

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: P647223

Luminaire Tested: **GALN-SA1D-835-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647223  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-835-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5999.3 lumens  
Efficiency: N/A  
Efficacy: 92.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

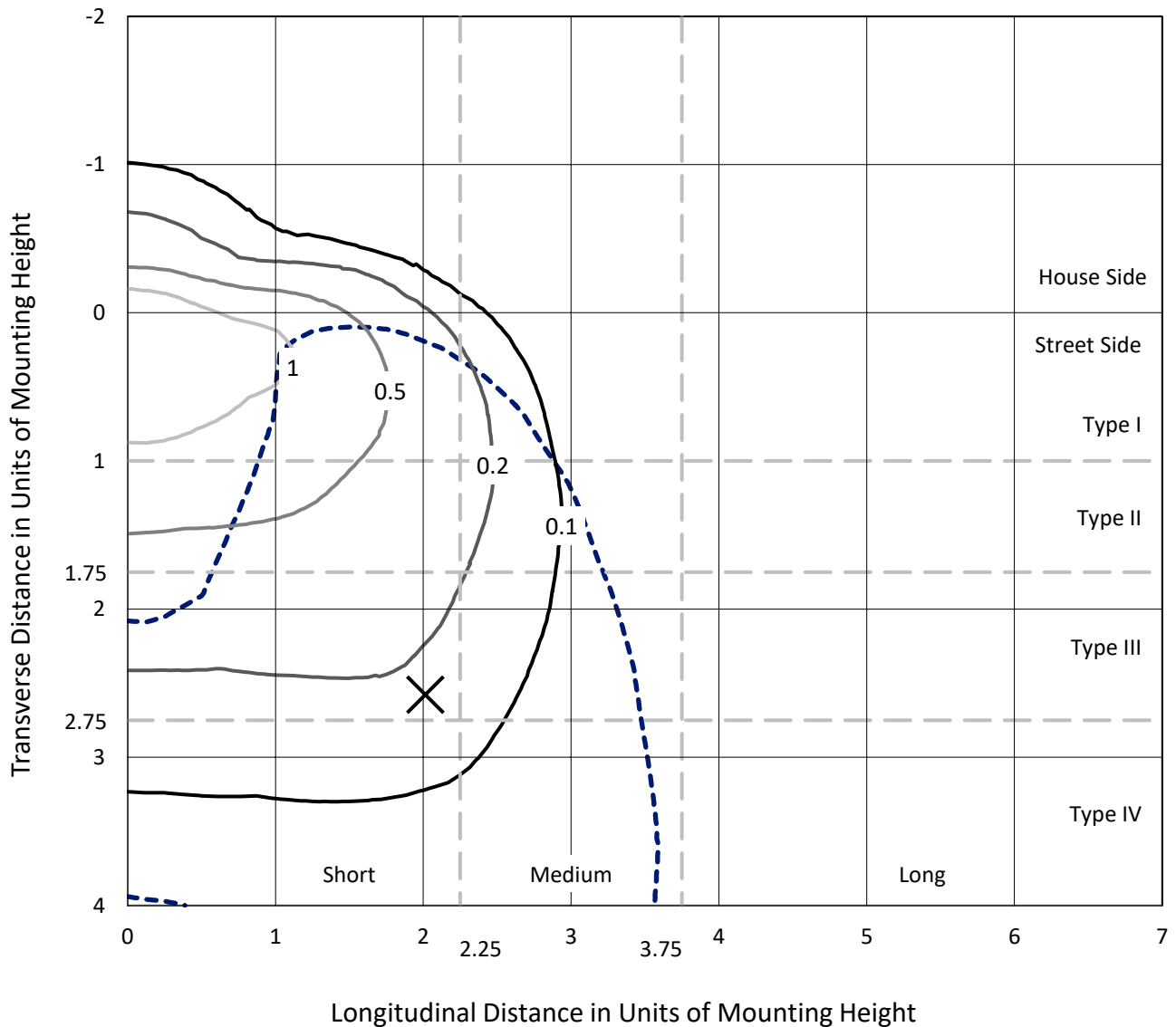
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

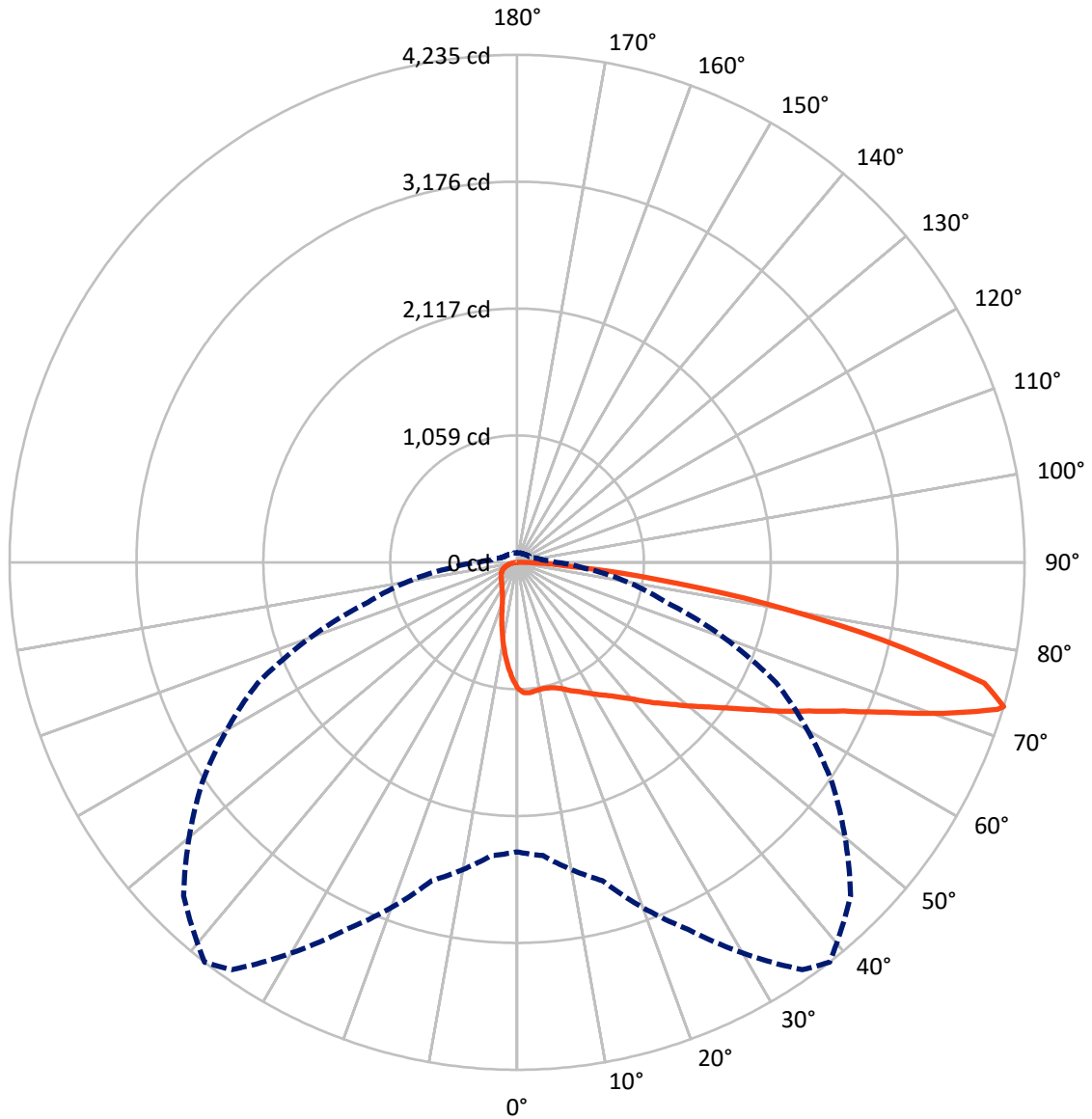
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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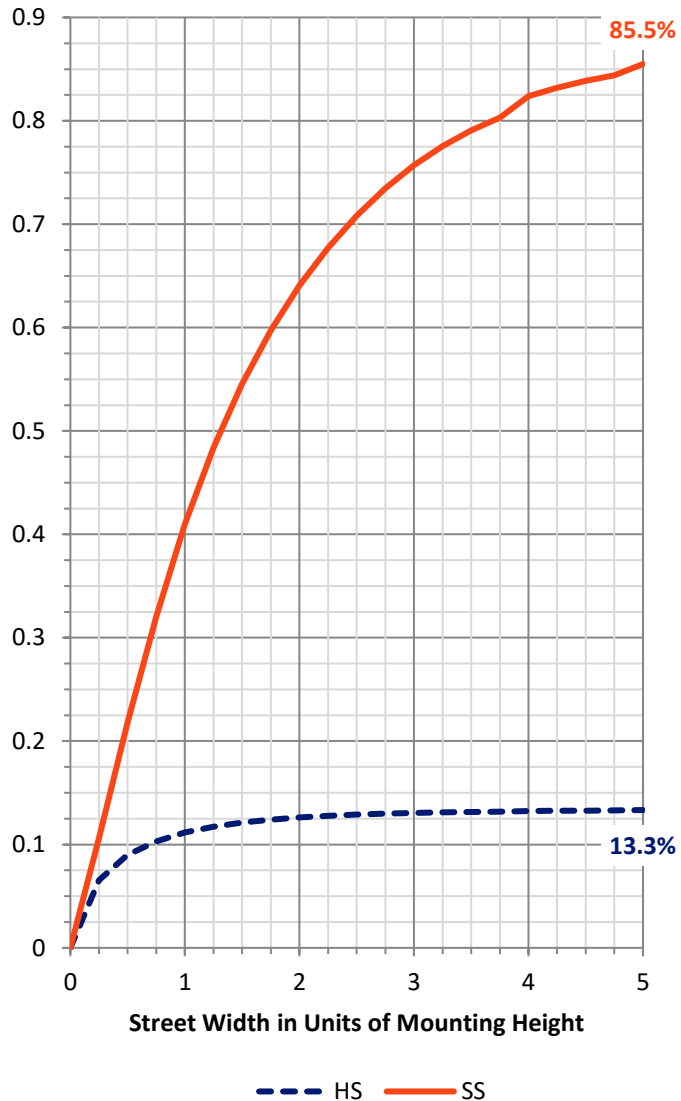
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	806.5	0.0	806.5
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	5192.9	0.0	5192.9
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	5999.3	0.0	5999.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.0	1.5
10°-20°	235.9	3.9
20°-30°	367.4	6.1
30°-40°	538.9	9.0
40°-50°	799.3	13.3
50°-60°	1132.5	18.9
60°-70°	1436.6	23.9
70°-80°	1195.9	19.9
80°-90°	200.9	3.3
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°	5999.3	100.0
0°-180°	5999.3	100.0

**Coefficient of Utilization**

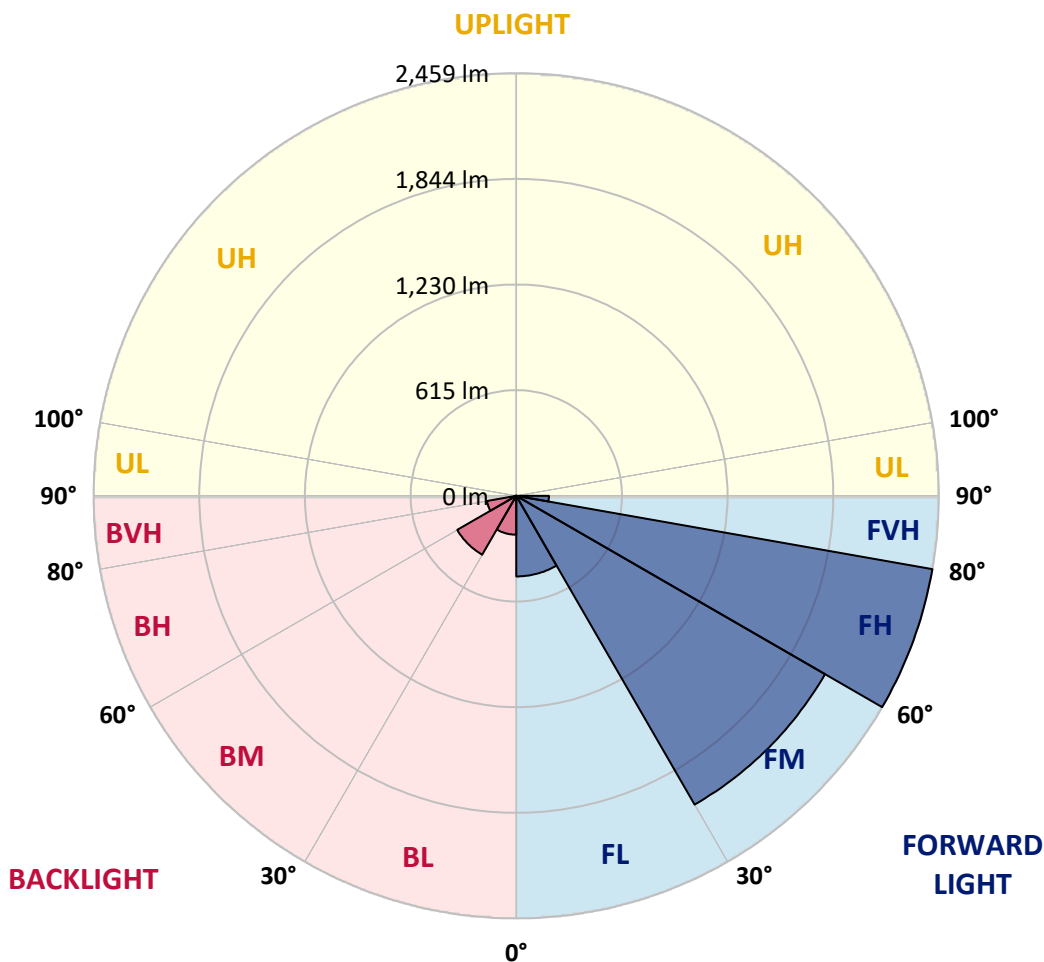


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	469.0	7.8			
FM (30°-60°)	2074.7	34.6			
FH (60°-80°)	2459.1	41.0			G2/5000
FVH (80°-90°)	190.0	3.2			G2/225
BL (0°-30°)	226.3	3.8	B1/500		
BM (30°-60°)	395.9	6.6	B1/1000		
BH (60°-80°)	173.3	2.9	B1/500		G1/500
BVH (80°-90°)	10.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1054.0	1054.0	1054.0	1054.0	1054.0	1054.0	1054.0	1054.0	1054.0	1054.0	1054.0
2.5°	1096.4	1101.8	1099.0	1095.3	1092.9	1090.6	1087.2	1077.3	1069.6	1061.1	1047.9
5°	1104.5	1107.9	1105.5	1100.7	1095.3	1092.9	1086.5	1073.6	1061.1	1046.9	1027.2
7.5°	1099.7	1101.1	1098.4	1092.6	1087.9	1083.4	1076.0	1061.7	1046.6	1029.3	1003.5
10°	1082.8	1087.9	1087.9	1083.1	1078.3	1076.0	1068.6	1055.0	1041.1	1021.4	991.0
12.5°	1068.9	1074.3	1078.7	1077.3	1077.0	1077.0	1071.3	1061.1	1044.8	1026.2	989.9
15°	1059.4	1065.8	1075.3	1080.8	1084.1	1085.2	1082.8	1074.0	1057.4	1035.7	994.0
17.5°	1057.4	1065.2	1082.4	1094.3	1103.1	1102.8	1102.1	1089.9	1071.6	1049.2	999.1
20°	1066.5	1076.7	1100.7	1119.4	1132.2	1129.9	1126.1	1110.2	1088.9	1063.8	1003.8
22.5°	1093.9	1104.5	1130.9	1151.2	1163.8	1163.8	1152.6	1131.6	1108.9	1080.8	1010.3
25°	1133.2	1144.7	1172.9	1193.5	1199.3	1194.9	1183.7	1158.4	1132.2	1105.1	1023.9
27.5°	1181.4	1195.2	1221.3	1238.6	1236.9	1233.5	1222.0	1189.5	1163.4	1138.7	1046.9
30°	1241.4	1251.5	1278.6	1282.6	1276.6	1275.9	1259.6	1227.1	1202.7	1183.7	1079.8
32.5°	1297.9	1307.1	1328.8	1330.5	1319.6	1320.9	1305.7	1275.9	1262.0	1255.2	1135.0
35°	1357.9	1362.7	1381.3	1379.3	1372.1	1371.1	1365.0	1336.5	1341.0	1353.1	1213.2
37.5°	1408.0	1417.5	1428.0	1429.7	1429.4	1432.7	1436.8	1423.3	1448.7	1487.0	1315.8
40°	1454.1	1462.3	1477.8	1483.2	1496.5	1503.2	1517.1	1517.5	1576.1	1639.1	1442.2
42.5°	1485.3	1499.1	1528.3	1538.1	1570.3	1590.7	1611.3	1633.3	1718.4	1799.3	1591.3
45°	1512.4	1530.7	1579.1	1609.6	1653.3	1678.0	1721.7	1767.9	1890.2	1996.2	1742.7
47.5°	1553.4	1569.6	1625.2	1679.1	1745.2	1773.6	1839.0	1907.8	2067.7	2183.9	1887.7
50°	1610.3	1620.1	1676.7	1764.4	1848.8	1885.4	1971.8	2071.0	2257.4	2369.2	2015.1
52.5°	1683.1	1687.2	1732.2	1849.1	1960.2	2005.7	2120.1	2236.0	2423.4	2530.1	2116.1
55°	1769.2	1762.4	1797.6	1938.9	2087.6	2146.9	2269.9	2403.0	2610.1	2660.2	2189.6
57.5°	1854.2	1843.7	1871.8	2048.0	2244.9	2316.3	2459.6	2575.1	2776.8	2781.8	2241.1
60°	1944.3	1936.5	1970.1	2176.0	2437.6	2522.3	2654.8	2753.7	2938.0	2866.5	2249.2
62.5°	2036.8	2024.3	2072.1	2320.0	2654.8	2731.7	2860.1	2943.5	3096.2	2898.0	2170.9
65°	2126.6	2120.8	2194.7	2491.1	2902.1	2989.5	3114.1	3170.8	3222.9	2850.6	1976.8
67.5°	2222.2	2233.7	2351.6	2719.5	3224.6	3334.4	3468.9	3415.7	3259.2	2625.9	1664.8
70°	2367.8	2375.3	2557.5	3018.6	3640.3	3772.8	3837.9	3502.8	3084.4	2199.4	1251.5
72.5°	2430.5	2463.4	2741.5	3332.7	4112.6	4193.6	3961.8	3308.6	2569.4	1494.0	657.6
73°	2416.6	2455.9	2750.0	3380.4	4149.5	4234.5	3935.4	3208.7	2388.5	1286.7	563.8
75°	2243.5	2291.9	2639.9	3340.5	4077.7	4026.9	3510.6	2734.7	1614.0	585.1	256.8
77.5°	1770.2	1784.1	2091.7	2697.4	3211.1	3116.9	2627.4	1709.2	659.3	217.5	145.7
80°	888.0	939.1	1179.0	1545.3	2147.3	2116.4	1658.4	808.4	274.8	127.7	96.5
82.5°	427.2	463.5	574.3	753.5	1186.5	1158.4	821.2	441.8	174.5	74.5	56.9
85°	275.1	302.2	365.6	359.5	487.9	465.8	368.9	334.4	103.4	39.0	39.6
87.5°	181.6	198.9	238.5	190.7	177.5	160.6	162.9	188.4	20.4	14.9	5.4
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°	1054.0	1054.0	1054.0	1054.0	1054.0	1054.0	1054.0	1054.0	1054.0	1054.0	1054.0
2.5°	1042.5	1038.0	1023.5	1009.3	995.7	982.8	974.4	963.2	955.7	957.8	960.8
5°	1016.4	1006.5	980.8	955.7	932.0	903.9	881.2	862.9	849.0	843.9	842.9
7.5°	988.9	972.3	935.4	892.4	852.1	817.1	776.8	756.8	733.5	725.4	722.6
10°	972.3	949.9	898.1	838.2	777.5	719.6	675.9	640.3	608.2	602.0	599.0
12.5°	967.6	938.1	868.3	791.1	710.4	639.3	574.6	527.8	496.7	489.5	479.0
15°	964.9	928.3	840.6	743.6	641.4	554.6	486.5	432.0	403.5	384.5	384.8
17.5°	962.5	917.1	809.4	691.8	581.7	481.8	406.5	357.4	331.4	321.2	320.2
20°	959.1	903.9	773.4	637.3	513.6	415.4	347.3	310.7	293.1	284.6	284.2
22.5°	957.8	891.1	738.2	581.7	453.3	364.2	308.0	282.2	271.0	265.3	265.3
25°	961.1	881.9	701.3	528.8	399.8	320.5	280.9	263.2	256.8	253.8	252.8
27.5°	971.6	877.8	664.7	476.0	350.6	290.6	262.5	250.4	245.6	243.3	243.6
30°	991.7	877.5	628.8	423.8	314.1	268.0	248.0	239.5	235.8	234.4	234.1
32.5°	1023.9	884.9	593.6	380.8	283.2	249.0	234.4	228.3	226.7	225.7	225.3
35°	1078.3	905.9	558.7	341.5	259.5	232.1	221.6	218.5	216.2	217.2	217.5
37.5°	1151.9	942.2	525.5	310.7	241.6	219.6	210.7	208.0	206.6	207.7	208.7
40°	1250.5	994.3	497.7	286.0	228.7	209.1	201.2	198.9	197.6	199.2	199.6
42.5°	1359.2	1054.6	474.7	266.6	218.1	200.2	192.8	190.0	189.0	190.0	190.4
45°	1471.0	1124.8	462.8	252.8	209.4	193.8	186.0	182.9	180.6	179.9	181.0
47.5°	1581.1	1185.8	462.4	244.3	202.2	188.0	179.5	176.2	173.1	171.4	171.1
50°	1670.9	1234.2	470.6	240.5	196.1	181.6	173.1	169.8	165.7	162.3	162.9
52.5°	1738.7	1265.7	474.3	238.8	192.8	174.8	166.3	163.3	158.6	154.2	154.2
55°	1782.4	1273.2	465.2	237.2	190.0	167.7	158.6	155.8	151.1	146.7	146.7
57.5°	1797.3	1250.1	432.3	233.1	187.4	161.6	150.7	148.4	144.7	140.2	139.6
60°	1762.8	1172.2	374.7	220.9	182.0	155.2	142.3	141.3	139.9	136.2	135.9
62.5°	1629.6	1006.9	312.0	205.0	172.8	148.4	134.5	136.2	137.2	135.1	134.8
65°	1408.0	817.5	266.6	182.9	160.6	138.9	126.1	130.4	133.1	133.1	132.5
67.5°	1142.1	627.8	224.6	164.0	145.3	126.1	116.5	120.0	122.0	121.3	123.0
70°	811.7	425.2	182.9	142.3	126.1	111.5	104.4	104.4	103.0	102.3	102.3
72.5°	393.7	242.9	148.4	118.9	107.4	95.2	89.4	87.1	84.3	84.0	82.3
73°	328.9	217.8	141.6	114.5	103.0	92.9	86.4	82.7	81.0	79.6	79.2
75°	200.2	165.4	118.2	96.5	87.8	79.9	74.2	70.8	69.1	68.1	67.7
77.5°	131.8	123.3	91.8	73.8	67.1	62.3	60.0	56.6	55.6	54.2	54.2
80°	98.3	94.2	65.7	52.1	48.1	44.0	43.4	42.7	40.0	38.3	37.6
82.5°	63.3	67.1	44.7	34.9	30.5	27.1	27.4	28.4	25.8	23.4	22.7
85°	45.0	48.5	27.1	15.9	12.8	11.2	12.5	11.2	11.5	9.2	7.4
87.5°	7.4	12.8	4.8	2.0	1.0	0.7	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)