

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: P947353

Luminaire Tested: **GALN-SB2D-727-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947353
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-727-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19197 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 147.6
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



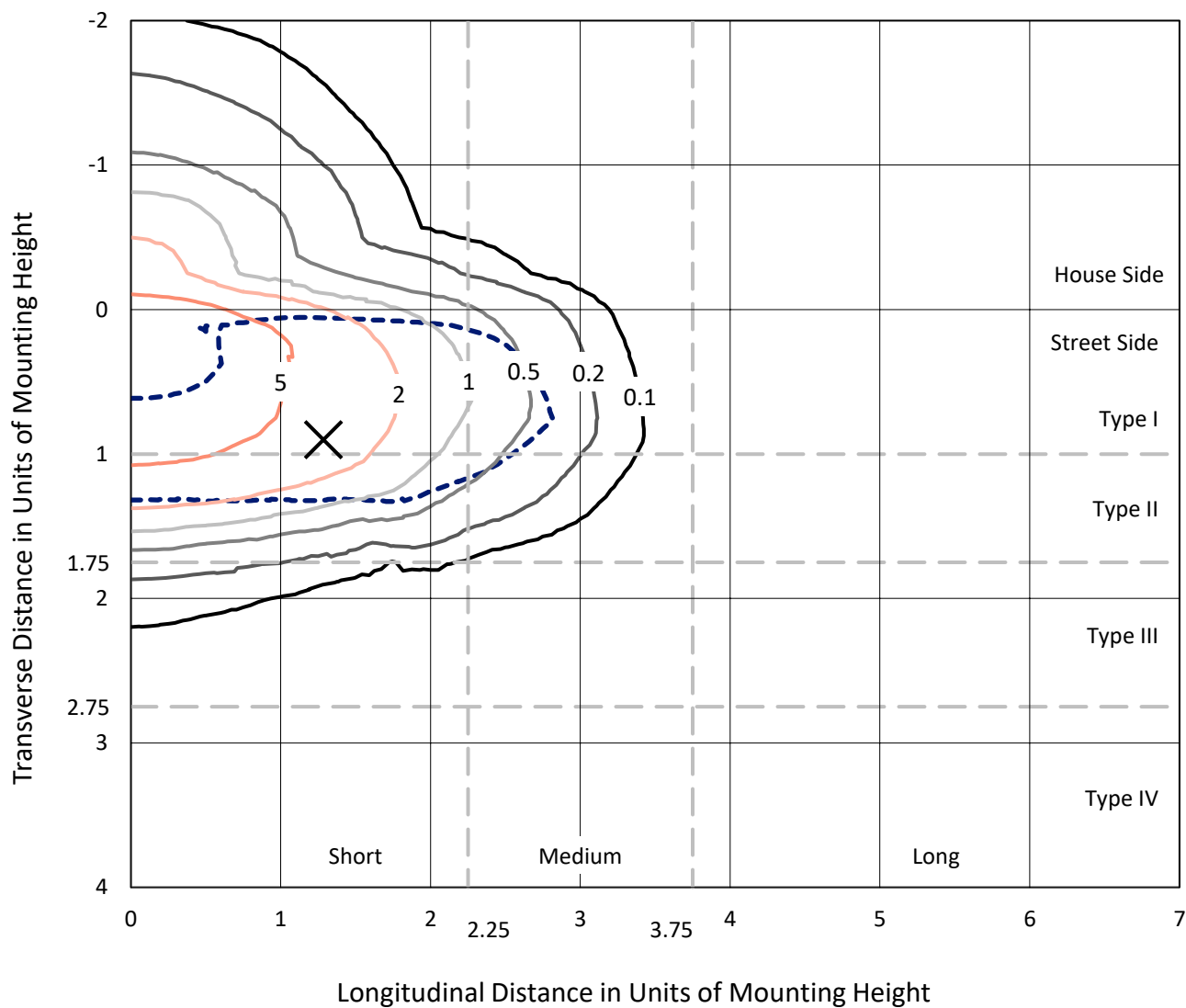
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

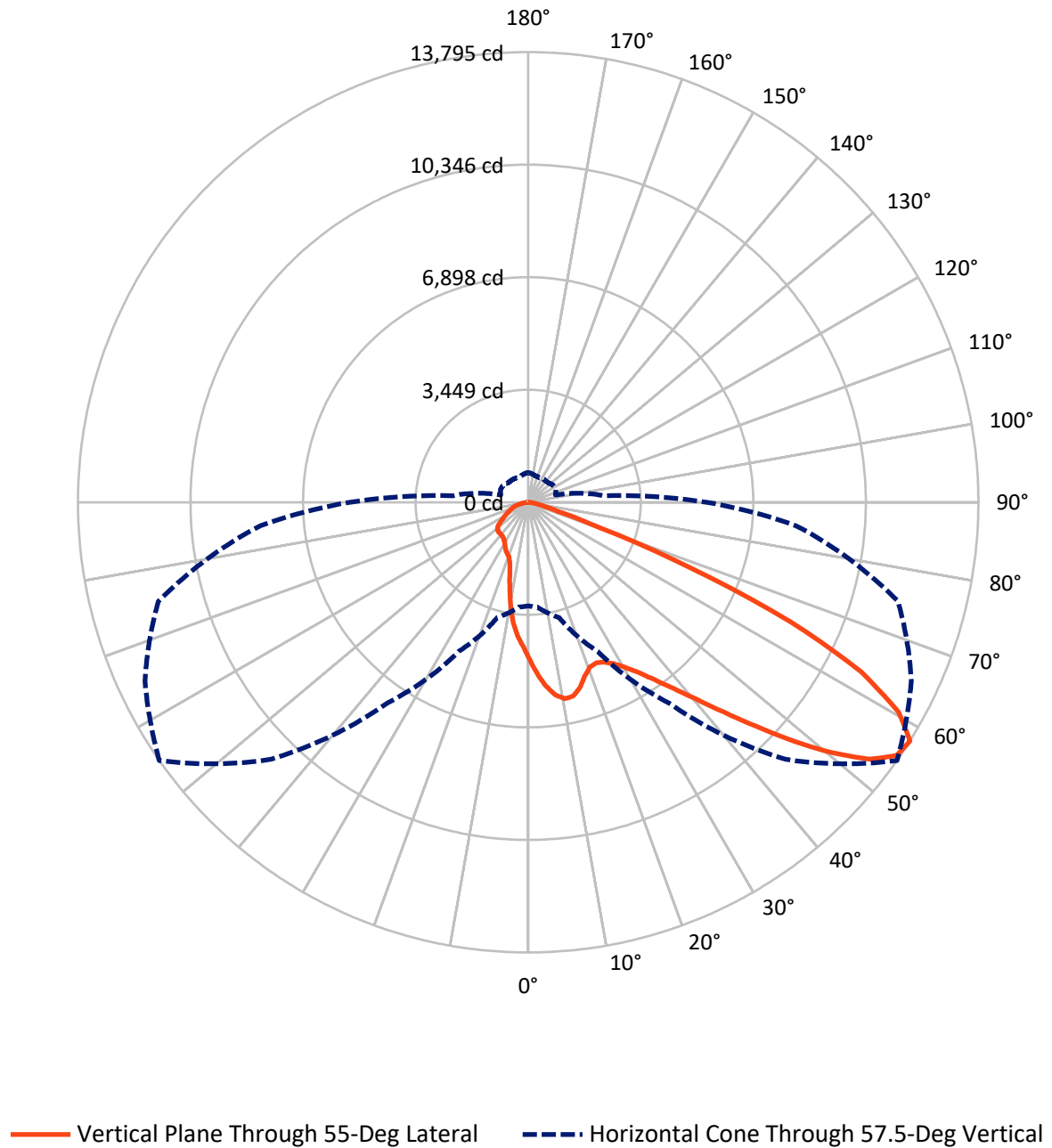


Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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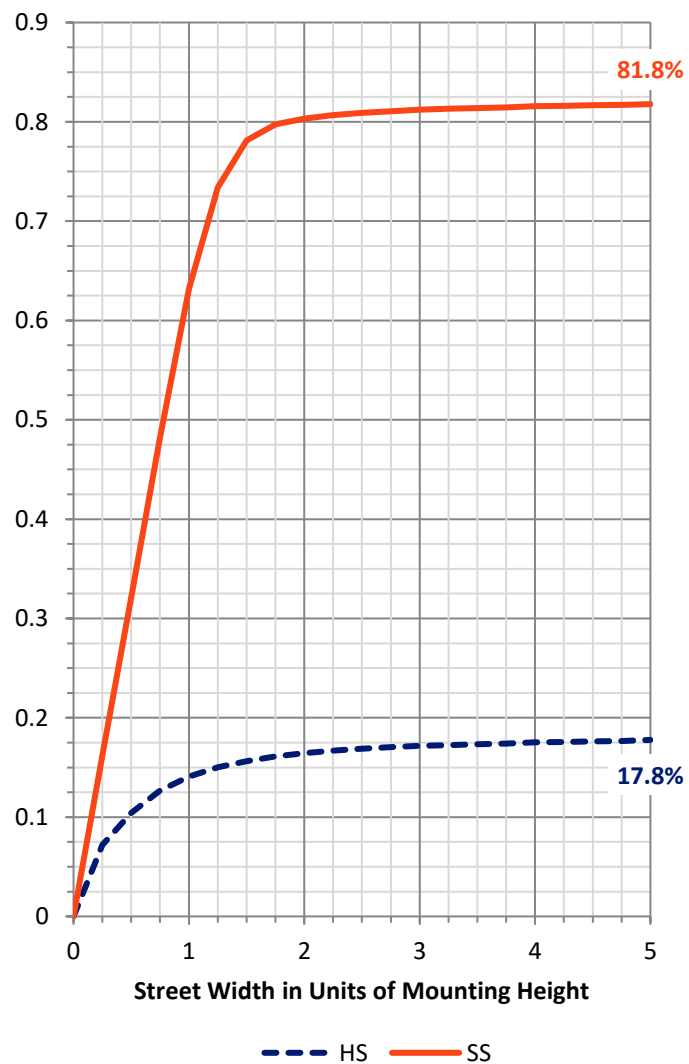
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3473.6	0.0	3473.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	15723.4	0.0	15723.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	19197.0	0.0	19197.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.3	2.3
10°-20°	1126.6	5.9
20°-30°	1797.8	9.4
30°-40°	2846.3	14.8
40°-50°	4356.5	22.7
50°-60°	4666.3	24.3
60°-70°	2935.6	15.3
70°-80°	868.1	4.5
80°-90°	153.5	0.8
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°	19197.0	100.0
0°-180°	19197.0	100.0

Coefficient of Utilization



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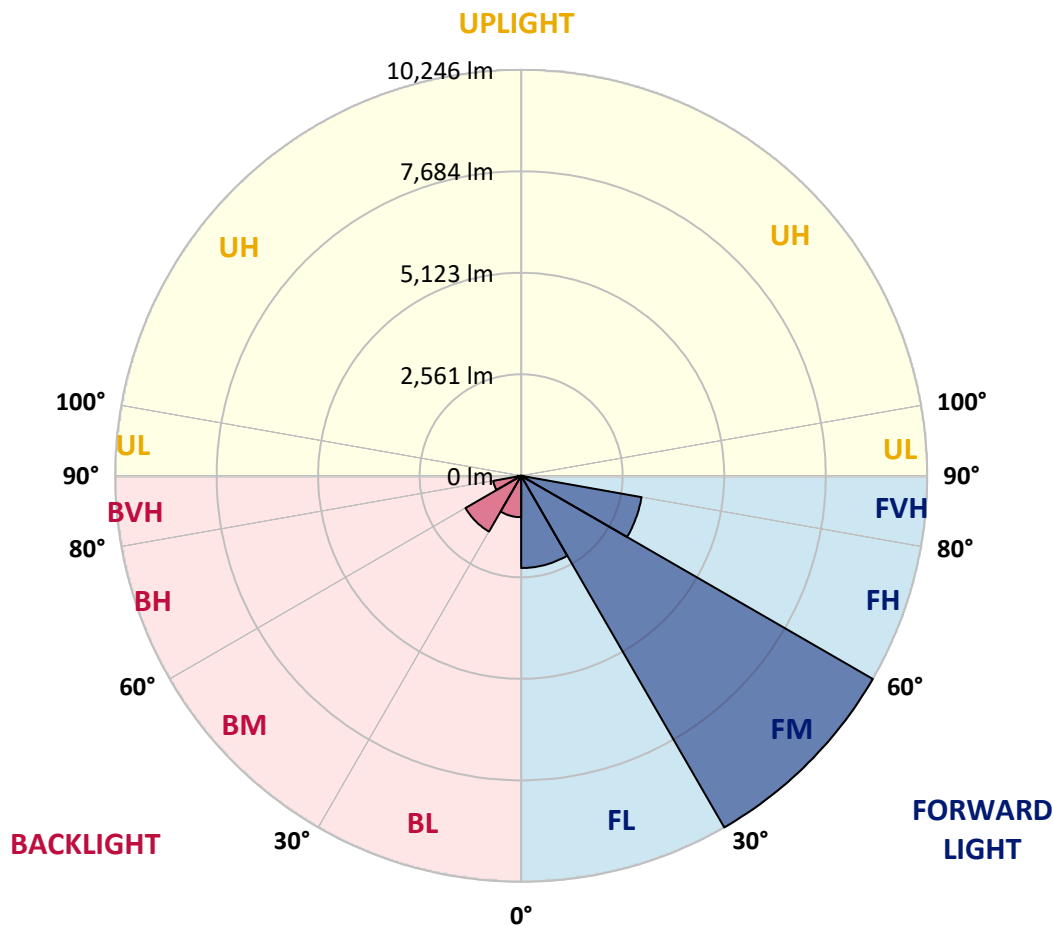
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2326.7	12.1			
FM	(30°-60°)	10245.6	53.4			
FH	(60°-80°)	3086.3	16.1			G2/5000
FVH	(80°-90°)	64.9	0.3			G1/100
BL	(0°-30°)	1044.0	5.4	B3/2500		
BM	(30°-60°)	1623.5	8.5	B2/2500		
BH	(60°-80°)	717.4	3.7	B2/1000		G2/1000
BVH	(80°-90°)	88.6	0.5			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°	85°	90°
0°	4810.1	4810.1	4810.1	4810.1	4810.1	4810.1	4810.1	4810.1	4810.1	4810.1	4810.1
2.5°	5518.7	5514.7	5536.6	5462.1	5411.5	5343.1	5252.8	5137.6	5013.6	4882.6	4826.0
5°	6015.9	5981.2	6004.0	5948.4	5892.8	5789.6	5655.7	5468.1	5238.9	4977.9	4838.9
7.5°	5937.5	5913.7	5972.2	6021.9	6063.5	6050.6	5952.4	5755.9	5460.2	5081.1	4879.6
10°	5305.4	5278.6	5360.9	5532.6	5784.7	6004.0	6123.1	6001.0	5686.4	5194.2	4919.3
12.5°	4747.6	4734.7	4789.3	4928.2	5208.1	5628.9	6101.3	6215.4	5921.6	5328.2	4972.9
15°	4509.4	4493.6	4528.3	4598.8	4777.4	5169.4	5902.8	6362.3	6152.9	5483.0	5058.2
17.5°	4456.9	4439.0	4453.9	4490.6	4605.7	4904.4	5603.1	6434.7	6394.0	5655.7	5129.7
20°	4554.1	4539.2	4541.2	4539.2	4619.6	4856.8	5394.7	6406.9	6604.4	5814.5	5199.2
22.5°	4789.3	4764.5	4765.5	4712.9	4756.6	4940.1	5340.1	6332.5	6792.0	5953.4	5251.8
25°	5172.4	5127.7	5136.6	5002.7	4990.8	5126.7	5425.4	6274.9	6978.5	6064.5	5261.7
27.5°	5696.4	5645.7	5618.9	5419.5	5324.2	5391.7	5599.1	6294.8	7155.2	6160.8	5236.9
30°	6351.3	6289.8	6235.2	5952.4	5779.7	5754.9	5869.0	6425.8	7363.6	6262.0	5194.2
32.5°	7154.2	7082.7	6983.5	6608.4	6365.2	6235.2	6218.4	6659.0	7607.7	6391.0	5172.4
35°	8109.9	8016.6	7875.7	7390.4	7082.7	6816.8	6678.8	6995.4	7942.1	6585.5	5197.2
37.5°	9094.3	8989.1	8860.1	8282.5	7904.4	7512.4	7240.5	7451.9	8387.7	6849.5	5262.7
40°	10002.4	9884.3	9764.2	9250.1	8844.2	8371.9	7928.3	8029.5	8932.6	7165.1	5373.8
42.5°	10538.3	10450.9	10405.3	10127.4	9813.8	9334.5	8783.7	8714.2	9544.9	7528.3	5500.9
45°	10514.4	10478.7	10619.6	10734.8	10660.3	10394.4	9786.0	9471.4	10159.2	7842.9	5618.0
47.5°	9952.7	9976.6	10291.2	10938.2	11223.0	11361.9	10927.3	10214.7	10693.1	8078.1	5670.6
50°	8424.5	8444.3	9172.7	10568.0	11367.9	12150.9	12059.6	10940.2	11106.9	8222.0	5658.6
52.5°	7214.7	7227.6	7540.2	9470.4	10889.6	12547.9	13079.8	11623.9	11409.6	8261.7	5592.2
55°	5434.4	5479.0	5829.3	7430.1	9645.1	12233.3	13701.0	12328.5	11601.1	8265.7	5522.7
57.5°	3174.7	3223.3	3656.0	5043.4	7496.6	11136.7	13795.3	12953.7	11731.1	8233.9	5481.0
60°	1555.1	1575.9	1764.5	2650.7	4622.6	9023.9	13037.1	13256.4	11803.6	8217.0	5479.0
62.5°	1048.0	1045.0	1052.9	1308.0	2277.5	5797.6	11457.2	12726.5	11764.9	8152.5	5459.2
65°	901.1	890.2	860.4	918.0	1180.0	2651.7	8852.2	11144.6	11470.1	7990.8	5323.2
67.5°	779.0	780.0	781.0	763.2	842.5	1223.6	5409.6	8778.7	10412.2	7224.6	4799.2
70°	645.1	654.0	658.0	658.0	686.7	802.8	2309.3	6016.9	8213.1	5664.6	3865.4
72.5°	587.5	568.6	570.6	560.7	560.7	611.3	929.9	3410.9	5174.4	3186.6	2358.9
75°	479.3	491.2	493.2	486.3	463.4	466.4	551.8	1431.0	2214.0	1321.9	1166.1
77.5°	413.8	413.8	417.8	412.8	395.0	349.3	368.2	554.7	753.2	541.8	582.5
80°	332.5	331.5	348.3	358.3	330.5	258.0	235.2	306.7	334.4	238.2	302.7
82.5°	161.8	171.7	239.2	272.9	251.1	186.6	143.9	190.5	178.6	105.2	136.0
85°	94.3	89.3	107.2	151.8	143.9	103.2	69.5	99.2	93.3	53.6	54.6
87.5°	29.8	27.8	21.8	51.6	41.7	28.8	18.9	28.8	25.8	11.9	11.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4810.1	4810.1	4810.1	4810.1	4810.1	4810.1	4810.1	4810.1	4810.1	4810.1
2.5°	4755.6	4638.5	4522.4	4416.2	4351.7	4310.0	4268.3	4221.7	4203.8	4177.0
5°	4707.9	4481.7	4280.2	4106.5	3948.7	3824.7	3699.7	3598.4	3552.8	3583.5
7.5°	4680.1	4352.7	4042.0	3723.5	3416.8	3171.7	2958.3	2808.5	2741.0	2757.9
10°	4655.3	4206.8	3733.4	3230.3	2789.6	2486.0	2267.6	2153.5	2110.8	2119.8
12.5°	4632.5	4043.0	3361.2	2699.3	2230.9	2030.4	1967.9	1968.9	1976.9	1982.8
15°	4628.5	3845.5	2945.4	2234.9	1929.2	1916.3	1983.8	2026.5	2049.3	2056.2
17.5°	4622.6	3609.3	2521.7	1918.3	1855.8	1943.1	2005.6	2033.4	2051.3	2052.3
20°	4598.8	3309.6	2130.7	1767.5	1839.9	1915.3	1954.0	1975.9	1990.7	1995.7
22.5°	4525.3	2976.2	1826.0	1700.0	1776.4	1836.9	1882.6	1907.4	1916.3	1922.3
25°	4393.3	2603.1	1615.6	1635.5	1688.1	1764.5	1801.2	1806.2	1803.2	1812.1
27.5°	4220.7	2203.1	1484.6	1548.1	1615.6	1681.1	1701.0	1698.0	1692.0	1702.0
30°	4012.3	1843.9	1401.3	1449.9	1542.2	1601.7	1619.6	1612.6	1600.7	1611.7
32.5°	3791.9	1550.1	1332.8	1381.4	1481.6	1540.2	1558.1	1551.1	1542.2	1551.1
35°	3586.5	1344.7	1269.3	1335.8	1434.0	1491.6	1514.4	1515.4	1515.4	1526.3
37.5°	3398.0	1224.6	1216.7	1307.0	1401.3	1452.9	1485.6	1487.6	1444.9	1447.9
40°	3223.3	1174.0	1192.9	1288.1	1369.5	1419.1	1421.1	1310.0	1231.6	1229.6
42.5°	3080.4	1164.1	1199.8	1286.1	1346.7	1348.7	1208.7	1122.4	1100.6	1101.6
45°	2946.4	1161.1	1215.7	1286.1	1312.9	1165.1	1070.8	1048.0	1050.0	1057.9
47.5°	2796.6	1149.2	1218.7	1268.3	1215.7	1036.1	1008.3	998.4	994.4	996.4
50°	2632.8	1106.5	1181.0	1232.6	1049.0	980.5	945.8	942.8	947.7	950.7
52.5°	2460.2	1037.1	1116.4	1168.1	972.5	931.9	893.2	900.1	921.9	928.9
55°	2347.0	955.7	1031.1	1039.0	919.0	886.2	853.5	869.3	910.0	922.9
57.5°	2317.2	869.3	933.8	924.9	850.5	846.5	826.7	840.6	892.2	911.0
60°	2308.3	791.9	838.6	831.6	784.0	802.8	797.9	804.8	822.7	828.7
62.5°	2238.8	730.4	753.2	743.3	724.4	757.2	769.1	754.2	768.1	775.1
65°	2062.2	680.8	669.9	662.9	670.9	700.6	724.4	694.7	707.6	727.4
67.5°	1770.4	613.3	583.5	591.5	616.3	632.2	662.9	629.2	640.1	673.8
70°	1432.0	528.0	501.2	524.0	547.8	580.6	585.5	562.7	588.5	626.2
72.5°	1013.2	441.6	422.8	469.4	477.3	520.0	509.1	498.2	533.9	546.8
75°	702.6	356.3	345.4	381.1	409.9	446.6	438.6	451.5	527.0	532.9
77.5°	444.6	276.9	269.9	292.8	332.5	373.1	386.0	532.9	900.1	935.8
80°	258.0	206.4	198.5	216.3	251.1	288.8	372.1	654.0	593.5	586.5
82.5°	143.9	141.9	132.0	137.0	167.7	208.4	526.0	460.5	374.1	386.0
85°	67.5	83.4	71.5	68.5	94.3	244.1	351.3	263.0	174.7	170.7
87.5°	17.9	15.9	15.9	17.9	39.7	210.4	139.9	112.1	66.5	64.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)