

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: P945568

Luminaire Tested: **GALN-SB1C-727-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945568
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-SB1C-727-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7067 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 54.4
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



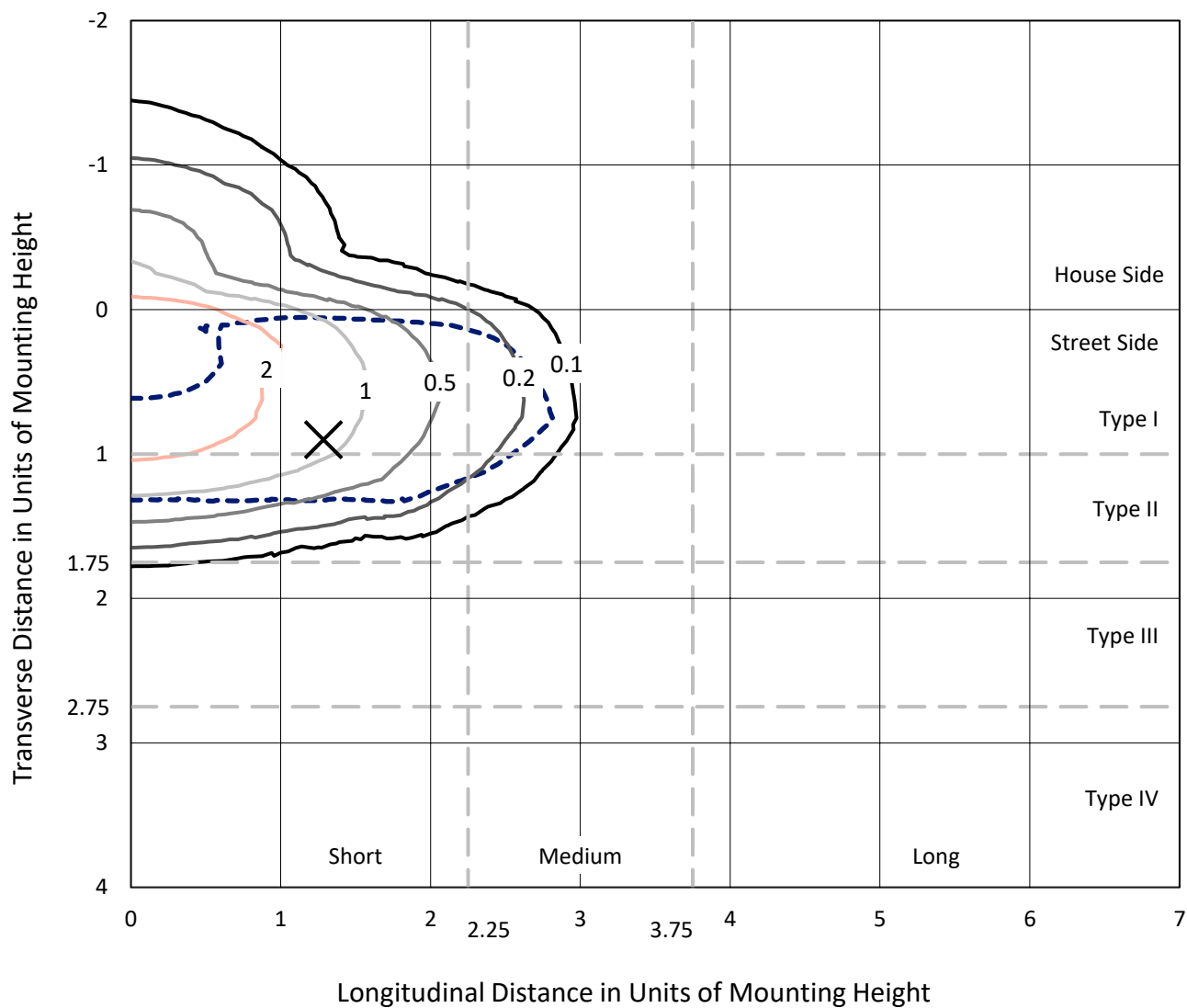
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

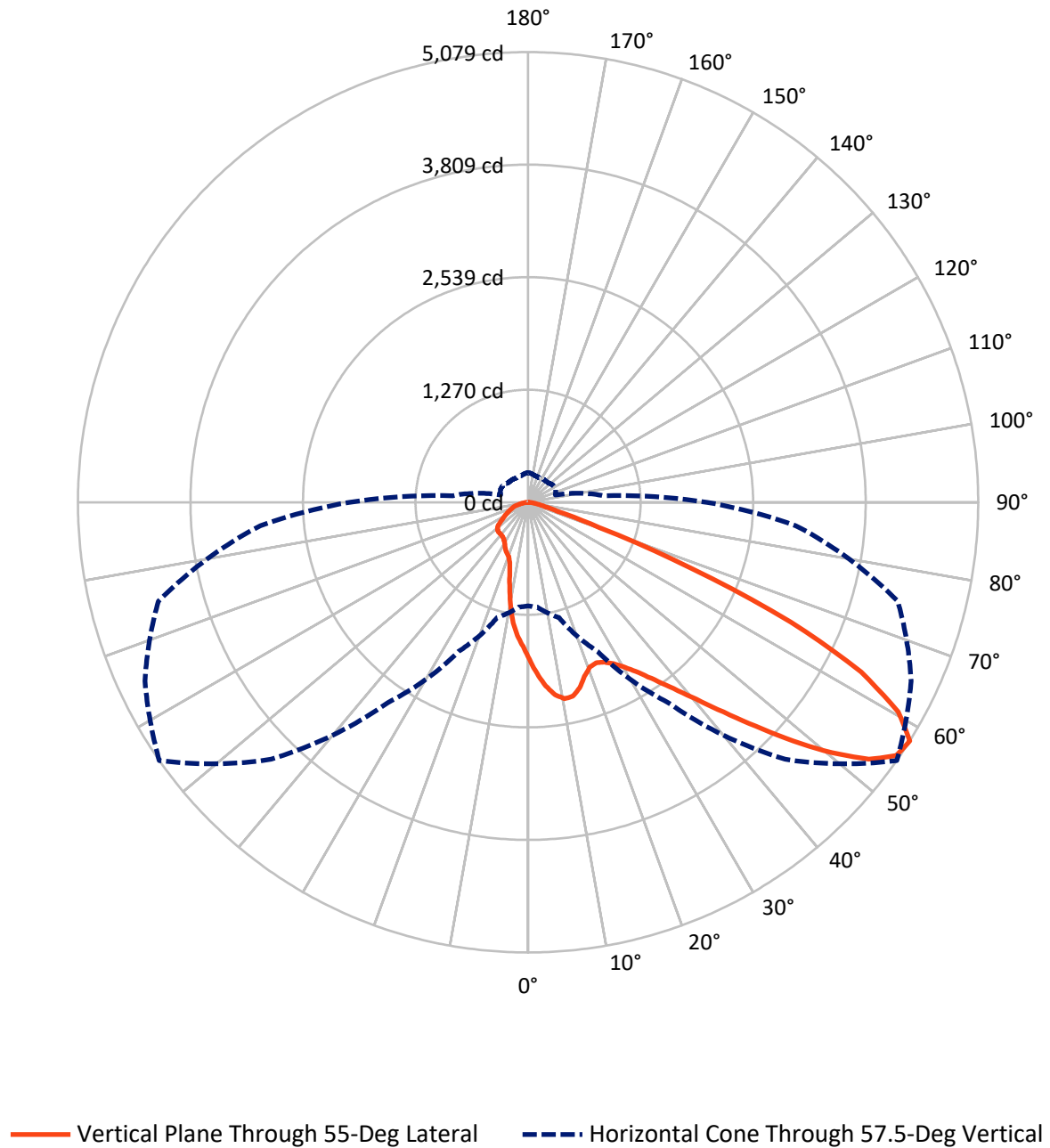


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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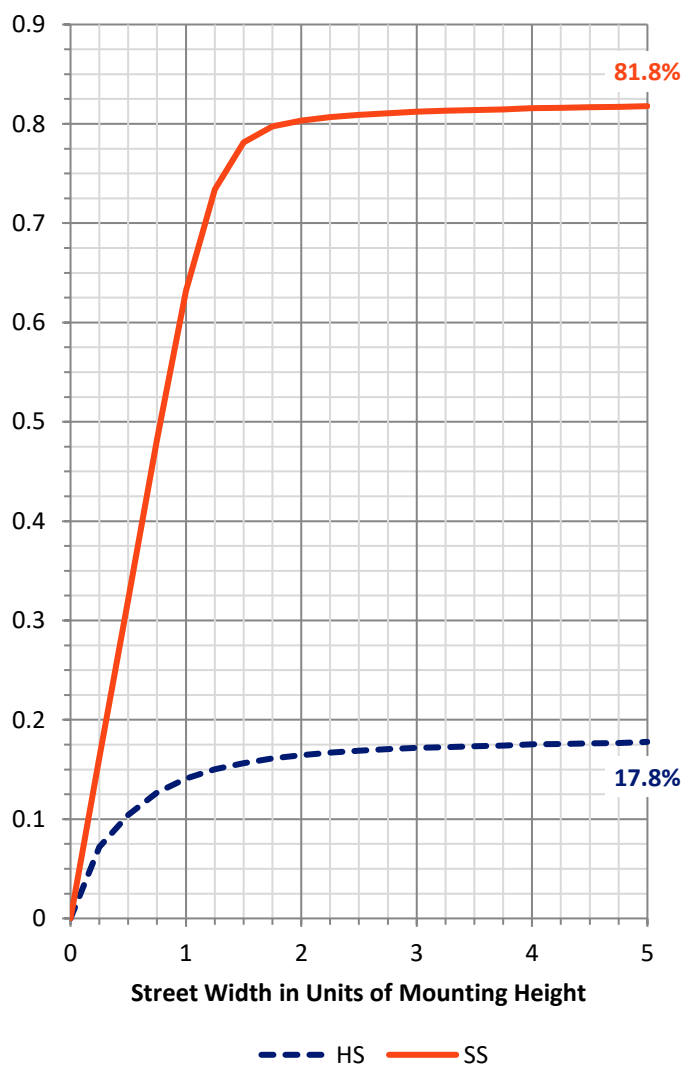
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1278.7	0.0	1278.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	5788.3	0.0	5788.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	7067.0	0.0	7067.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.3	2.3
10°-20°	414.7	5.9
20°-30°	661.8	9.4
30°-40°	1047.8	14.8
40°-50°	1603.8	22.7
50°-60°	1717.8	24.3
60°-70°	1080.7	15.3
70°-80°	319.6	4.5
80°-90°	56.5	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°	7067.0	100.0
0°-180°	7067.0	100.0

Coefficient of Utilization



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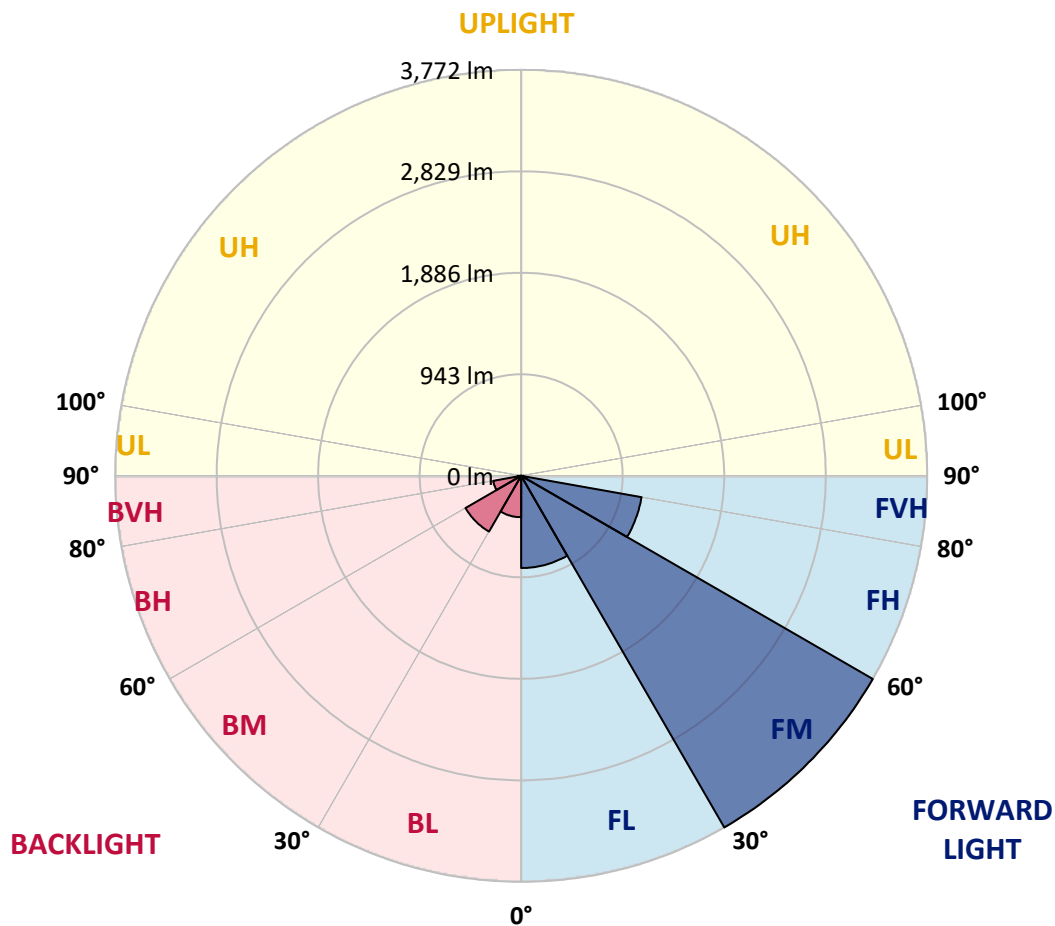
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	856.5	12.1			
FM	(30°-60°)	3771.7	53.4			
FH	(60°-80°)	1136.2	16.1			G1/1800
FVH	(80°-90°)	23.9	0.3			G1/100
BL	(0°-30°)	384.3	5.4	B1/500		
BM	(30°-60°)	597.7	8.5	B1/1000		
BH	(60°-80°)	264.1	3.7	B1/500		G1/500
BVH	(80°-90°)	32.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1770.8	1770.8	1770.8	1770.8	1770.8	1770.8	1770.8	1770.8	1770.8	1770.8	1770.8
2.5°	2031.6	2030.1	2038.2	2010.8	1992.2	1966.9	1933.7	1891.3	1845.7	1797.4	1776.6
5°	2214.6	2201.9	2210.3	2189.8	2169.3	2131.3	2082.0	2013.0	1928.6	1832.5	1781.4
7.5°	2185.8	2177.0	2198.6	2216.8	2232.2	2227.4	2191.3	2118.9	2010.1	1870.5	1796.3
10°	1953.1	1943.2	1973.5	2036.7	2129.5	2210.3	2254.1	2209.2	2093.3	1912.1	1810.9
12.5°	1747.7	1743.0	1763.1	1814.2	1917.3	2072.2	2246.1	2288.1	2179.9	1961.5	1830.7
15°	1660.1	1654.2	1667.0	1692.9	1758.7	1903.0	2173.0	2342.1	2265.1	2018.5	1862.1
17.5°	1640.7	1634.1	1639.6	1653.1	1695.5	1805.5	2062.7	2368.8	2353.8	2082.0	1888.4
20°	1676.5	1671.0	1671.8	1671.0	1700.6	1787.9	1985.9	2358.6	2431.3	2140.5	1914.0
22.5°	1763.1	1754.0	1754.3	1735.0	1751.0	1818.6	1965.8	2331.2	2500.3	2191.6	1933.3
25°	1904.1	1887.7	1891.0	1841.6	1837.3	1887.3	1997.3	2310.0	2569.0	2232.5	1937.0
27.5°	2097.0	2078.4	2068.5	1995.1	1960.0	1984.8	2061.2	2317.3	2634.0	2268.0	1927.9
30°	2338.1	2315.5	2295.4	2191.3	2127.7	2118.6	2160.6	2365.5	2710.8	2305.2	1912.1
32.5°	2633.7	2607.4	2570.8	2432.7	2343.2	2295.4	2289.2	2451.4	2800.6	2352.7	1904.1
35°	2985.5	2951.1	2899.3	2720.6	2607.4	2509.5	2458.7	2575.2	2923.7	2424.3	1913.2
37.5°	3347.9	3309.2	3261.7	3049.1	2909.9	2765.6	2665.5	2743.3	3087.8	2521.5	1937.4
40°	3682.2	3638.7	3594.5	3405.3	3255.8	3081.9	2918.6	2955.9	3288.3	2637.7	1978.3
42.5°	3879.5	3847.3	3830.5	3728.2	3612.8	3436.3	3233.5	3208.0	3513.8	2771.4	2025.0
45°	3870.7	3857.5	3909.4	3951.8	3924.4	3826.5	3602.5	3486.7	3739.9	2887.2	2068.1
47.5°	3663.9	3672.7	3788.5	4026.7	4131.5	4182.7	4022.7	3760.4	3936.4	2973.8	2087.5
50°	3101.3	3108.6	3376.8	3890.4	4184.9	4473.1	4439.5	4027.4	4088.8	3026.8	2083.1
52.5°	2656.0	2660.7	2775.8	3486.4	4008.8	4619.2	4815.1	4279.1	4200.2	3041.4	2058.6
55°	2000.6	2017.0	2146.0	2735.2	3550.7	4503.4	5043.8	4538.5	4270.7	3042.8	2033.1
57.5°	1168.7	1186.6	1345.9	1856.6	2759.7	4099.7	5078.5	4768.7	4318.6	3031.2	2017.7
60°	572.5	580.1	649.6	975.8	1701.7	3322.0	4799.4	4880.1	4345.3	3024.9	2017.0
62.5°	385.8	384.7	387.6	481.5	838.4	2134.3	4217.7	4685.0	4331.0	3001.2	2009.7
65°	331.7	327.7	316.7	337.9	434.4	976.2	3258.8	4102.7	4222.5	2941.6	1959.6
67.5°	286.8	287.2	287.5	280.9	310.2	450.5	1991.4	3231.7	3833.1	2659.6	1766.7
70°	237.5	240.8	242.2	242.2	252.8	295.6	850.1	2215.0	3023.5	2085.3	1423.0
72.5°	216.3	209.3	210.1	206.4	206.4	225.0	342.3	1255.6	1904.8	1173.1	868.4
75°	176.5	180.8	181.6	179.0	170.6	171.7	203.1	526.8	815.1	486.6	429.3
77.5°	152.3	152.3	153.8	152.0	145.4	128.6	135.5	204.2	277.3	199.5	214.4
80°	122.4	122.0	128.2	131.9	121.7	95.0	86.6	112.9	123.1	87.7	111.4
82.5°	59.5	63.2	88.0	100.5	92.4	68.7	53.0	70.1	65.8	38.7	50.1
85°	34.7	32.9	39.5	55.9	53.0	38.0	25.6	36.5	34.3	19.7	20.1
87.5°	11.0	10.2	8.0	19.0	15.3	10.6	6.9	10.6	9.5	4.4	4.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1770.8	1770.8	1770.8	1770.8	1770.8	1770.8	1770.8	1770.8	1770.8	1770.8
2.5°	1750.7	1707.6	1664.8	1625.7	1602.0	1586.6	1571.3	1554.1	1547.5	1537.7
5°	1733.1	1649.8	1575.7	1511.7	1453.7	1408.0	1362.0	1324.7	1307.9	1319.2
7.5°	1722.9	1602.3	1488.0	1370.7	1257.8	1167.6	1089.1	1033.9	1009.0	1015.3
10°	1713.8	1548.6	1374.4	1189.2	1026.9	915.2	834.8	792.8	777.1	780.3
12.5°	1705.4	1488.4	1237.4	993.7	821.3	747.5	724.5	724.8	727.7	729.9
15°	1703.9	1415.7	1084.3	822.7	710.2	705.5	730.3	746.0	754.4	757.0
17.5°	1701.7	1328.7	928.3	706.2	683.2	715.3	738.3	748.6	755.1	755.5
20°	1692.9	1218.4	784.4	650.7	677.3	705.1	719.3	727.4	732.9	734.7
22.5°	1665.9	1095.6	672.2	625.8	653.9	676.2	693.0	702.2	705.5	707.6
25°	1617.3	958.3	594.8	602.1	621.4	649.6	663.1	664.9	663.8	667.1
27.5°	1553.8	811.0	546.5	569.9	594.8	618.9	626.2	625.1	622.9	626.5
30°	1477.0	678.8	515.8	533.7	567.7	589.6	596.2	593.7	589.3	593.3
32.5°	1395.9	570.6	490.6	508.5	545.4	567.0	573.6	571.0	567.7	571.0
35°	1320.3	495.0	467.3	491.7	527.9	549.1	557.5	557.9	557.9	561.9
37.5°	1250.9	450.8	447.9	481.1	515.8	534.8	546.9	547.6	531.9	533.0
40°	1186.6	432.2	439.1	474.2	504.2	522.4	523.2	482.2	453.4	452.6
42.5°	1134.0	428.5	441.7	473.5	495.8	496.5	445.0	413.2	405.2	405.5
45°	1084.7	427.4	447.5	473.5	483.3	428.9	394.2	385.8	386.5	389.4
47.5°	1029.5	423.1	448.6	466.9	447.5	381.4	371.2	367.5	366.1	366.8
50°	969.2	407.3	434.7	453.7	386.2	360.9	348.2	347.1	348.9	350.0
52.5°	905.7	381.8	411.0	430.0	358.0	343.0	328.8	331.4	339.4	342.0
55°	864.0	351.8	379.6	382.5	338.3	326.2	314.2	320.0	335.0	339.8
57.5°	853.0	320.0	343.8	340.5	313.1	311.6	304.3	309.4	328.4	335.4
60°	849.8	291.5	308.7	306.1	288.6	295.6	293.7	296.3	302.9	305.1
62.5°	824.2	268.9	277.3	273.6	266.7	278.7	283.1	277.7	282.8	285.3
65°	759.2	250.6	246.6	244.0	247.0	257.9	266.7	255.7	260.5	267.8
67.5°	651.8	225.8	214.8	217.7	226.9	232.7	244.0	231.6	235.6	248.1
70°	527.2	194.4	184.5	192.9	201.7	213.7	215.5	207.1	216.6	230.5
72.5°	373.0	162.6	155.6	172.8	175.7	191.4	187.4	183.4	196.5	201.3
75°	258.7	131.2	127.1	140.3	150.9	164.4	161.5	166.2	194.0	196.2
77.5°	163.7	101.9	99.4	107.8	122.4	137.4	142.1	196.2	331.4	344.5
80°	95.0	76.0	73.1	79.6	92.4	106.3	137.0	240.8	218.5	215.9
82.5°	53.0	52.2	48.6	50.4	61.7	76.7	193.6	169.5	137.7	142.1
85°	24.8	30.7	26.3	25.2	34.7	89.9	129.3	96.8	64.3	62.8
87.5°	6.6	5.8	5.8	6.6	14.6	77.5	51.5	41.3	24.5	23.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)