

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: P529045

Luminaire Tested: **GALN-SA4A-830-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529045
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-SA4A-830-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA 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: 8480 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

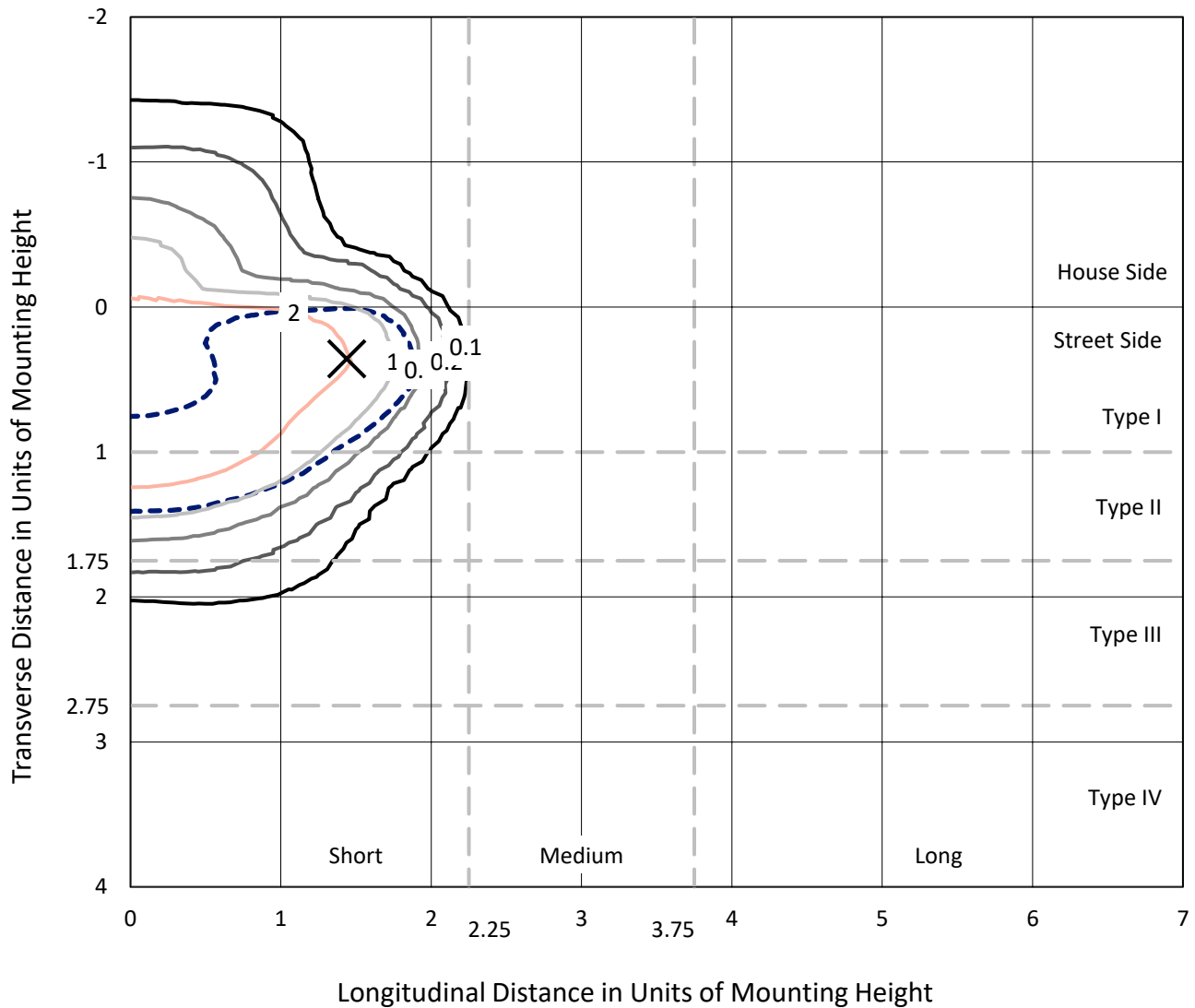
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

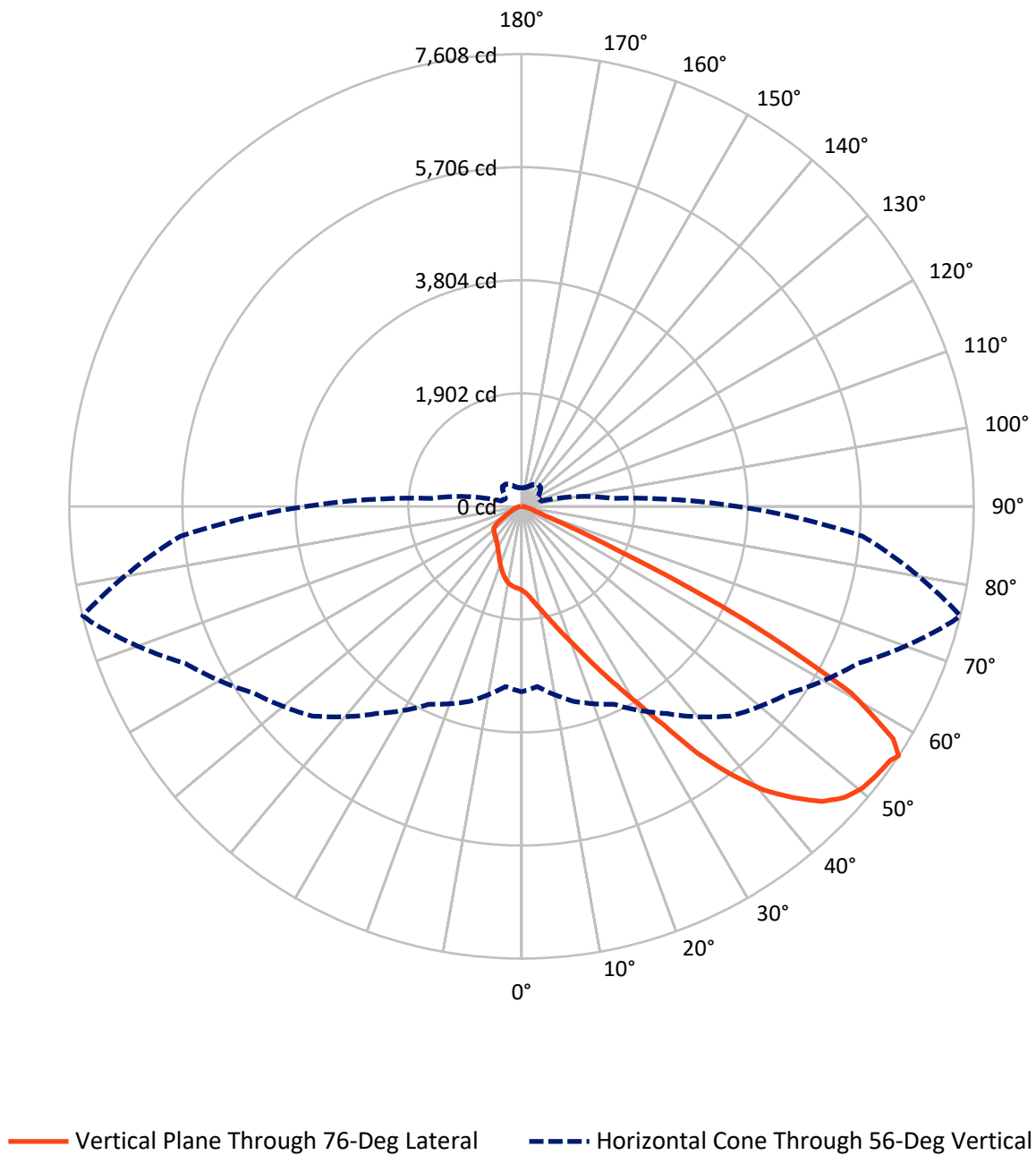
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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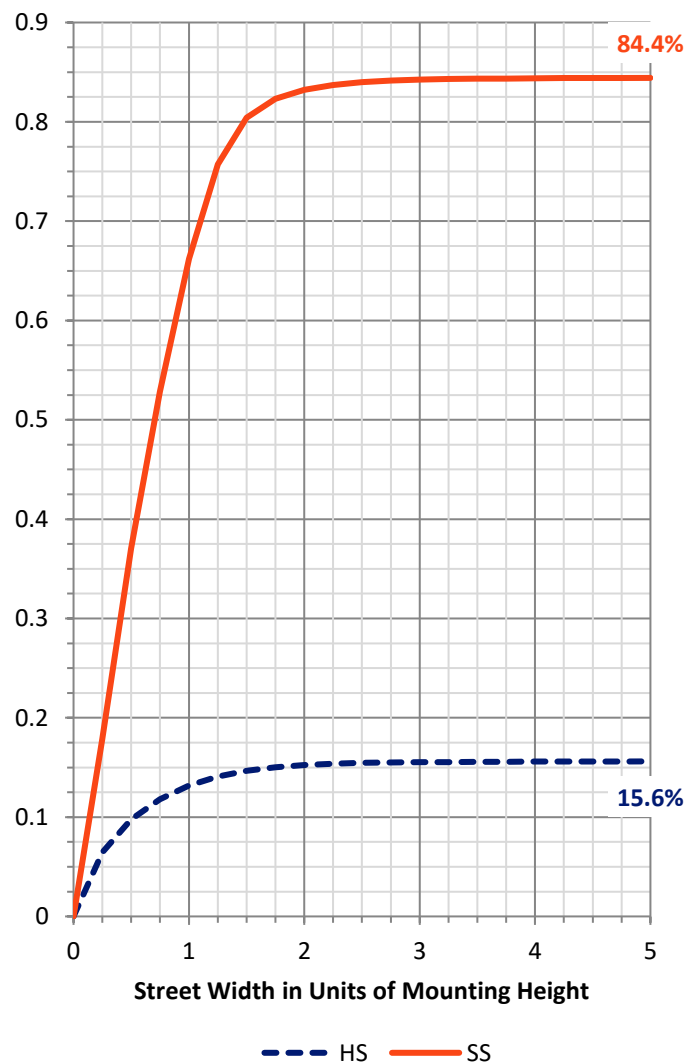
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1332.2	0.0	1332.2
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	7147.8	0.0	7147.8
	% Fixture	84.3	0.0	84.3
Total	Lumens	8480.0	0.0	8480.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.2	1.7
10°-20°	456.8	5.4
20°-30°	828.3	9.8
30°-40°	1428.5	16.8
40°-50°	2320.6	27.4
50°-60°	2446.0	28.8
60°-70°	747.4	8.8
70°-80°	95.8	1.1
80°-90°	14.6	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°	8480.0	100.0
0°-180°	8480.0	100.0

Coefficient of Utilization



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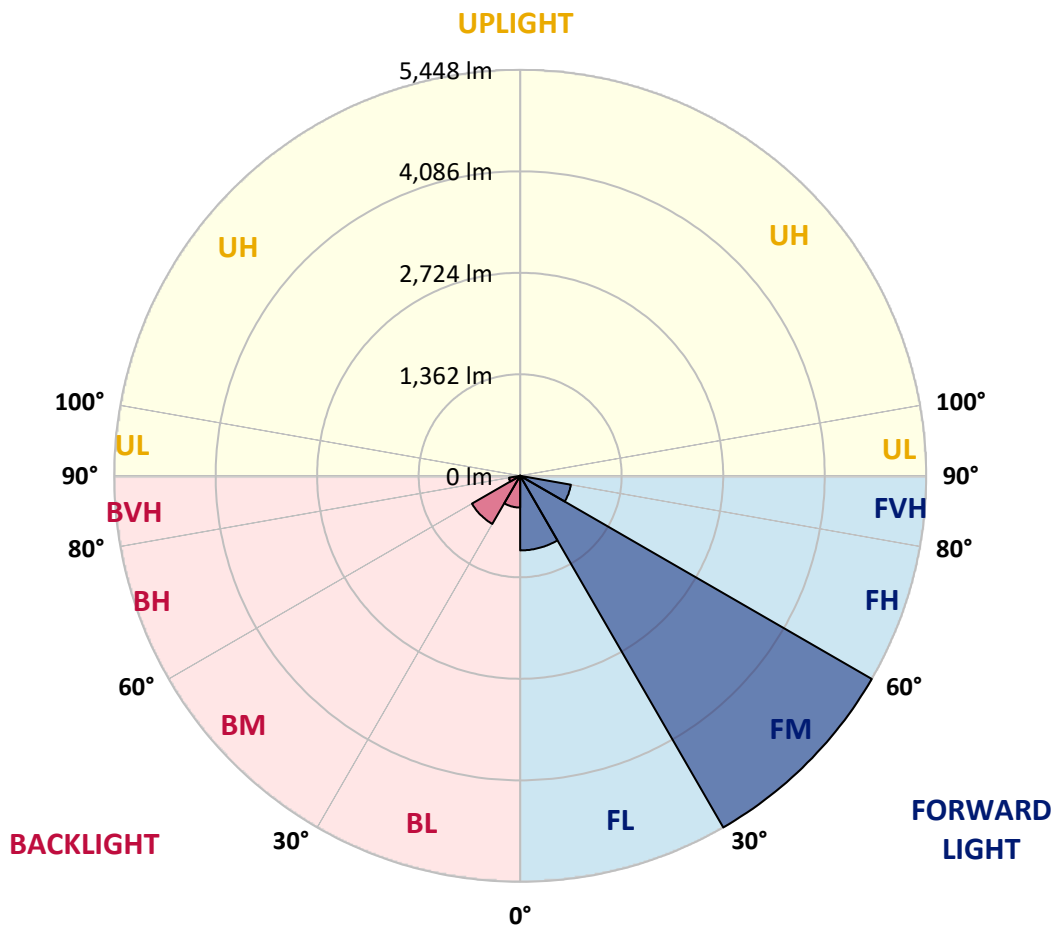
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1001.1	11.8			
FM	(30°-60°)	5448.4	64.2			
FH	(60°-80°)	691.2	8.2			G1/1800
FVH	(80°-90°)	7.1	0.1			G0/10
BL	(0°-30°)	426.2	5.0	B1/500		
BM	(30°-60°)	746.6	8.8	B1/1000		
BH	(60°-80°)	152.0	1.8	B1/500		G1/500
BVH	(80°-90°)	7.4	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°	55°	65°	75°	76°	85°
0°	1411.5	1411.5	1411.5	1411.5	1411.5	1411.5	1411.5	1411.5	1411.5	1411.5	1411.5
2.5°	1625.7	1588.1	1589.7	1586.6	1581.9	1564.7	1513.1	1505.3	1470.9	1461.5	1430.3
5°	1821.0	1788.2	1807.0	1778.8	1752.3	1736.6	1652.2	1613.2	1558.4	1538.1	1494.4
7.5°	1943.0	1927.3	1921.1	1922.7	1897.6	1858.6	1821.0	1735.1	1661.6	1646.0	1553.8
10°	2002.4	1993.0	2002.4	1997.7	2008.6	2013.3	1947.7	1896.1	1788.2	1761.7	1617.8
12.5°	2016.4	2035.2	2043.0	2063.3	2089.9	2135.2	2130.5	2060.2	1916.4	1899.2	1716.3
15°	2050.8	2066.5	2058.6	2091.5	2141.5	2218.1	2258.7	2247.8	2093.0	2061.8	1830.4
17.5°	2082.1	2054.0	2080.5	2146.2	2196.2	2313.4	2411.9	2457.2	2285.3	2249.3	1935.2
20°	2124.3	2116.5	2111.8	2144.6	2233.7	2390.0	2585.4	2668.3	2501.0	2463.5	2085.2
22.5°	2252.5	2254.0	2250.9	2202.5	2266.5	2443.2	2737.0	2941.8	2758.9	2727.7	2255.6
25°	2421.3	2401.0	2385.3	2346.3	2338.4	2491.6	2890.2	3276.3	3068.4	3046.5	2440.1
27.5°	2599.5	2599.5	2552.6	2516.6	2466.6	2612.0	3030.9	3601.5	3442.0	3412.3	2601.1
30°	2793.3	2804.3	2798.0	2721.4	2690.2	2743.3	3174.7	4017.3	3870.3	3832.8	2866.8
32.5°	3079.4	3055.9	3082.5	3018.4	2926.2	2973.1	3401.4	4389.3	4426.8	4373.6	3215.4
35°	3457.6	3443.6	3426.4	3321.7	3212.2	3249.8	3721.8	4847.3	5125.5	5098.9	3567.1
37.5°	3796.8	3789.0	3775.0	3703.1	3576.4	3621.8	4086.0	5324.0	5807.0	5719.5	4064.1
40°	4153.2	4195.4	4150.1	4086.0	3970.4	4070.4	4514.3	5607.0	6380.7	6274.4	4444.0
42.5°	4636.3	4603.4	4623.7	4506.5	4444.0	4553.4	4944.2	5889.9	6826.2	6699.6	4847.3
45°	5150.5	5152.1	5097.4	5059.9	4897.3	5016.1	5208.4	6046.2	7181.0	7082.6	5152.1
47.5°	5480.3	5478.8	5538.2	5597.6	5430.3	5313.1	5388.1	6194.7	7363.9	7318.6	5263.1
50°	5428.8	5444.4	5521.0	5742.9	5830.5	5672.6	5556.9	6150.9	7446.8	7442.1	5358.4
52.5°	4722.2	4773.8	4902.0	5222.4	5663.2	5858.6	5733.6	6232.2	7487.4	7495.2	5500.7
55°	3595.2	3623.3	3867.2	4256.4	4744.1	5413.1	5663.2	6296.3	7518.7	7532.7	5672.6
56°	3118.4	3043.4	3395.1	3671.8	4254.8	4986.4	5485.0	6246.3	7499.9	7607.8	5758.6
57.5°	2354.1	2304.1	2588.5	2934.0	3495.2	4267.4	4931.7	6010.2	7373.3	7371.7	5635.1
60°	1431.8	1381.8	1600.6	1803.9	2118.0	2627.6	3332.6	4786.3	6233.8	6365.1	4562.8
62.5°	851.9	883.2	1098.9	1222.4	1324.0	1377.1	1724.1	2844.9	4159.5	4253.3	2830.8
65°	567.4	578.4	740.9	944.1	989.5	787.8	701.8	1152.0	1803.9	1746.0	1167.7
67.5°	350.1	375.2	497.1	709.7	786.3	575.2	332.9	429.9	497.1	497.1	337.6
70°	212.6	225.1	331.4	483.0	539.3	370.5	242.3	242.3	239.2	234.5	201.6
72.5°	101.6	109.4	168.8	248.5	253.2	195.4	187.6	204.8	200.1	198.5	167.3
75°	43.8	46.9	59.4	78.2	89.1	82.8	114.1	146.9	151.6	146.9	120.4
77.5°	14.1	15.6	21.9	28.1	29.7	36.0	48.5	61.0	70.3	65.7	59.4
80°	1.6	3.1	6.3	14.1	21.9	28.1	36.0	40.6	45.3	45.3	42.2
82.5°	1.6	1.6	6.3	12.5	20.3	26.6	34.4	39.1	45.3	46.9	43.8
85°	0.0	1.6	4.7	10.9	17.2	17.2	15.6	15.6	10.9	10.9	10.9
87.5°	0.0	0.0	1.6	1.6	1.6	3.1	3.1	3.1	3.1	3.1	3.1
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°	1411.5	1411.5	1411.5	1411.5	1411.5	1411.5	1411.5	1411.5	1411.5	1411.5	1411.5
2.5°	1424.0	1420.9	1378.7	1352.1	1338.0	1309.9	1292.7	1280.2	1270.8	1259.9	1261.4
5°	1442.8	1431.8	1361.5	1313.0	1255.2	1223.9	1197.4	1175.5	1161.4	1158.3	1152.0
7.5°	1495.9	1438.1	1331.8	1244.3	1170.8	1139.5	1116.1	1102.0	1108.3	1094.2	1105.1
10°	1536.6	1450.6	1295.8	1169.2	1095.8	1072.3	1059.8	1070.7	1086.4	1080.1	1072.3
12.5°	1586.6	1463.1	1238.0	1097.3	1028.5	1011.3	1033.2	1053.6	1084.8	1097.3	1081.7
15°	1642.9	1477.2	1164.5	1014.5	970.7	984.8	1022.3	1058.2	1089.5	1105.1	1114.5
17.5°	1711.6	1472.5	1092.6	948.8	916.0	956.6	1002.0	1034.8	1081.7	1105.1	1098.9
20°	1775.7	1456.8	1012.9	883.2	884.7	922.2	959.8	1012.9	1037.9	1069.2	1058.2
22.5°	1836.7	1428.7	930.1	837.8	837.8	895.7	914.4	948.8	970.7	986.3	984.8
25°	1922.7	1375.6	861.3	794.1	812.8	850.3	866.0	876.9	867.5	880.0	881.6
27.5°	1983.6	1320.8	805.0	755.0	789.4	817.5	812.8	806.6	784.7	767.5	778.4
30°	2049.3	1256.8	756.6	728.4	747.2	772.2	753.4	734.7	700.3	672.1	673.7
32.5°	2143.1	1227.1	714.4	697.2	722.2	725.3	705.0	676.8	642.4	615.9	614.3
35°	2318.1	1208.3	678.4	676.8	681.5	683.1	662.8	628.4	614.3	592.4	600.2
37.5°	2493.2	1198.9	653.4	647.1	645.6	647.1	623.7	590.9	617.4	615.9	619.0
40°	2716.7	1241.1	617.4	609.6	611.2	611.2	581.5	572.1	619.0	623.7	625.3
42.5°	2943.4	1294.3	594.0	569.0	575.2	575.2	559.6	548.7	581.5	550.2	545.5
45°	3140.3	1372.4	569.0	528.3	544.0	551.8	547.1	528.3	508.0	454.9	454.9
47.5°	3204.4	1441.2	539.3	489.3	501.8	536.2	522.1	483.0	447.1	403.3	400.2
50°	3317.0	1516.2	515.8	443.9	470.5	512.7	498.6	459.6	418.9	387.7	389.2
52.5°	3432.6	1602.2	472.1	390.8	423.6	493.9	493.9	450.2	387.7	365.8	362.6
55°	3606.1	1599.1	393.9	320.4	378.3	465.8	473.6	403.3	347.0	329.8	329.8
56°	3631.2	1527.2	354.8	300.1	358.0	458.0	459.6	390.8	331.4	312.6	312.6
57.5°	3443.6	1378.7	311.1	275.1	332.9	443.9	445.5	379.8	318.9	292.3	289.2
60°	2649.5	933.2	259.5	245.4	301.7	400.2	408.0	345.5	279.8	259.5	257.9
62.5°	1495.9	517.4	228.2	222.0	259.5	340.8	364.2	301.7	237.6	226.7	229.8
65°	683.1	284.5	192.3	179.8	209.5	262.6	293.9	248.5	195.4	182.9	182.9
67.5°	250.1	193.8	164.1	142.2	146.9	170.4	190.7	161.0	129.7	111.0	115.7
70°	178.2	162.6	143.8	123.5	114.1	111.0	109.4	90.7	64.1	50.0	53.1
72.5°	143.8	134.4	120.4	104.7	89.1	75.0	64.1	46.9	29.7	20.3	18.8
75°	103.2	98.5	87.5	75.0	62.5	53.1	43.8	29.7	15.6	7.8	7.8
77.5°	53.1	53.1	51.6	46.9	39.1	31.3	25.0	17.2	9.4	3.1	3.1
80°	40.6	43.8	45.3	40.6	36.0	28.1	20.3	12.5	6.3	1.6	1.6
82.5°	39.1	45.3	48.5	42.2	36.0	26.6	20.3	12.5	6.3	1.6	1.6
85°	9.4	9.4	14.1	15.6	20.3	21.9	17.2	10.9	4.7	1.6	1.6
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	1.6	1.6	1.6	1.6	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)