

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: P533491

Luminaire Tested: **GALN-SA8D-830-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533491
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-SA8D-830-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 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: 29282 lumens
Efficiency: N/A
Efficacy: 59.4 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

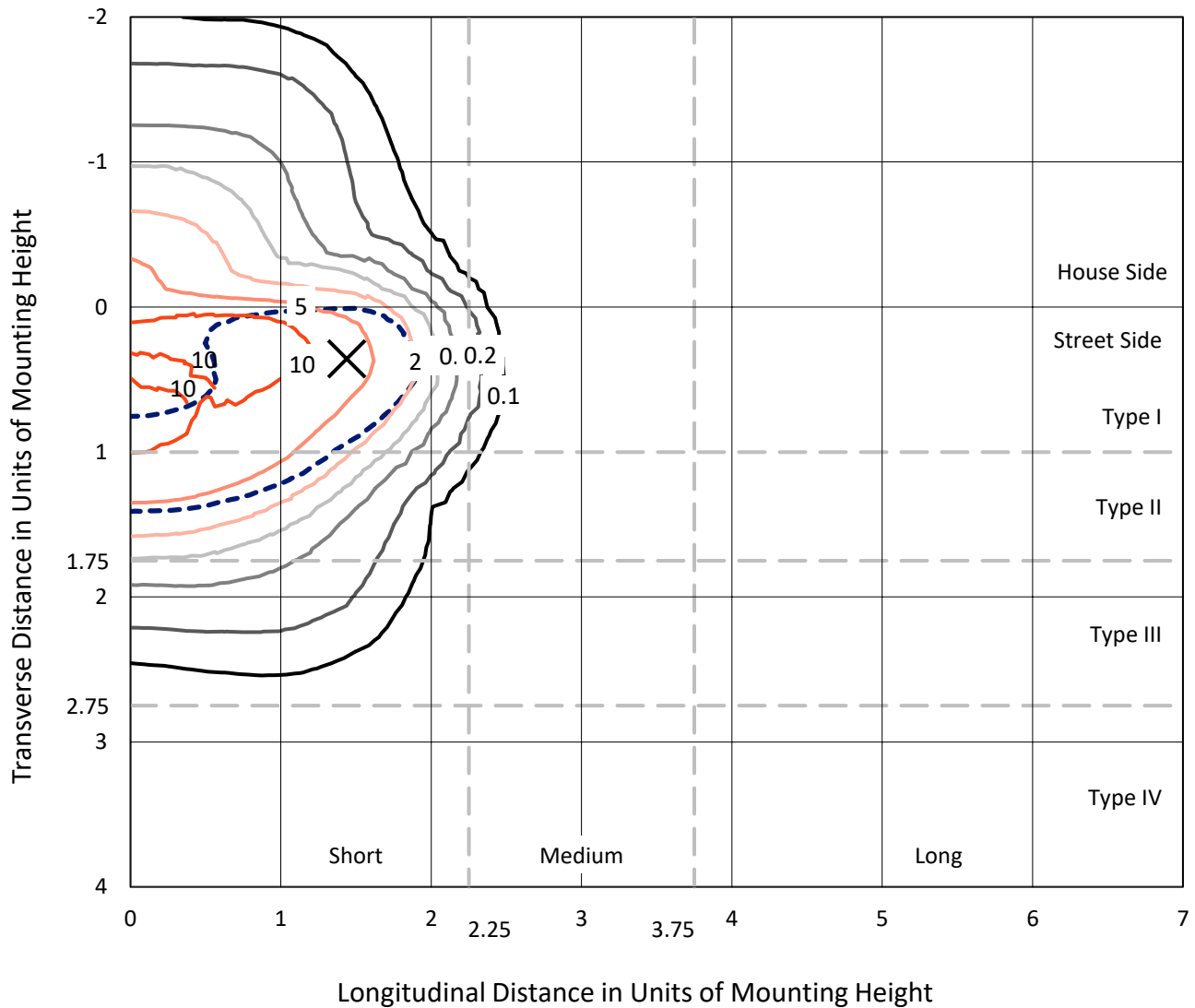
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

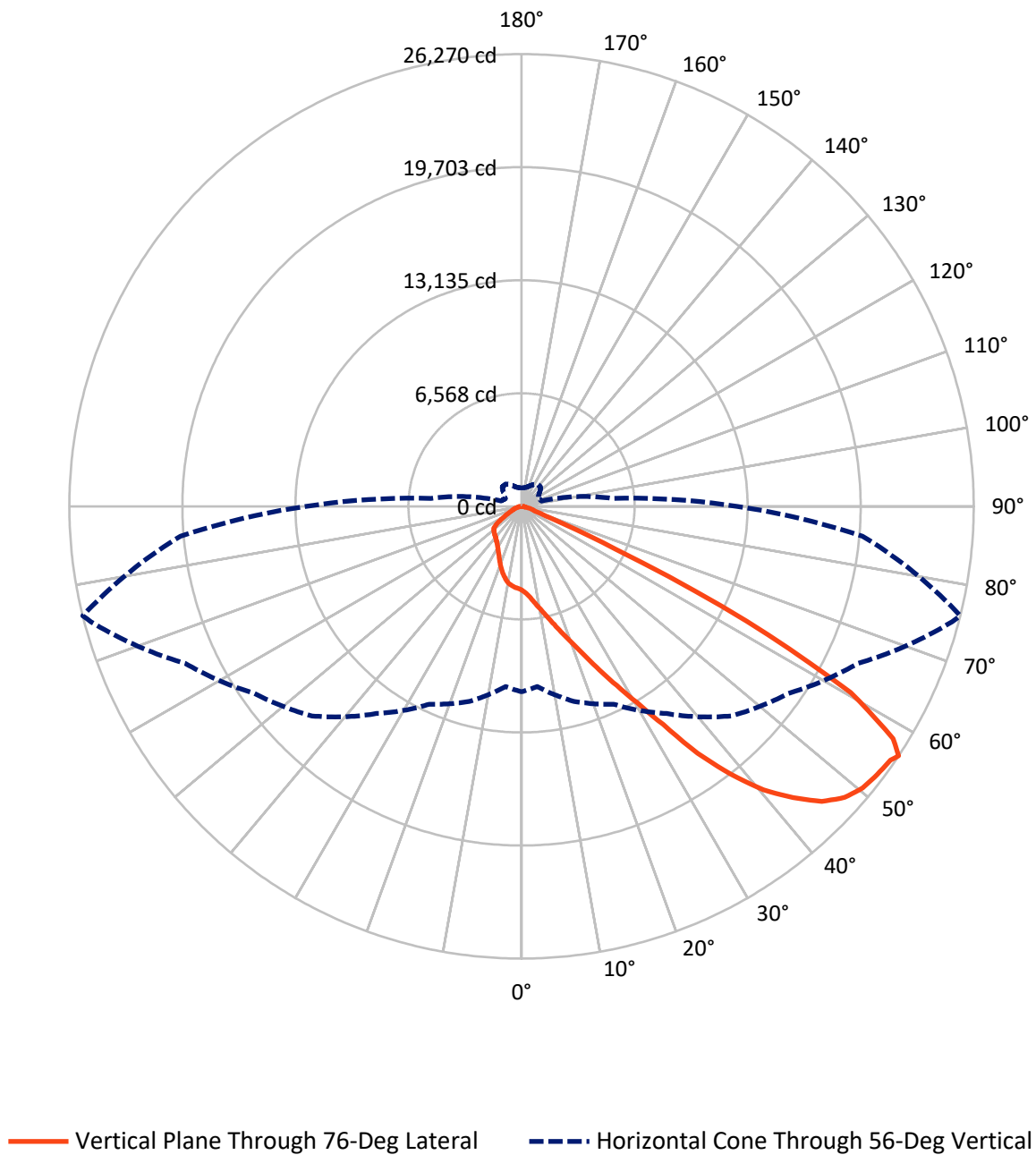
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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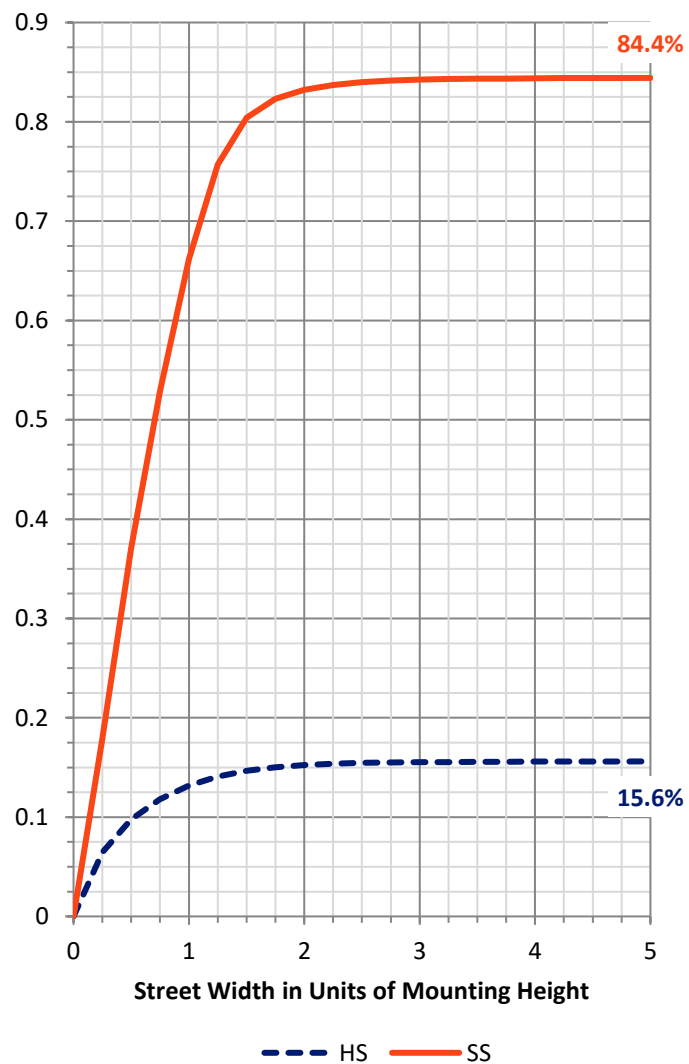
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4600.1	0.0	4600.1
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	24681.9	0.0	24681.9
	% Fixture	84.3	0.0	84.3
Total	Lumens	29282.0	0.0	29282.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.0	1.7
10°-20°	1577.4	5.4
20°-30°	2860.2	9.8
30°-40°	4932.6	16.8
40°-50°	8013.1	27.4
50°-60°	8446.1	28.8
60°-70°	2580.6	8.8
70°-80°	330.8	1.1
80°-90°	50.3	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°	29282.0	100.0
0°-180°	29282.0	100.0

Coefficient of Utilization



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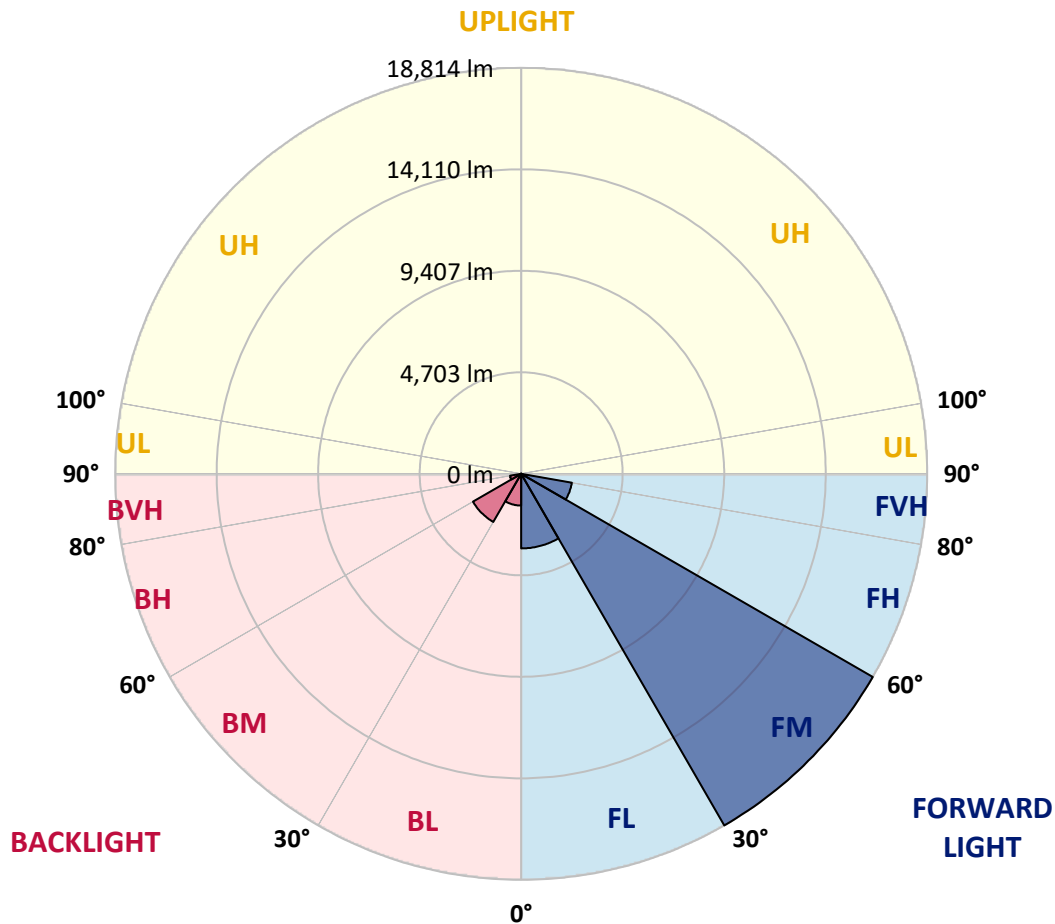
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3457.0	11.8			
FM	(30°-60°)	18813.7	64.2			
FH	(60°-80°)	2386.7	8.2			G2/5000
FVH	(80°-90°)	24.6	0.1			G1/100
BL	(0°-30°)	1471.6	5.0	B3/2500		
BM	(30°-60°)	2578.1	8.8	B3/5000		
BH	(60°-80°)	524.8	1.8	B2/1000		G2/1000
BVH	(80°-90°)	25.6	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°	4874.0	4874.0	4874.0	4874.0	4874.0	4874.0	4874.0	4874.0	4874.0	4874.0	4874.0
2.5°	5613.5	5484.0	5489.4	5478.6	5462.4	5403.0	5224.9	5197.9	5079.1	5046.8	4938.8
5°	6288.2	6174.9	6239.6	6142.5	6050.7	5996.7	5705.3	5570.3	5381.4	5311.2	5160.1
7.5°	6709.2	6655.2	6633.7	6639.0	6552.7	6417.7	6288.2	5991.3	5737.6	5683.7	5365.2
10°	6914.3	6881.9	6914.3	6898.1	6935.9	6952.1	6725.4	6547.3	6174.9	6083.1	5586.5
12.5°	6962.9	7027.7	7054.7	7124.8	7216.6	7373.1	7356.9	7114.0	6617.5	6558.1	5926.6
15°	7081.7	7135.6	7108.6	7222.0	7394.7	7659.2	7799.5	7761.7	7227.4	7119.4	6320.6
17.5°	7189.6	7092.4	7184.2	7410.9	7583.6	7988.4	8328.5	8485.0	7891.3	7767.1	6682.2
20°	7335.3	7308.4	7292.2	7405.5	7713.2	8252.9	8927.6	9213.7	8636.2	8506.6	7200.4
22.5°	7777.9	7783.3	7772.5	7605.2	7826.5	8436.4	9451.2	10158.3	9526.8	9418.8	7788.7
25°	8360.9	8290.7	8236.7	8101.8	8074.8	8603.8	9980.2	11313.4	10595.5	10519.9	8425.7
27.5°	8976.2	8976.2	8814.3	8690.1	8517.4	9019.4	10465.9	12436.1	11885.5	11783.0	8981.6
30°	9645.5	9683.3	9661.7	9397.2	9289.3	9472.8	10962.5	13871.8	13364.5	13234.9	9899.2
32.5°	10633.3	10552.3	10644.1	10422.8	10104.3	10266.2	11745.2	15156.5	15286.0	15102.5	11102.9
35°	11939.5	11890.9	11831.5	11469.9	11092.1	11221.6	12851.7	16738.0	17698.7	17607.0	12317.3
37.5°	13110.8	13083.8	13035.2	12786.9	12349.7	12506.2	14109.3	18384.2	20052.1	19749.8	14033.8
40°	14341.4	14487.2	14330.6	14109.3	13709.9	14055.4	15588.3	19361.2	22033.0	21666.0	15345.4
42.5°	16009.3	15895.9	15966.1	15561.3	15345.4	15723.2	17072.6	20338.2	23571.3	23134.1	16738.0
45°	17785.1	17790.5	17601.6	17472.0	16910.7	17320.9	17984.8	20877.9	24796.6	24456.5	17790.5
47.5°	18924.0	18918.6	19123.7	19328.8	18751.3	18346.4	18605.5	21390.7	25428.1	25271.6	18173.7
50°	18745.9	18799.8	19064.3	19830.8	20133.0	19587.9	19188.5	21239.6	25714.2	25698.0	18503.0
52.5°	16306.1	16484.3	16926.9	18033.4	19555.5	20230.2	19798.4	21520.2	25854.5	25881.5	18994.2
55°	12414.5	12511.6	13353.7	14697.7	16381.7	18691.9	19555.5	21741.5	25962.5	26011.0	19587.9
56°	10768.2	10509.1	11723.6	12679.0	14692.3	17218.3	18940.2	21568.8	25897.7	26270.1	19884.8
57.5°	8128.8	7956.1	8938.4	10131.3	12069.0	14735.4	17029.4	20753.8	25460.5	25455.1	19458.3
60°	4944.2	4771.5	5527.1	6228.8	7313.7	9073.4	11507.7	16527.5	21525.6	21979.0	15755.6
62.5°	2941.7	3049.6	3794.5	4220.9	4571.8	4755.3	5953.6	9823.6	14363.0	14686.9	9775.1
65°	1959.3	1997.1	2558.5	3260.2	3416.7	2720.4	2423.5	3978.0	6228.8	6029.1	4032.0
67.5°	1209.1	1295.4	1716.4	2450.5	2715.0	1986.3	1149.7	1484.3	1716.4	1716.4	1165.9
70°	734.1	777.3	1144.3	1667.9	1862.2	1279.2	836.6	836.6	825.8	809.6	696.3
72.5°	350.8	377.8	582.9	858.2	874.4	674.7	647.7	707.1	690.9	685.5	577.5
75°	151.1	161.9	205.1	269.9	307.7	286.1	394.0	507.4	523.6	507.4	415.6
77.5°	48.6	54.0	75.6	97.2	102.6	124.1	167.3	210.5	242.9	226.7	205.1
80°	5.4	10.8	21.6	48.6	75.6	97.2	124.1	140.3	156.5	156.5	145.7
82.5°	5.4	5.4	21.6	43.2	70.2	91.8	118.7	134.9	156.5	161.9	151.1
85°	0.0	5.4	16.2	37.8	59.4	59.4	54.0	54.0	37.8	37.8	37.8
87.5°	0.0	0.0	5.4	5.4	5.4	10.8	10.8	10.8	10.8	10.8	10.8
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°	4874.0	4874.0	4874.0	4874.0	4874.0	4874.0	4874.0	4874.0	4874.0	4874.0	4874.0
2.5°	4917.2	4906.4	4760.7	4668.9	4620.3	4523.2	4463.8	4420.6	4388.2	4350.5	4355.9
5°	4982.0	4944.2	4701.3	4534.0	4334.3	4226.3	4134.6	4059.0	4010.4	3999.6	3978.0
7.5°	5165.5	4965.8	4598.8	4296.5	4042.8	3934.9	3853.9	3805.3	3826.9	3778.3	3816.1
10°	5305.8	5009.0	4474.6	4037.4	3783.7	3702.8	3659.6	3697.4	3751.3	3729.7	3702.8
12.5°	5478.6	5052.2	4274.9	3789.1	3551.6	3492.2	3567.8	3638.0	3745.9	3789.1	3735.1
15°	5672.9	5100.7	4021.2	3503.0	3351.9	3400.5	3530.0	3654.2	3762.1	3816.1	3848.5
17.5°	5910.4	5084.5	3772.9	3276.3	3163.0	3303.3	3459.9	3573.2	3735.1	3816.1	3794.5
20°	6131.7	5030.6	3497.6	3049.6	3055.0	3184.6	3314.1	3497.6	3584.0	3692.0	3654.2
22.5°	6342.2	4933.4	3211.6	2893.1	2893.1	3092.8	3157.6	3276.3	3351.9	3405.9	3400.5
25°	6639.0	4749.9	2974.1	2742.0	2806.8	2936.3	2990.3	3028.1	2995.7	3038.8	3044.2
27.5°	6849.6	4561.0	2779.8	2607.0	2725.8	2822.9	2806.8	2785.2	2709.6	2650.2	2688.0
30°	7076.3	4339.7	2612.4	2515.3	2580.1	2666.4	2601.6	2536.9	2418.1	2321.0	2326.4
32.5°	7400.1	4237.1	2466.7	2407.3	2493.7	2504.5	2434.3	2337.2	2218.4	2126.7	2121.3
35°	8004.6	4172.3	2342.6	2337.2	2353.4	2358.8	2288.6	2169.8	2121.3	2045.7	2072.7
37.5°	8609.2	4140.0	2256.2	2234.6	2229.2	2234.6	2153.6	2040.3	2132.1	2126.7	2137.4
40°	9381.0	4285.7	2132.1	2105.1	2110.5	2110.5	2007.9	1975.5	2137.4	2153.6	2159.0
42.5°	10163.7	4469.2	2051.1	1964.7	1986.3	1986.3	1932.3	1894.6	2007.9	1900.0	1883.8
45°	10843.8	4739.1	1964.7	1824.4	1878.4	1905.4	1889.2	1824.4	1754.2	1570.7	1570.7
47.5°	11065.1	4976.6	1862.2	1689.4	1732.6	1851.4	1802.8	1667.9	1543.7	1392.6	1381.8
50°	11453.7	5235.7	1781.2	1532.9	1624.7	1770.4	1721.8	1586.9	1446.6	1338.6	1344.0
52.5°	11853.1	5532.5	1630.1	1349.4	1462.7	1705.6	1705.6	1554.5	1338.6	1263.0	1252.2
55°	12452.3	5521.7	1360.2	1106.5	1306.2	1608.5	1635.5	1392.6	1198.3	1138.9	1138.9
56°	12538.6	5273.5	1225.3	1036.3	1236.1	1581.5	1586.9	1349.4	1144.3	1079.5	1079.5
57.5°	11890.9	4760.7	1074.1	950.0	1149.7	1532.9	1538.3	1311.6	1101.1	1009.4	998.6
60°	9148.9	3222.4	896.0	847.4	1041.7	1381.8	1408.8	1192.9	966.2	896.0	890.6
62.5°	5165.5	1786.6	788.0	766.5	896.0	1176.7	1257.6	1041.7	820.4	782.7	793.4
65°	2358.8	982.4	663.9	620.7	723.3	906.8	1014.7	858.2	674.7	631.5	631.5
67.5°	863.6	669.3	566.7	491.2	507.4	588.3	658.5	556.0	448.0	383.2	399.4
70°	615.3	561.4	496.6	426.4	394.0	383.2	377.8	313.1	221.3	172.7	183.5
72.5°	496.6	464.2	415.6	361.6	307.7	259.1	221.3	161.9	102.6	70.2	64.8
75°	356.2	340.0	302.3	259.1	215.9	183.5	151.1	102.6	54.0	27.0	27.0
77.5°	183.5	183.5	178.1	161.9	134.9	108.0	86.4	59.4	32.4	10.8	10.8
80°	140.3	151.1	156.5	140.3	124.1	97.2	70.2	43.2	21.6	5.4	5.4
82.5°	134.9	156.5	167.3	145.7	124.1	91.8	70.2	43.2	21.6	5.4	5.4
85°	32.4	32.4	48.6	54.0	70.2	75.6	59.4	37.8	16.2	5.4	5.4
87.5°	10.8	10.8	10.8	10.8	10.8	10.8	5.4	5.4	5.4	5.4	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)