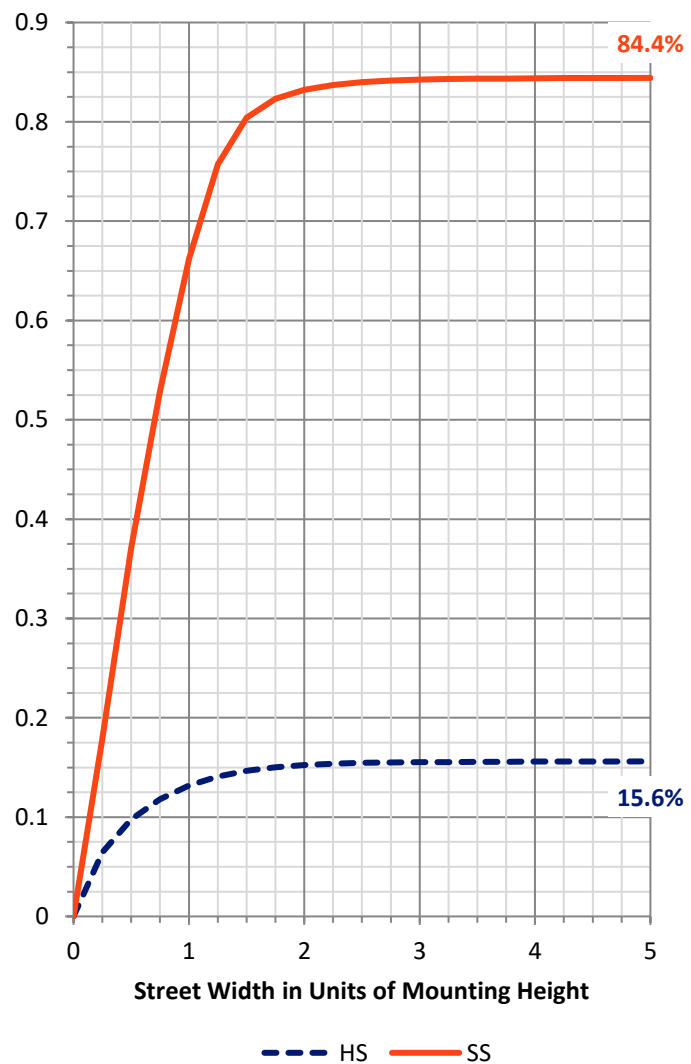
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4993.3	0.0	4993.3
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	26791.7	0.0	26791.7
	% Fixture	84.3	0.0	84.3
Total	Lumens	31785.0	0.0	31785.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.0	1.7
10°-20°	1712.2	5.4
20°-30°	3104.7	9.8
30°-40°	5354.2	16.8
40°-50°	8698.0	27.4
50°-60°	9168.0	28.8
60°-70°	2801.2	8.8
70°-80°	359.1	1.1
80°-90°	54.6	0.2
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°	31785.0	100.0
0°-180°	31785.0	100.0

Coefficient of Utilization



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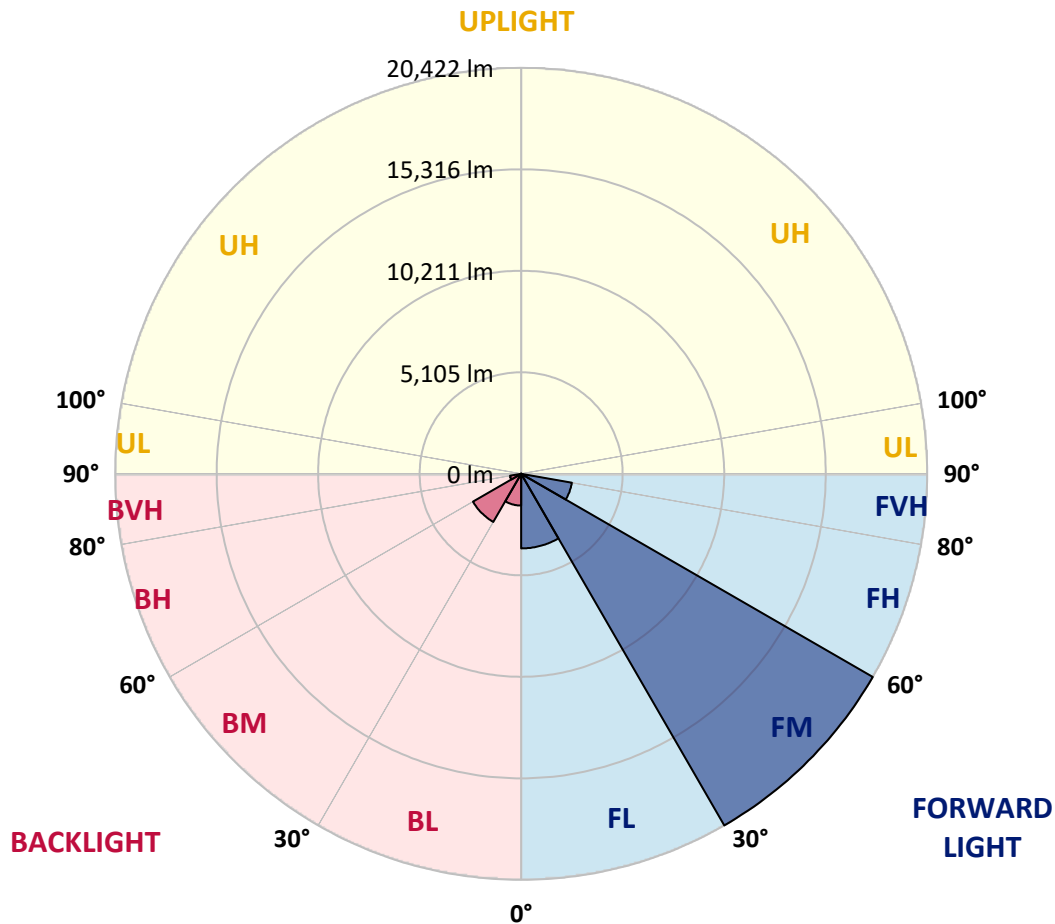
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3752.5	11.8			
FM	(30°-60°)	20421.8	64.2			
FH	(60°-80°)	2590.7	8.2			G2/5000
FVH	(80°-90°)	26.7	0.1			G1/100
BL	(0°-30°)	1597.3	5.0	B3/2500		
BM	(30°-60°)	2798.4	8.8	B3/5000		
BH	(60°-80°)	569.7	1.8	B2/1000		G2/1000
BVH	(80°-90°)	27.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5290.7	5290.7	5290.7	5290.7	5290.7	5290.7	5290.7	5290.7	5290.7	5290.7	5290.7
2.5°	6093.3	5952.7	5958.6	5946.9	5929.3	5864.8	5671.5	5642.2	5513.3	5478.1	5361.0
5°	6825.7	6702.7	6773.0	6667.5	6567.9	6509.3	6192.9	6046.5	5841.4	5765.2	5601.2
7.5°	7282.7	7224.1	7200.7	7206.5	7112.8	6966.3	6825.7	6503.5	6228.1	6169.5	5823.8
10°	7505.4	7470.2	7505.4	7487.8	7528.8	7546.4	7300.3	7106.9	6702.7	6603.1	6064.0
12.5°	7558.1	7628.4	7657.7	7733.9	7833.5	8003.4	7985.8	7722.1	7183.1	7118.7	6433.2
15°	7687.0	7745.6	7716.3	7839.3	8026.8	8313.9	8466.2	8425.2	7845.2	7728.0	6860.9
17.5°	7804.2	7698.7	7798.3	8044.4	8231.9	8671.3	9040.4	9210.3	8565.8	8431.1	7253.4
20°	7962.4	7933.1	7915.5	8038.5	8372.5	8958.4	9690.8	10001.3	9374.4	9233.8	7815.9
22.5°	8442.8	8448.7	8436.9	8255.3	8495.5	9157.6	10259.1	11026.6	10341.1	10223.9	8454.5
25°	9075.6	8999.4	8940.8	8794.3	8765.0	9339.2	10833.3	12280.4	11501.2	11419.2	9145.9
27.5°	9743.5	9743.5	9567.7	9433.0	9245.5	9790.4	11360.6	13499.1	12901.5	12790.2	9749.3
30°	10470.0	10511.0	10487.6	10200.5	10083.3	10282.5	11899.6	15057.6	14506.8	14366.2	10745.4
32.5°	11542.2	11454.3	11553.9	11313.7	10968.0	11143.8	12749.1	16452.0	16592.6	16393.4	12051.9
35°	12960.1	12907.3	12842.9	12450.3	12040.2	12180.8	13950.2	18168.7	19211.6	19112.0	13370.2
37.5°	14231.5	14202.2	14149.4	13879.9	13405.4	13575.3	15315.4	19955.7	21766.1	21438.0	15233.4
40°	15567.3	15725.5	15555.6	15315.4	14881.8	15256.8	16920.7	21016.2	23916.4	23518.0	16657.1
42.5°	17377.7	17254.7	17330.9	16891.4	16657.1	17067.2	18532.0	22076.6	25586.2	25111.6	18168.7
45°	19305.3	19311.2	19106.1	18965.5	18356.2	18801.5	19522.1	22662.5	26916.2	26547.0	19311.2
47.5°	20541.6	20535.7	20758.4	20981.0	20354.1	19914.7	20195.9	23219.1	27601.7	27431.8	19727.2
50°	20348.2	20406.8	20693.9	21525.9	21854.0	21262.2	20828.7	23055.1	27912.2	27894.6	20084.6
52.5°	17700.0	17893.3	18373.8	19574.9	21227.1	21959.5	21490.7	23359.8	28064.5	28093.8	20617.8
55°	13475.7	13581.1	14495.1	15954.0	17782.0	20289.7	21227.1	23600.0	28181.7	28234.4	21262.2
56°	11688.7	11407.4	12725.7	13762.7	15948.1	18690.2	20559.2	23412.5	28111.4	28515.7	21584.5
57.5°	8823.6	8636.1	9702.5	10997.3	13100.7	15995.0	18485.1	22527.8	27636.8	27631.0	21121.6
60°	5366.8	5179.3	5999.6	6761.3	7938.9	9848.9	12491.4	17940.2	23365.6	23857.8	17102.4
62.5°	3193.1	3310.3	4118.9	4581.7	4962.6	5161.8	6462.5	10663.3	15590.8	15942.3	10610.6
65°	2126.8	2167.8	2777.2	3538.8	3708.7	2952.9	2630.7	4318.1	6761.3	6544.5	4376.7
67.5°	1312.4	1406.2	1863.2	2660.0	2947.1	2156.1	1248.0	1611.2	1863.2	1863.2	1265.5
70°	796.8	843.7	1242.1	1810.4	2021.3	1388.6	908.1	908.1	896.4	878.8	755.8
72.5°	380.8	410.1	632.8	931.6	949.2	732.4	703.1	767.5	749.9	744.1	626.9
75°	164.1	175.8	222.6	292.9	334.0	310.5	427.7	550.7	568.3	550.7	451.1
77.5°	52.7	58.6	82.0	105.5	111.3	134.8	181.6	228.5	263.7	246.1	222.6
80°	5.9	11.7	23.4	52.7	82.0	105.5	134.8	152.3	169.9	169.9	158.2
82.5°	5.9	5.9	23.4	46.9	76.2	99.6	128.9	146.5	169.9	175.8	164.1
85°	0.0	5.9	17.6	41.0	64.4	64.4	58.6	58.6	41.0	41.0	41.0
87.5°	0.0	0.0	5.9	5.9	5.9	11.7	11.7	11.7	11.7	11.7	11.7
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°	5290.7	5290.7	5290.7	5290.7	5290.7	5290.7	5290.7	5290.7	5290.7	5290.7	5290.7
2.5°	5337.5	5325.8	5167.6	5068.0	5015.3	4909.8	4845.4	4798.5	4763.4	4722.3	4728.2
5°	5407.8	5366.8	5103.2	4921.5	4704.8	4587.6	4488.0	4406.0	4353.2	4341.5	4318.1
7.5°	5607.0	5390.3	4991.9	4663.7	4388.4	4271.2	4183.3	4130.6	4154.0	4101.3	4142.3
10°	5759.4	5437.1	4857.1	4382.5	4107.1	4019.3	3972.4	4013.4	4072.0	4048.6	4019.3
12.5°	5946.9	5484.0	4640.3	4113.0	3855.2	3790.8	3872.8	3949.0	4066.1	4113.0	4054.4
15°	6157.8	5536.7	4364.9	3802.5	3638.4	3691.2	3831.8	3966.5	4083.7	4142.3	4177.5
17.5°	6415.6	5519.2	4095.4	3556.4	3433.4	3585.7	3755.6	3878.6	4054.4	4142.3	4118.9
20°	6655.8	5460.6	3796.6	3310.3	3316.2	3456.8	3597.4	3796.6	3890.4	4007.5	3966.5
22.5°	6884.3	5355.1	3486.1	3140.4	3140.4	3357.2	3427.5	3556.4	3638.4	3697.0	3691.2
25°	7206.5	5155.9	3228.3	2976.4	3046.7	3187.3	3245.9	3286.9	3251.7	3298.6	3304.5
27.5°	7435.0	4950.8	3017.4	2829.9	2958.8	3064.2	3046.7	3023.2	2941.2	2876.8	2917.8
30°	7681.1	4710.6	2835.7	2730.3	2800.6	2894.3	2824.0	2753.7	2624.8	2519.4	2525.2
32.5°	8032.7	4599.3	2677.6	2613.1	2706.8	2718.6	2642.4	2536.9	2408.0	2308.4	2302.6
35°	8688.9	4529.0	2542.8	2536.9	2554.5	2560.4	2484.2	2355.3	2302.6	2220.6	2249.8
37.5°	9345.1	4493.8	2449.1	2425.6	2419.8	2425.6	2337.7	2214.7	2314.3	2308.4	2320.2
40°	10182.9	4652.0	2314.3	2285.0	2290.9	2290.9	2179.5	2144.4	2320.2	2337.7	2343.6
42.5°	11032.5	4851.2	2226.4	2132.7	2156.1	2156.1	2097.5	2056.5	2179.5	2062.4	2044.8
45°	11770.7	5144.2	2132.7	1980.3	2038.9	2068.2	2050.6	1980.3	1904.2	1705.0	1705.0
47.5°	12010.9	5402.0	2021.3	1833.9	1880.7	2009.6	1956.9	1810.4	1675.7	1511.6	1499.9
50°	12432.8	5683.2	1933.5	1664.0	1763.6	1921.7	1869.0	1722.5	1570.2	1453.0	1458.9
52.5°	12866.3	6005.5	1769.4	1464.7	1587.8	1851.4	1851.4	1687.4	1453.0	1371.0	1359.3
55°	13516.7	5993.7	1476.5	1201.1	1417.9	1746.0	1775.3	1511.6	1300.7	1236.2	1236.2
56°	13610.4	5724.2	1330.0	1124.9	1341.7	1716.7	1722.5	1464.7	1242.1	1171.8	1171.8
57.5°	12907.3	5167.6	1165.9	1031.2	1248.0	1664.0	1669.8	1423.7	1195.2	1095.6	1083.9
60°	9931.0	3497.8	972.6	919.9	1130.8	1499.9	1529.2	1294.8	1048.8	972.6	966.7
62.5°	5607.0	1939.3	855.4	832.0	972.6	1277.3	1365.1	1130.8	890.6	849.6	861.3
65°	2560.4	1066.3	720.7	673.8	785.1	984.3	1101.5	931.6	732.4	685.5	685.5
67.5°	937.4	726.5	615.2	533.2	550.7	638.6	714.8	603.5	486.3	416.0	433.6
70°	667.9	609.3	539.0	462.9	427.7	416.0	410.1	339.8	240.2	187.5	199.2
72.5°	539.0	503.9	451.1	392.6	334.0	281.2	240.2	175.8	111.3	76.2	70.3
75°	386.7	369.1	328.1	281.2	234.4	199.2	164.1	111.3	58.6	29.3	29.3
77.5°	199.2	199.2	193.3	175.8	146.5	117.2	93.7	64.4	35.2	11.7	11.7
80°	152.3	164.1	169.9	152.3	134.8	105.5	76.2	46.9	23.4	5.9	5.9
82.5°	146.5	169.9	181.6	158.2	134.8	99.6	76.2	46.9	23.4	5.9	5.9
85°	35.2	35.2	52.7	58.6	76.2	82.0	64.4	41.0	17.6	5.9	5.9
87.5°	11.7	11.7	11.7	11.7	11.7	11.7	5.9	5.9	5.9	5.9	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)