

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: P534629

Luminaire Tested: **GALN-SA9A-AMB-U-SL3-HSS**

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534629
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-067-7)
Test Lab: INNOVATION CENTER
Issue Date: 6/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-AMB-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) NARROW BAND AMBER, 500mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6832 lumens
Efficiency: N/A
Efficacy: 38.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

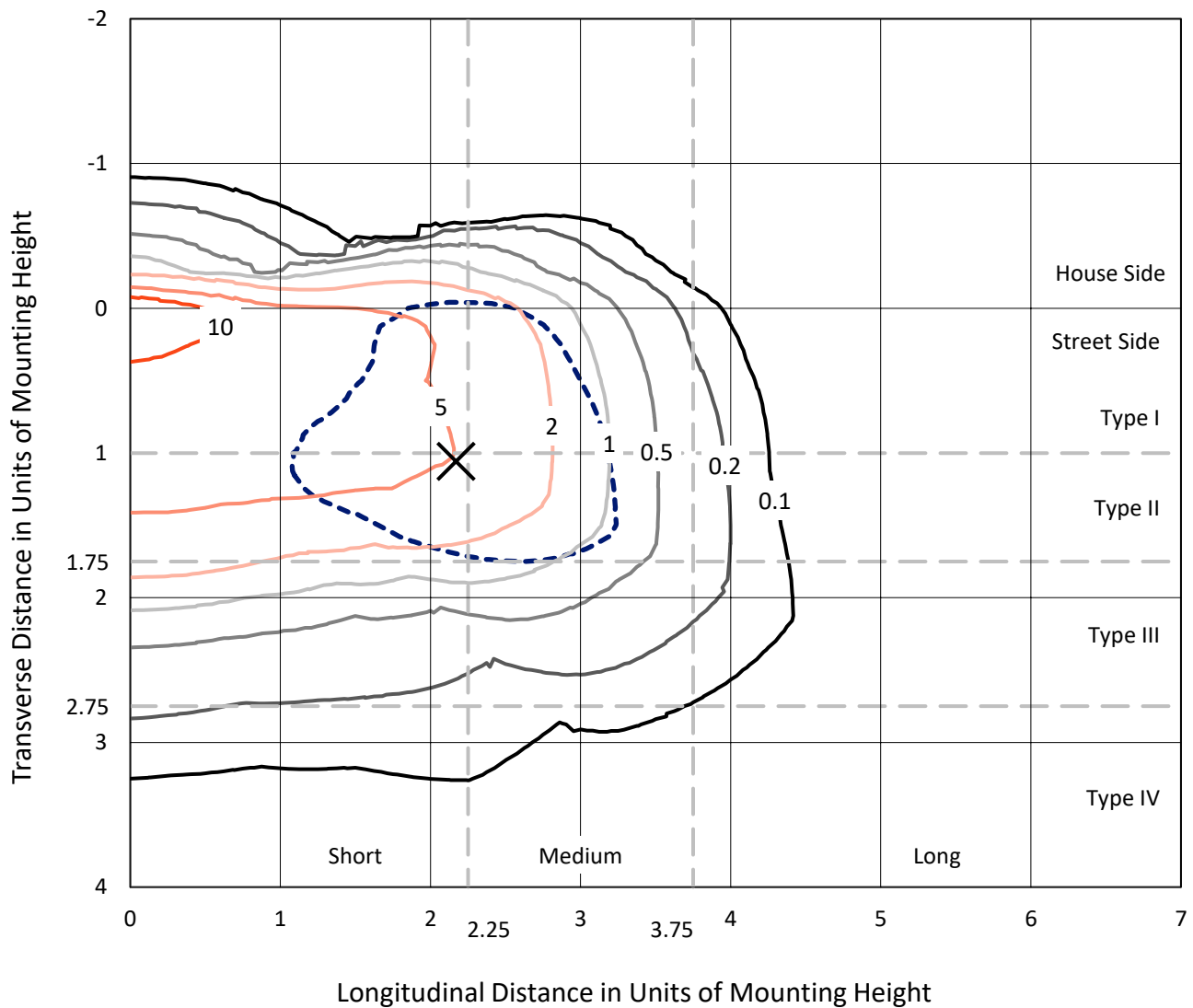
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

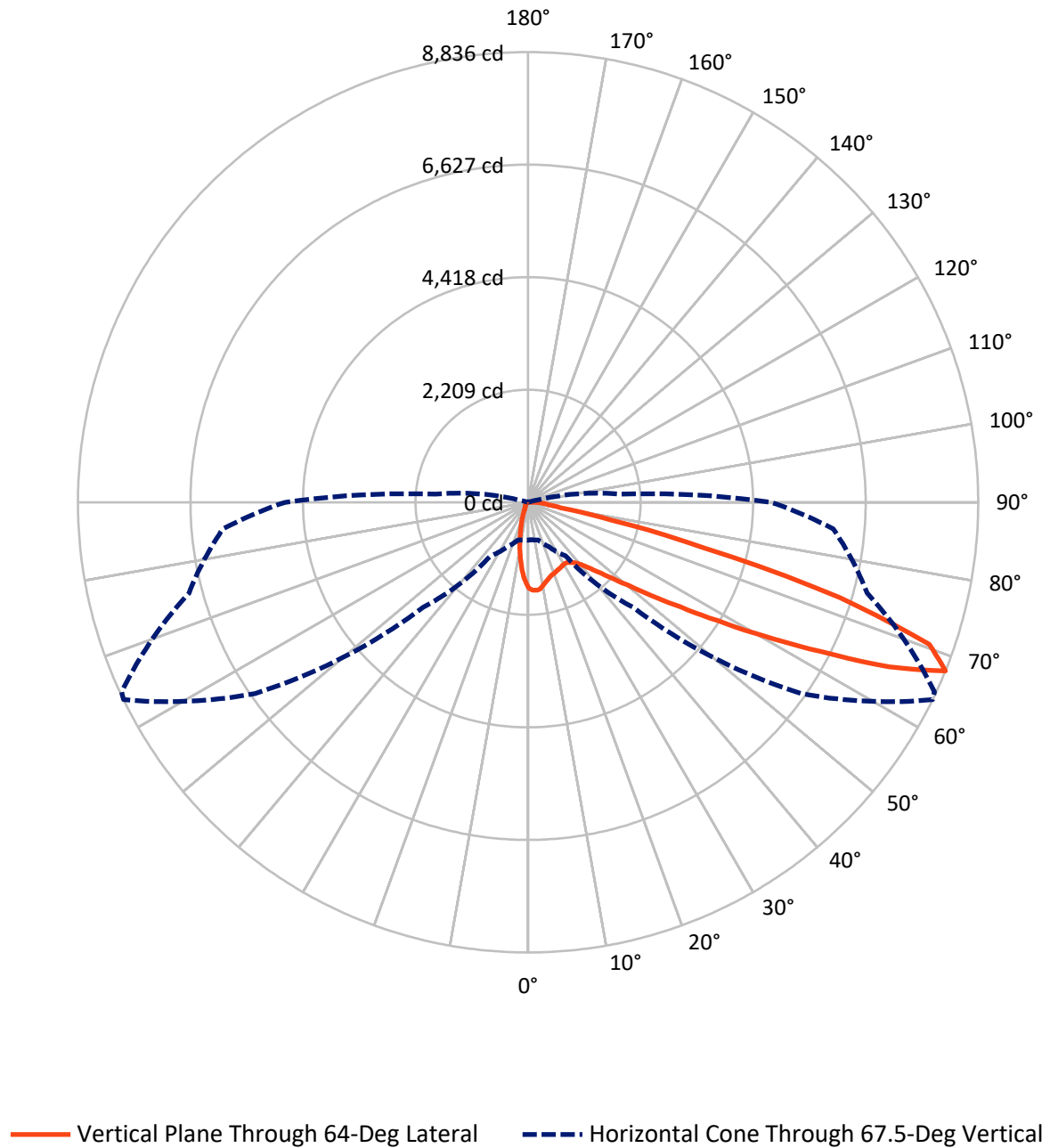
✕ Max cd
 - - - 1/2 Max cd



Based on 10 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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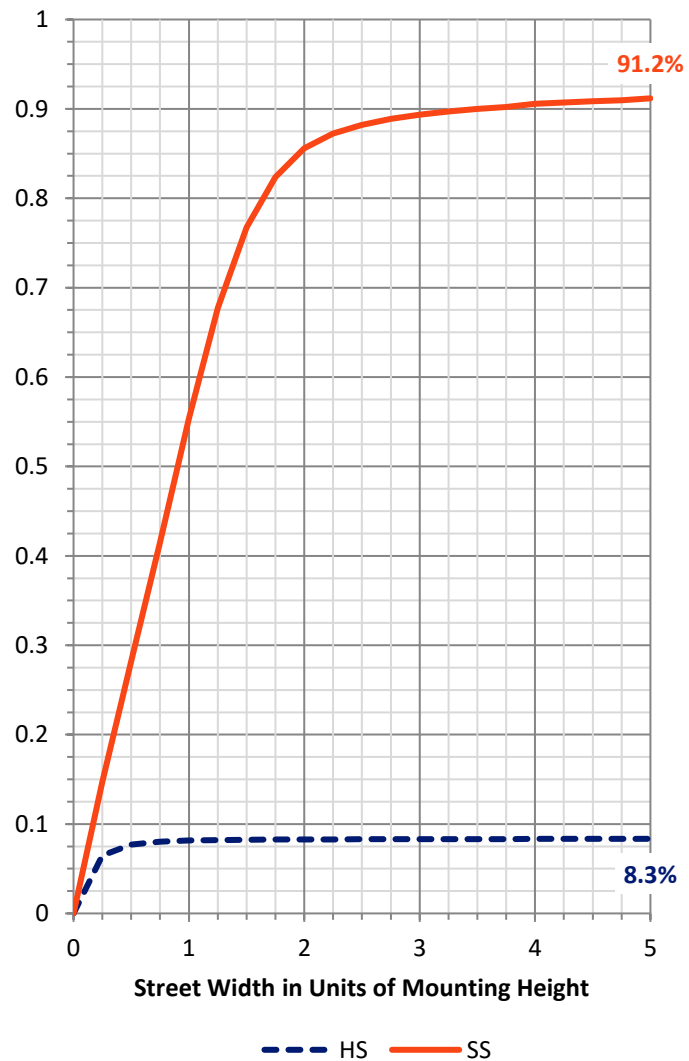
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	575.3	0.0	575.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	6256.7	0.0	6256.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	6832.0	0.0	6832.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.2	1.9
10°-20°	267.6	3.9
20°-30°	376.2	5.5
30°-40°	549.9	8.0
40°-50°	911.9	13.3
50°-60°	1597.0	23.4
60°-70°	2060.2	30.2
70°-80°	847.4	12.4
80°-90°	92.7	1.4
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°	6832.0	100.0
0°-180°	6832.0	100.0

Coefficient of Utilization



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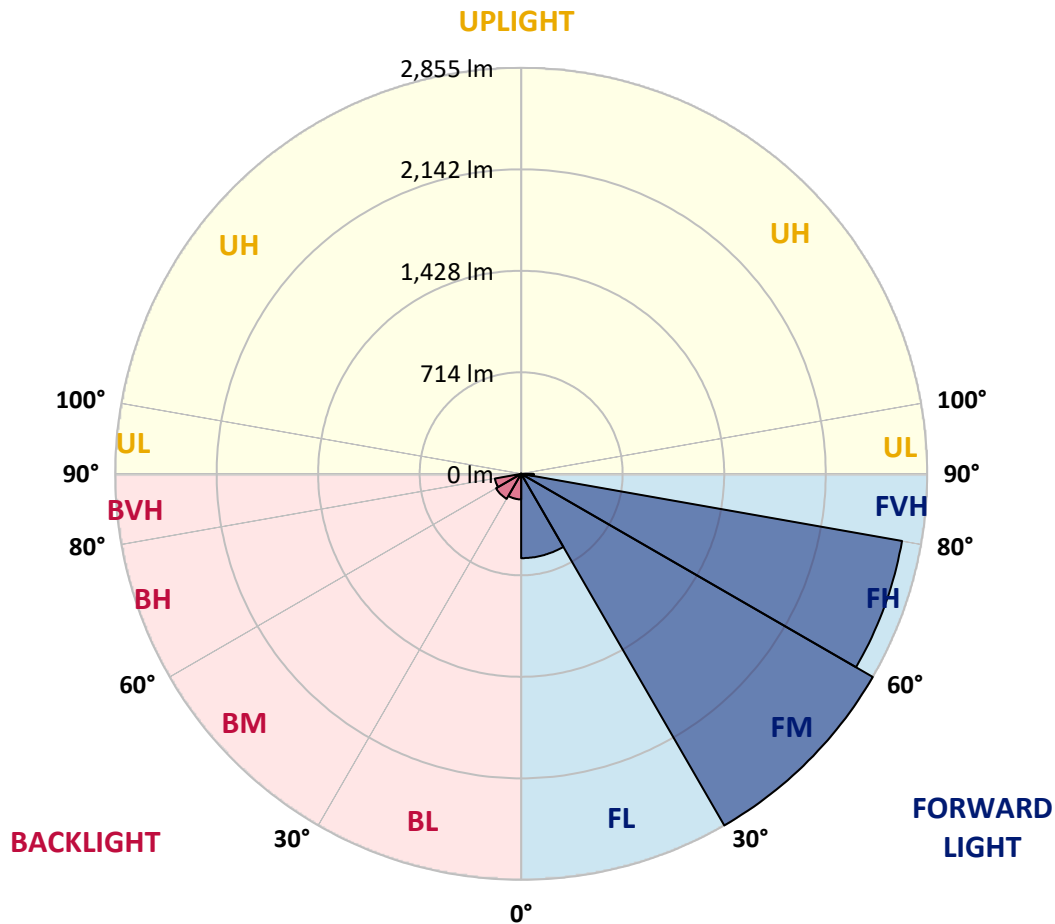
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	593.1	8.7			
FM	(30°-60°)	2855.4	41.8			
FH	(60°-80°)	2719.8	39.8			G2/5000
FVH	(80°-90°)	88.3	1.3			G1/100
BL	(0°-30°)	179.8	2.6	B1/500		
BM	(30°-60°)	203.5	3.0	B0/220		
BH	(60°-80°)	187.7	2.7	B1/500		G1/500
BVH	(80°-90°)	4.3	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6
2.5°	1787.2	1805.7	1794.6	1787.2	1783.5	1765.0	1757.6	1728.0	1735.4	1705.8	1683.6
5°	1735.4	1739.1	1746.5	1753.9	1779.8	1772.4	1757.6	1735.4	1731.7	1698.4	1646.6
7.5°	1605.9	1609.6	1620.7	1650.3	1661.4	1672.5	1709.5	1716.9	1716.9	1657.7	1591.1
10°	1480.1	1472.7	1487.5	1502.3	1543.0	1591.1	1617.0	1650.3	1654.0	1628.1	1557.8
12.5°	1361.7	1354.3	1376.5	1398.7	1446.8	1494.9	1543.0	1594.8	1605.9	1613.3	1524.5
15°	1269.2	1276.6	1287.7	1313.6	1361.7	1424.6	1487.5	1543.0	1546.7	1594.8	1506.0
17.5°	1210.0	1210.0	1221.1	1247.0	1295.1	1358.0	1428.3	1502.3	1513.4	1587.4	1498.6
20°	1206.3	1198.9	1195.2	1206.3	1243.3	1291.4	1387.6	1483.8	1491.2	1580.0	1509.7
22.5°	1224.8	1213.7	1206.3	1198.9	1213.7	1254.4	1350.6	1454.2	1472.7	1580.0	1513.4
25°	1258.1	1254.4	1247.0	1228.5	1213.7	1235.9	1313.6	1439.4	1457.9	1583.7	1528.2
27.5°	1321.0	1313.6	1306.2	1276.6	1243.3	1228.5	1287.7	1417.2	1439.4	1598.5	1550.4
30°	1402.4	1402.4	1398.7	1369.1	1306.2	1250.7	1291.4	1402.4	1420.9	1613.3	1568.9
32.5°	1513.4	1513.4	1509.7	1487.5	1406.1	1313.6	1309.9	1409.8	1432.0	1642.9	1591.1
35°	1635.5	1624.4	1628.1	1620.7	1535.6	1402.4	1365.4	1450.5	1457.9	1687.3	1617.0
37.5°	1720.6	1742.8	1765.0	1776.1	1702.1	1531.9	1461.6	1506.0	1517.1	1761.3	1661.4
40°	1876.0	1883.4	1913.0	1946.3	1901.9	1698.4	1602.2	1605.9	1617.0	1839.0	1742.8
42.5°	2009.2	2005.5	2072.1	2123.9	2101.7	1916.7	1779.8	1761.3	1768.7	1990.7	1864.9
45°	2135.0	2153.5	2249.7	2368.1	2368.1	2175.7	2009.2	1964.8	1961.1	2216.4	2061.0
47.5°	2275.6	2312.6	2442.1	2630.8	2715.9	2493.9	2290.4	2234.9	2209.0	2497.6	2357.0
50°	2423.6	2456.9	2597.5	2826.9	3097.1	2967.5	2638.2	2571.6	2593.8	2838.0	2686.3
52.5°	2560.5	2571.6	2690.0	2915.7	3322.8	3604.0	3141.5	3048.9	3030.4	3256.2	3089.7
55°	2597.5	2616.0	2719.6	2919.4	3441.2	4081.3	4199.7	3622.5	3589.2	3641.0	3489.3
57.5°	2534.6	2560.5	2660.4	2826.9	3456.0	4421.7	5061.8	4377.3	4325.5	4018.4	3977.7
60°	2190.5	2227.5	2316.3	2534.6	3200.7	4614.1	5709.4	5328.3	5224.7	4492.0	4677.0
62.5°	1739.1	1713.2	1883.4	2160.9	2664.1	4362.5	6308.8	6449.4	6382.8	5246.9	5554.0
65°	1065.7	1069.4	1117.5	1439.4	2138.7	3589.2	6797.2	7788.9	7792.6	6342.1	6157.1
67.5°	743.7	736.3	765.9	958.3	1284.0	2915.7	6545.6	8836.0	8802.7	6889.7	6012.8
70°	577.2	566.1	562.4	703.0	902.8	1776.1	5424.5	8355.0	8314.3	6467.9	4954.5
72.5°	418.1	407.0	425.5	566.1	784.4	1050.9	3863.0	6401.3	6342.1	4706.6	3015.6
75°	262.7	266.4	303.4	425.5	736.3	747.4	2268.2	3570.7	3585.5	2260.8	1232.2
77.5°	151.7	148.0	185.0	299.7	610.5	691.9	1161.9	1665.1	1561.5	758.5	358.9
80°	66.6	66.6	96.2	210.9	444.0	688.2	710.4	643.8	629.0	181.3	122.1
82.5°	29.6	29.6	44.4	122.1	296.0	551.3	599.4	410.7	370.0	70.3	70.3
85°	3.7	3.7	18.5	62.9	140.6	281.2	506.9	333.0	288.6	33.3	44.4
87.5°	0.0	0.0	7.4	18.5	40.7	148.0	296.0	199.8	173.9	14.8	18.5
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°	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6	1683.6
2.5°	1665.1	1642.9	1602.2	1554.1	1494.9	1465.3	1420.9	1376.5	1361.7	1358.0	1350.6
5°	1628.1	1583.7	1491.2	1387.6	1272.9	1165.6	1076.8	1006.4	950.9	932.4	902.8
7.5°	1557.8	1509.7	1358.0	1187.8	1017.5	851.0	703.0	606.8	551.3	536.5	529.1
10°	1506.0	1432.0	1221.1	987.9	747.4	573.5	432.9	344.1	296.0	273.8	273.8
12.5°	1465.3	1376.5	1091.6	795.5	536.5	358.9	255.3	192.4	173.9	170.2	166.5
15°	1439.4	1309.9	969.4	610.5	377.4	225.7	166.5	155.4	151.7	148.0	148.0
17.5°	1420.9	1250.7	847.3	481.0	255.3	159.1	144.3	140.6	136.9	136.9	136.9
20°	1409.8	1202.6	721.5	366.3	170.2	136.9	129.5	125.8	122.1	122.1	118.4
22.5°	1387.6	1154.5	614.2	266.4	136.9	122.1	114.7	111.0	103.6	103.6	103.6
25°	1383.9	1106.4	514.3	185.0	122.1	111.0	99.9	92.5	88.8	85.1	85.1
27.5°	1380.2	1054.6	440.3	136.9	111.0	96.2	88.8	77.7	70.3	70.3	66.6
30°	1358.0	1002.7	366.3	118.4	99.9	85.1	74.0	66.6	59.2	55.5	55.5
32.5°	1354.3	943.5	296.0	107.3	88.8	74.0	62.9	55.5	48.1	48.1	48.1
35°	1343.2	869.5	229.4	96.2	81.4	66.6	55.5	48.1	40.7	40.7	40.7
37.5°	1343.2	817.7	170.2	88.8	74.0	55.5	44.4	40.7	33.3	33.3	33.3
40°	1369.1	762.2	129.5	81.4	66.6	51.8	40.7	33.3	29.6	29.6	29.6
42.5°	1428.3	728.9	103.6	77.7	59.2	44.4	37.0	29.6	25.9	22.2	22.2
45°	1550.4	736.3	96.2	70.3	51.8	40.7	29.6	25.9	22.2	18.5	18.5
47.5°	1750.2	769.6	88.8	62.9	44.4	33.3	25.9	18.5	14.8	14.8	14.8
50°	1972.2	836.2	85.1	55.5	40.7	29.6	22.2	14.8	14.8	11.1	11.1
52.5°	2297.8	943.5	77.7	51.8	37.0	25.9	18.5	14.8	11.1	11.1	11.1
55°	2693.7	1128.6	70.3	48.1	29.6	22.2	14.8	11.1	7.4	7.4	7.4
57.5°	3152.6	1339.5	62.9	40.7	25.9	18.5	14.8	7.4	7.4	3.7	3.7
60°	3759.4	1628.1	55.5	37.0	22.2	14.8	11.1	7.4	3.7	3.7	3.7
62.5°	4577.1	1909.3	48.1	29.6	18.5	11.1	7.4	7.4	3.7	3.7	3.7
65°	4961.9	1990.7	40.7	25.9	14.8	11.1	7.4	3.7	3.7	0.0	0.0
67.5°	4769.5	1820.5	33.3	22.2	14.8	11.1	7.4	3.7	0.0	0.0	0.0
70°	3755.7	1369.1	33.3	18.5	14.8	11.1	7.4	3.7	0.0	0.0	0.0
72.5°	2157.2	828.8	29.6	18.5	11.1	11.1	7.4	3.7	3.7	0.0	0.0
75°	854.7	266.4	25.9	14.8	11.1	11.1	7.4	3.7	3.7	0.0	0.0
77.5°	229.4	99.9	22.2	14.8	14.8	14.8	14.8	7.4	3.7	0.0	0.0
80°	74.0	37.0	22.2	14.8	14.8	18.5	14.8	7.4	3.7	0.0	0.0
82.5°	55.5	25.9	22.2	14.8	14.8	14.8	14.8	7.4	3.7	0.0	0.0
85°	37.0	11.1	7.4	7.4	7.4	7.4	7.4	3.7	3.7	3.7	0.0
87.5°	18.5	7.4	3.7	3.7	3.7	3.7	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)