

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: P527645

Luminaire Tested: **GALN-SA2C-830-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527645
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-830-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6709 lumens
Efficiency: N/A
Efficacy: 62.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

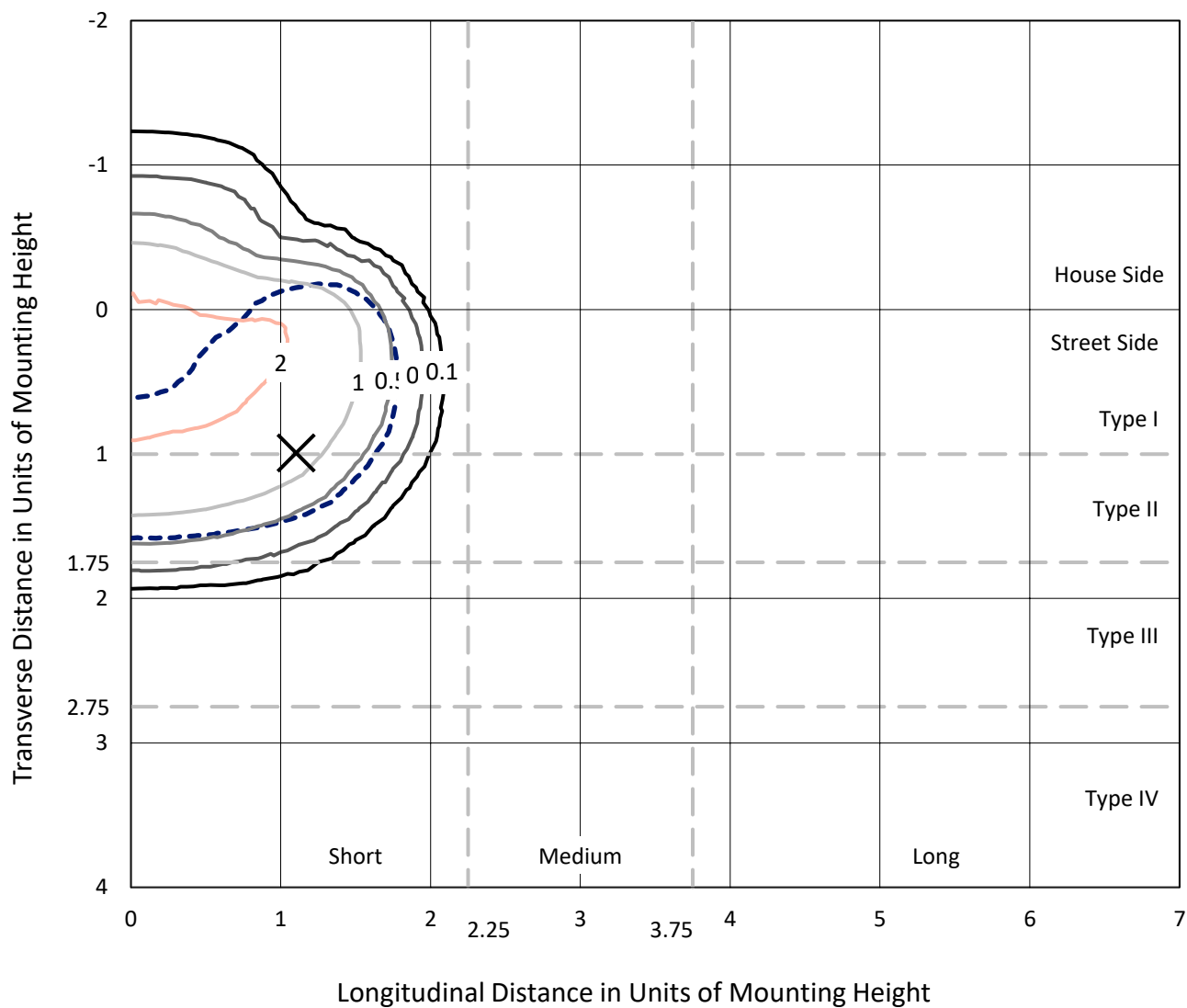
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

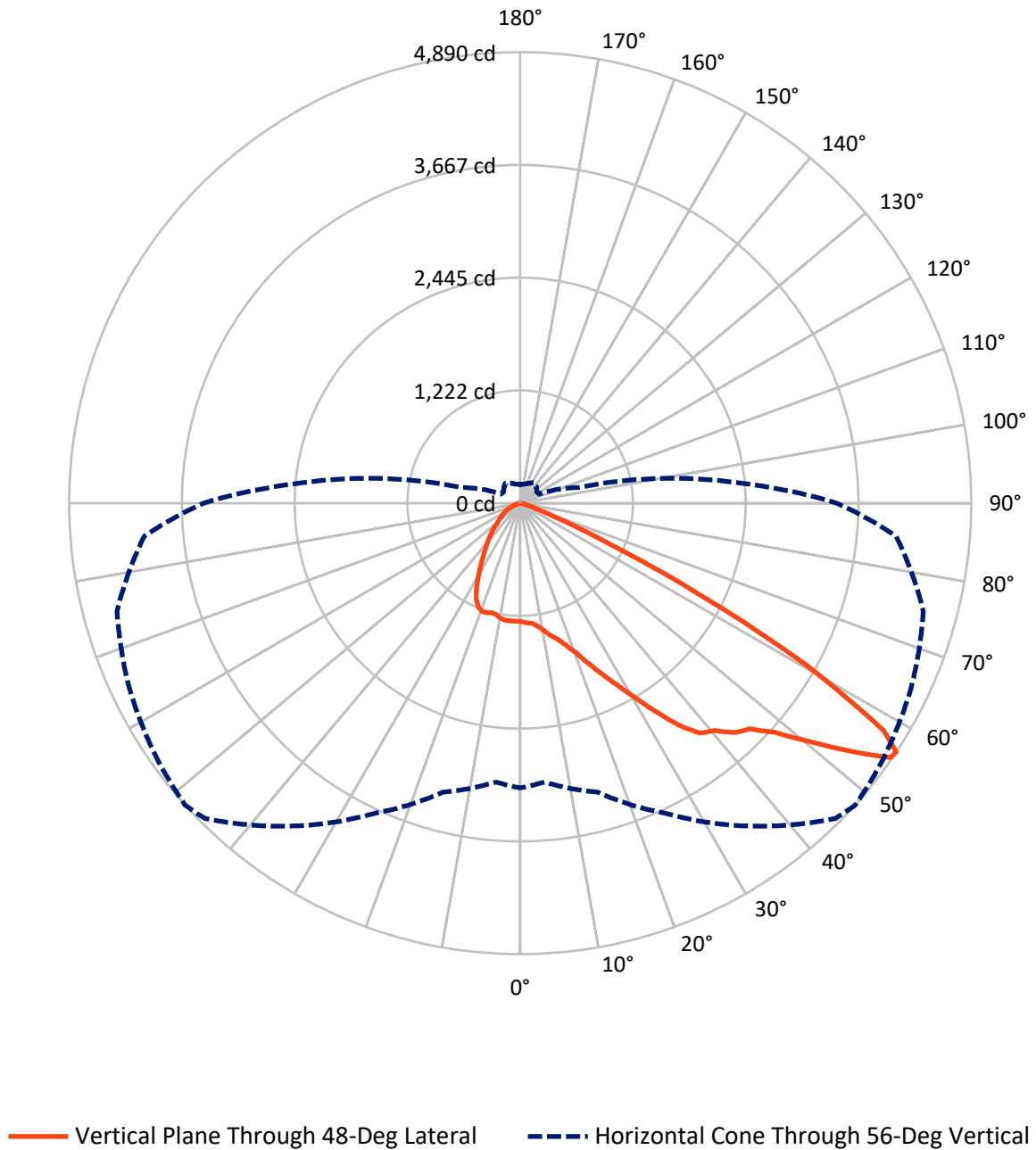
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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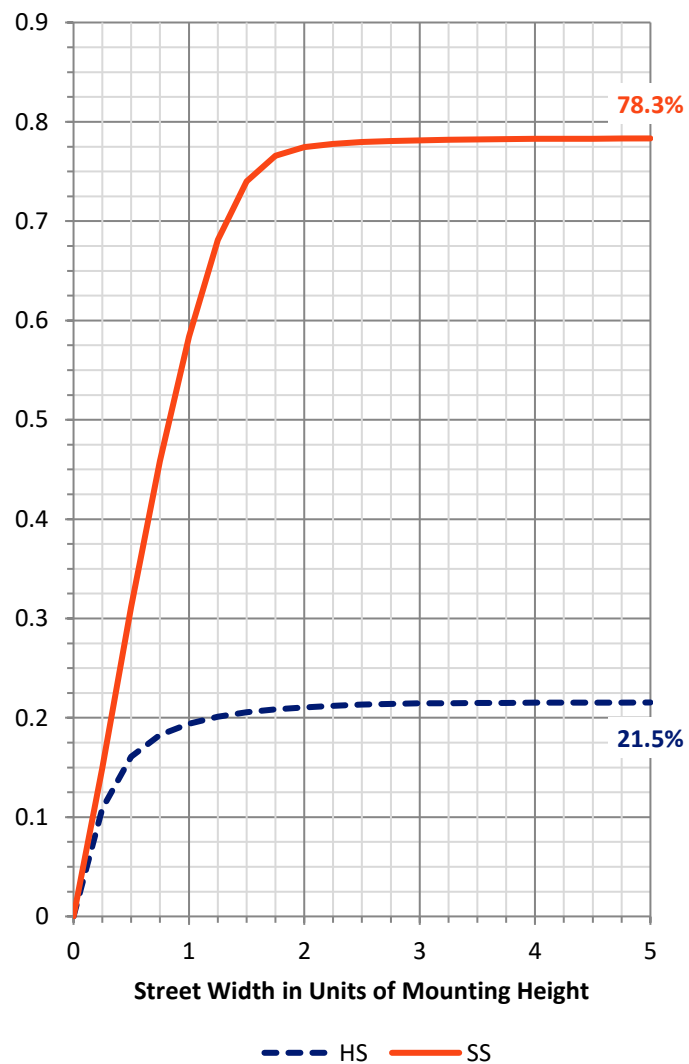
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1459.1	0.0	1459.1
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	5249.9	0.0	5249.9
	% Fixture	78.3	0.0	78.3
Total	Lumens	6709.0	0.0	6709.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.8	1.9
10°-20°	398.9	5.9
20°-30°	723.6	10.8
30°-40°	1136.6	16.9
40°-50°	1658.0	24.7
50°-60°	1997.6	29.8
60°-70°	584.9	8.7
70°-80°	74.2	1.1
80°-90°	10.4	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°	6709.0	100.0
0°-180°	6709.0	100.0

Coefficient of Utilization



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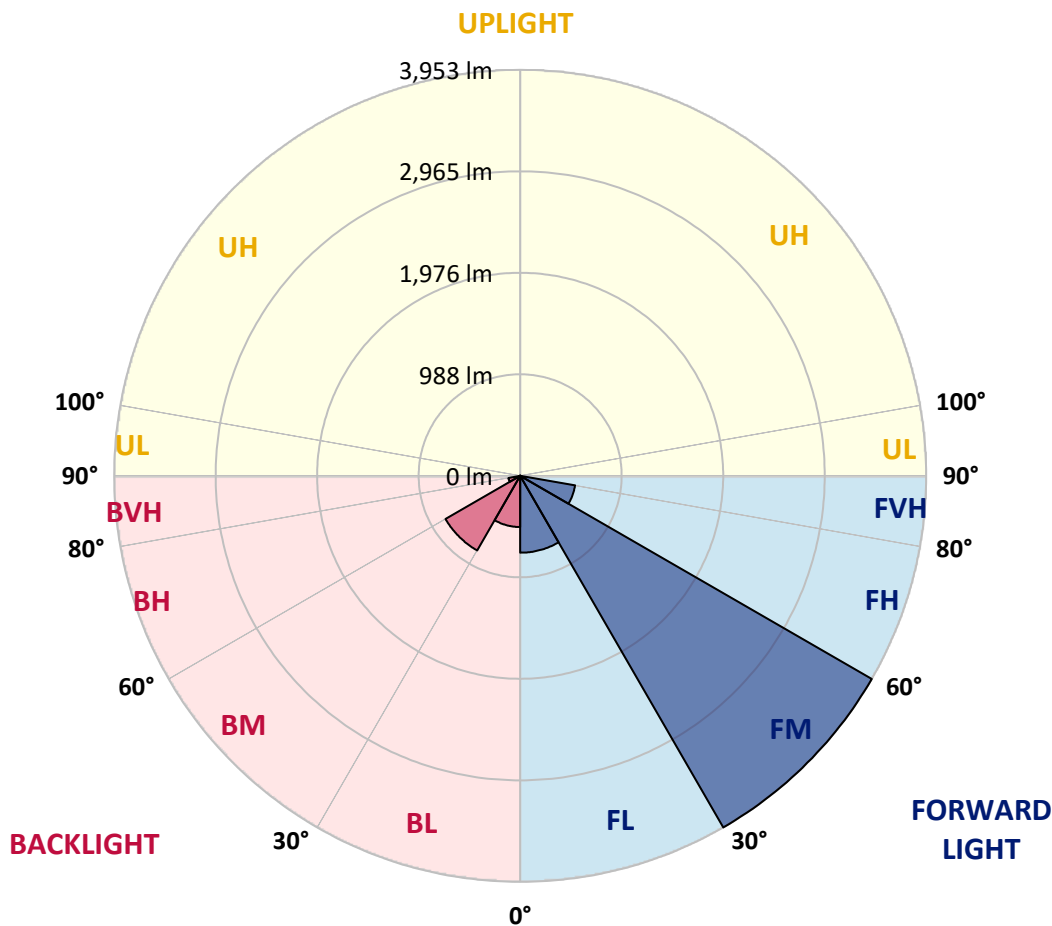
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	748.6	11.2			
FM	(30°-60°)	3953.0	58.9			
FH	(60°-80°)	543.1	8.1			G0/660
FVH	(80°-90°)	5.2	0.1			G0/10
BL	(0°-30°)	498.7	7.4	B1/500		
BM	(30°-60°)	839.3	12.5	B1/1000		
BH	(60°-80°)	115.9	1.7	B1/500		G1/500
BVH	(80°-90°)	5.2	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	1281.4	1281.4	1281.4	1281.4	1281.4	1281.4	1281.4	1281.4	1281.4	1281.4	1281.4
2.5°	1304.6	1298.5	1298.5	1288.8	1299.7	1294.9	1298.5	1286.3	1298.5	1280.2	1294.9
5°	1310.7	1312.0	1307.1	1313.2	1313.2	1320.5	1308.3	1319.3	1325.4	1312.0	1305.9
7.5°	1342.5	1344.9	1343.7	1338.8	1348.6	1347.4	1346.2	1337.6	1340.1	1335.2	1327.8
10°	1404.8	1403.6	1409.7	1397.5	1390.1	1398.7	1401.1	1387.7	1377.9	1374.3	1351.1
12.5°	1495.2	1480.5	1472.0	1459.8	1463.4	1451.2	1473.2	1450.0	1445.1	1423.1	1399.9
15°	1568.5	1566.0	1567.3	1547.7	1525.7	1530.6	1530.6	1518.4	1511.1	1484.2	1451.2
17.5°	1718.7	1667.4	1678.4	1654.0	1635.7	1634.5	1623.5	1625.9	1606.4	1550.2	1500.1
20°	1836.0	1814.0	1796.9	1755.4	1727.3	1735.8	1731.0	1718.7	1712.6	1639.3	1568.5
22.5°	1941.1	1948.4	1920.3	1909.3	1870.2	1873.9	1883.7	1872.7	1826.2	1750.5	1645.4
25°	2088.9	2080.3	2042.5	2029.0	1992.4	2005.8	2043.7	2035.1	2005.8	1869.0	1705.3
27.5°	2263.6	2234.2	2241.6	2180.5	2145.1	2182.9	2228.1	2270.9	2187.8	2008.3	1776.2
30°	2386.9	2356.4	2354.0	2351.5	2343.0	2386.9	2439.5	2478.6	2411.4	2147.5	1893.4
32.5°	2448.0	2455.3	2476.1	2468.8	2543.3	2633.7	2688.7	2744.9	2660.6	2374.7	2048.6
35°	2610.5	2564.1	2610.5	2615.4	2692.3	2884.1	2953.7	3088.1	3067.4	2696.0	2237.9
37.5°	2705.8	2702.1	2708.2	2754.6	2829.1	3066.1	3165.1	3268.9	3229.8	2889.0	2473.7
40°	2863.3	2873.1	2871.9	2907.3	2989.2	3202.9	3243.3	3327.5	3331.2	3156.5	2820.6
42.5°	3116.2	3077.1	3051.5	3088.1	3202.9	3321.4	3402.1	3385.0	3505.9	3481.5	3266.5
45°	3343.4	3366.6	3328.8	3389.8	3431.4	3494.9	3492.5	3529.1	3683.0	3799.1	3602.4
47.5°	3556.0	3570.6	3589.0	3630.5	3720.9	3730.7	3709.9	3694.0	3906.6	4026.3	3862.6
50°	3683.0	3696.5	3782.0	3856.5	4025.1	4047.0	4059.3	4018.9	4163.1	4176.5	4108.1
52.5°	3648.8	3663.5	3783.2	4028.7	4297.5	4499.0	4462.4	4394.0	4385.4	4437.9	4335.3
55°	3345.9	3332.4	3497.3	3879.7	4383.0	4866.7	4871.6	4799.5	4661.5	4626.1	4301.1
56°	3088.1	3035.6	3245.7	3707.5	4273.0	4835.0	4889.9	4813.0	4683.5	4524.7	4089.8
57.5°	2529.9	2579.9	2788.8	3171.2	3893.1	4606.5	4638.3	4620.0	4522.2	4255.9	3598.7
60°	1395.0	1483.0	1667.4	2135.3	2771.7	3535.2	3560.9	3709.9	3728.2	3259.1	2476.1
62.5°	592.5	582.7	774.5	1119.0	1578.3	2134.1	2181.7	2334.4	2362.5	1878.8	1242.3
65°	240.6	254.1	350.6	563.1	834.3	972.4	1039.6	1089.6	1182.5	775.7	458.1
67.5°	158.8	157.6	206.4	321.3	449.5	433.7	433.7	458.1	423.9	316.4	197.9
70°	113.6	117.3	147.8	222.3	279.7	207.7	199.1	190.6	216.2	208.9	160.0
72.5°	74.5	79.4	98.9	133.2	145.4	113.6	113.6	136.8	178.3	168.6	130.7
75°	48.9	50.1	61.1	77.0	72.1	58.6	64.7	91.6	129.5	124.6	92.8
77.5°	33.0	34.2	41.5	50.1	40.3	33.0	35.4	46.4	63.5	63.5	48.9
80°	12.2	13.4	17.1	15.9	18.3	23.2	25.7	31.8	37.9	37.9	33.0
82.5°	0.0	1.2	3.7	8.6	13.4	18.3	20.8	24.4	28.1	31.8	30.5
85°	0.0	1.2	3.7	6.1	9.8	11.0	12.2	8.6	7.3	7.3	6.1
87.5°	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	2.4	1.2	1.2
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°	1281.4	1281.4	1281.4	1281.4	1281.4	1281.4	1281.4	1281.4	1281.4	1281.4	1281.4
2.5°	1281.4	1280.2	1280.2	1276.5	1283.9	1280.2	1282.6	1281.4	1265.5	1277.8	1269.2
5°	1294.9	1303.4	1290.0	1287.5	1277.8	1281.4	1281.4	1269.2	1280.2	1279.0	1276.5
7.5°	1329.1	1314.4	1299.7	1285.1	1282.6	1279.0	1265.5	1260.7	1269.2	1259.4	1274.1
10°	1343.7	1346.2	1324.2	1304.6	1286.3	1260.7	1242.3	1231.3	1217.9	1232.6	1241.1
12.5°	1410.9	1386.5	1348.6	1318.1	1255.8	1230.1	1211.8	1206.9	1230.1	1235.0	1226.5
15°	1434.1	1430.5	1381.6	1313.2	1248.4	1217.9	1221.6	1211.8	1214.2	1202.0	1204.5
17.5°	1481.8	1440.2	1382.8	1297.3	1247.2	1239.9	1217.9	1178.8	1156.8	1147.0	1155.6
20°	1534.3	1494.0	1410.9	1303.4	1258.2	1238.7	1166.6	1119.0	1073.8	1049.3	1050.5
22.5°	1580.7	1530.6	1398.7	1305.9	1268.0	1187.4	1100.6	1006.6	950.4	912.5	913.7
25°	1636.9	1566.0	1403.6	1310.7	1242.3	1105.5	980.9	889.3	822.1	796.5	805.0
27.5°	1668.7	1588.0	1430.5	1321.7	1175.1	989.5	855.1	769.6	730.5	718.3	717.1
30°	1763.9	1636.9	1463.4	1299.7	1062.8	864.9	740.3	687.7	649.9	638.9	641.3
32.5°	1905.6	1726.1	1506.2	1242.3	947.9	753.7	665.8	626.7	591.2	570.5	568.0
35°	2024.1	1878.8	1551.4	1153.2	814.8	668.2	613.2	564.4	510.6	487.4	481.3
37.5°	2250.1	2051.0	1541.6	1018.8	687.7	604.7	557.0	497.2	450.8	419.0	415.3
40°	2550.6	2252.6	1494.0	855.1	593.7	548.5	497.2	439.8	382.3	355.5	353.0
42.5°	2915.9	2499.3	1407.2	689.0	499.6	492.3	445.9	379.9	328.6	309.1	310.3
45°	3212.7	2710.7	1319.3	553.4	430.0	437.3	397.0	334.7	299.3	283.4	283.4
47.5°	3476.6	2853.6	1224.0	456.9	365.2	382.3	346.9	310.3	279.7	267.5	265.1
50°	3730.7	2998.9	1128.7	370.1	311.5	328.6	324.9	295.6	271.2	256.5	257.8
52.5°	3889.5	3022.2	1007.8	302.9	272.4	292.0	304.2	277.3	250.4	241.9	239.4
55°	3695.2	2722.9	781.8	249.2	230.9	256.5	279.7	249.2	228.4	213.8	212.6
56°	3433.8	2434.6	653.5	229.7	218.7	246.8	271.2	238.2	215.0	206.4	200.3
57.5°	2907.3	1992.4	482.5	204.0	202.8	229.7	257.8	227.2	200.3	193.0	193.0
60°	1812.8	1121.4	292.0	171.0	175.9	204.0	232.1	202.8	178.3	178.3	182.0
62.5°	825.8	466.6	177.1	145.4	151.5	175.9	206.4	183.2	169.8	183.2	185.7
65°	281.0	201.6	128.3	116.0	119.7	145.4	177.1	185.7	184.5	193.0	197.9
67.5°	157.6	129.5	107.5	96.5	94.1	107.5	145.4	185.7	178.3	174.7	177.1
70°	133.2	109.9	95.3	85.5	81.8	86.7	112.4	140.5	125.8	122.2	119.7
72.5°	107.5	91.6	83.1	77.0	66.0	56.2	51.3	53.7	59.9	63.5	69.6
75°	75.7	69.6	69.6	62.3	47.6	35.4	28.1	23.2	15.9	11.0	12.2
77.5°	42.8	42.8	44.0	37.9	30.5	23.2	17.1	12.2	6.1	2.4	1.2
80°	29.3	31.8	34.2	30.5	25.7	20.8	14.7	8.6	3.7	0.0	0.0
82.5°	29.3	33.0	35.4	30.5	25.7	19.5	14.7	8.6	3.7	1.2	0.0
85°	6.1	7.3	8.6	9.8	14.7	14.7	11.0	7.3	3.7	1.2	0.0
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	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)