

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: P945573

Luminaire Tested: **GALN-SB1C-727-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
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-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6791 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

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

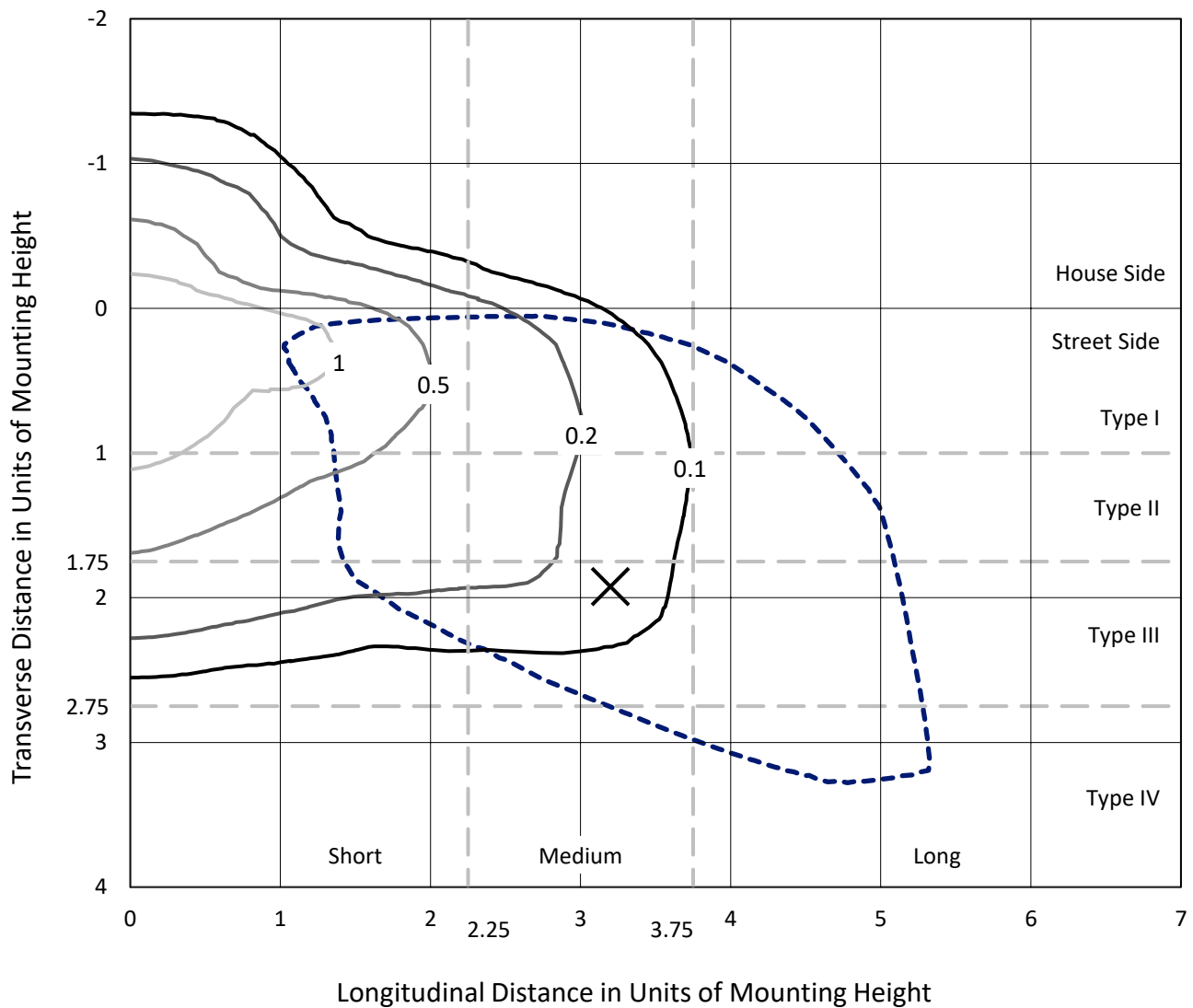


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

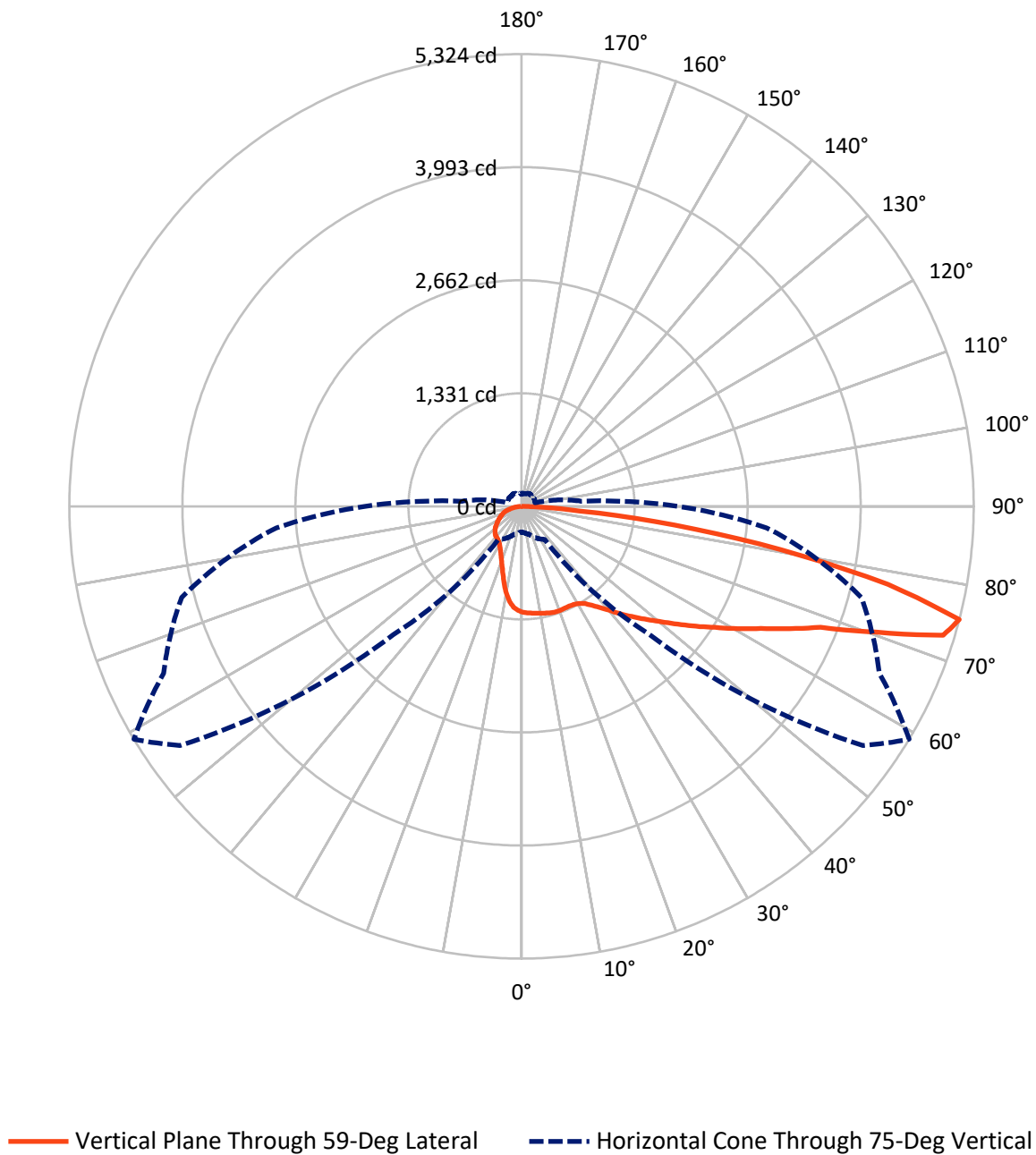


Based on 25 foot mounting height. Maximum calculated value = 2 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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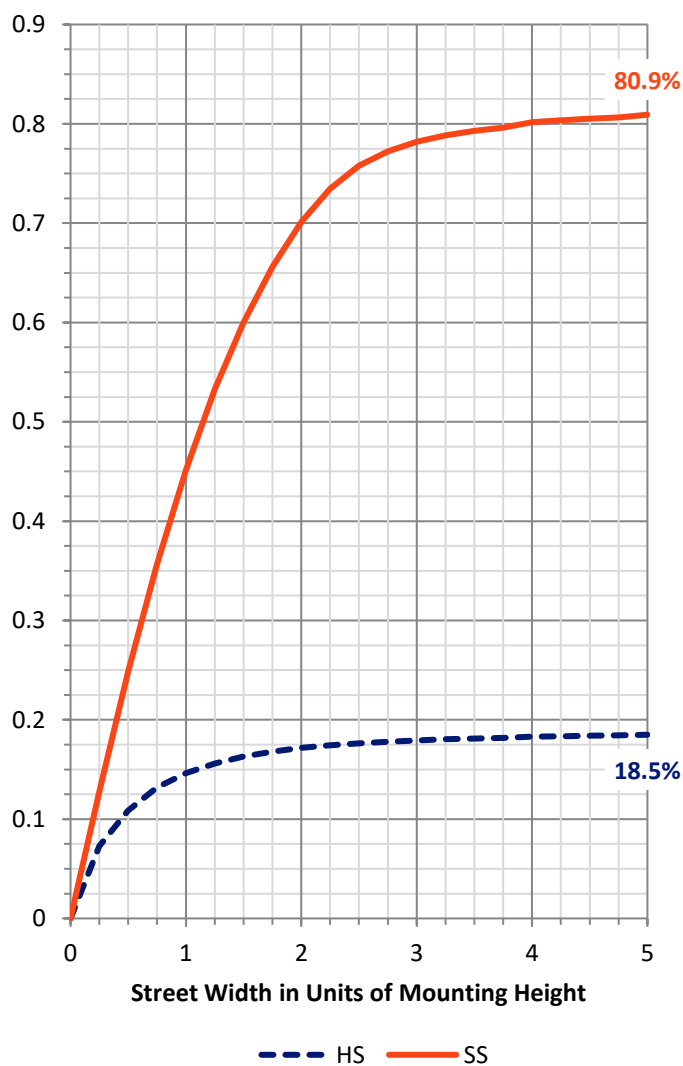
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1273.7	0.0	1273.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	5517.3	0.0	5517.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	6791.0	0.0	6791.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.8	1.6
10°-20°	285.7	4.2
20°-30°	433.9	6.4
30°-40°	645.0	9.5
40°-50°	959.3	14.1
50°-60°	1302.1	19.2
60°-70°	1589.6	23.4
70°-80°	1247.5	18.4
80°-90°	216.1	3.2
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°	6791.0	100.0
0°-180°	6791.0	100.0

Coefficient of Utilization



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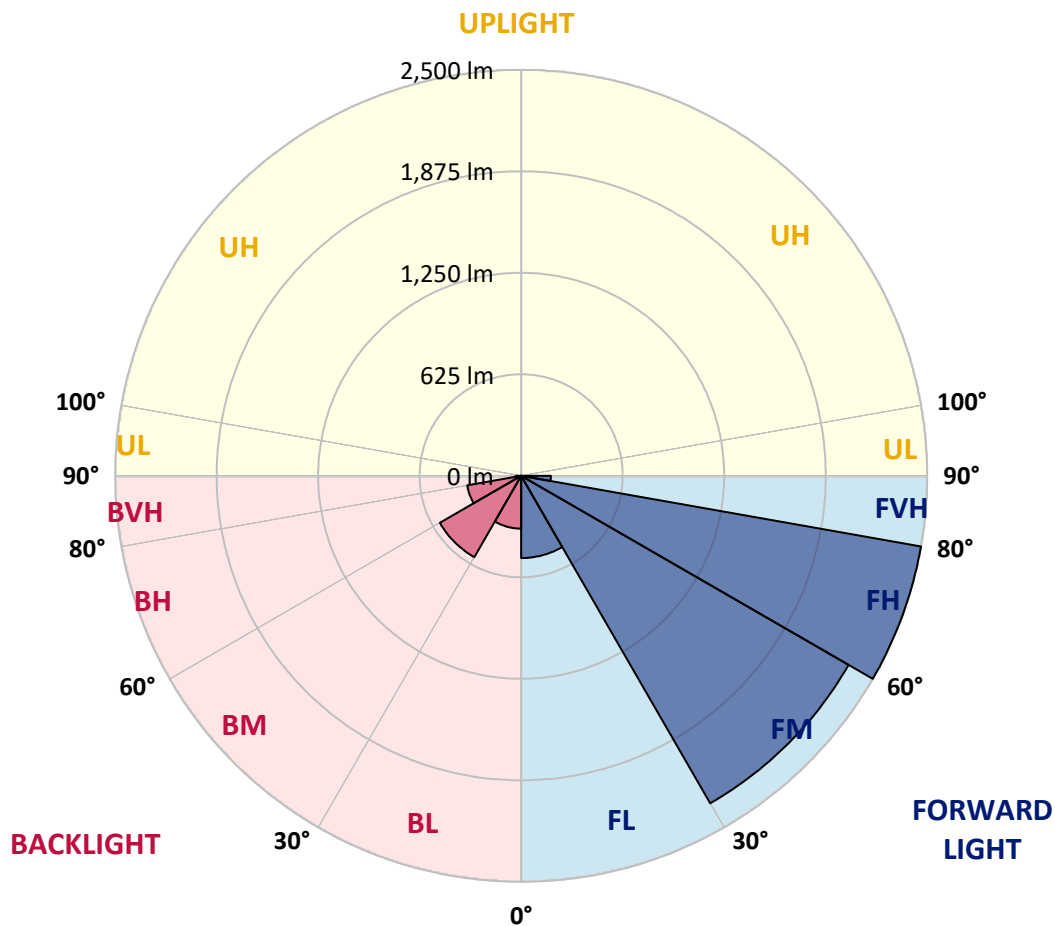
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	506.3	7.5			
FM	(30°-60°)	2328.2	34.3			
FH	(60°-80°)	2499.7	36.8			G2/5000
FVH	(80°-90°)	183.0	2.7			G2/225
BL	(0°-30°)	325.0	4.8	B1/500		
BM	(30°-60°)	578.1	8.5	B1/1000		
BH	(60°-80°)	337.5	5.0	B1/500		G1/500
BVH	(80°-90°)	33.1	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-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5
2.5°	1257.1	1252.7	1257.1	1255.2	1254.5	1253.0	1253.4	1256.0	1254.5	1256.3	1250.1
5°	1248.7	1246.1	1250.5	1249.4	1254.1	1254.9	1259.6	1262.5	1264.4	1264.7	1260.0
7.5°	1234.8	1232.2	1238.4	1243.6	1253.8	1256.7	1266.6	1271.3	1273.9	1278.3	1271.3
10°	1184.0	1182.9	1198.3	1217.6	1241.7	1256.7	1271.7	1279.7	1283.7	1295.4	1287.4
12.5°	1094.1	1095.6	1115.7	1153.0	1201.2	1249.4	1277.5	1289.2	1295.4	1310.0	1306.4
15°	1008.3	1007.9	1029.8	1069.7	1137.2	1217.2	1280.4	1300.5	1311.1	1332.7	1329.8
17.5°	958.6	957.1	972.5	1002.8	1065.6	1167.9	1273.1	1306.8	1329.4	1356.4	1353.9
20°	949.5	946.5	954.6	969.6	1014.1	1113.9	1254.1	1306.8	1344.0	1379.1	1377.6
22.5°	982.7	978.0	974.7	972.8	992.6	1069.3	1232.6	1302.4	1365.6	1411.6	1409.0
25°	1049.6	1042.3	1025.5	1009.0	1003.2	1049.2	1213.6	1301.3	1397.7	1455.4	1445.9
27.5°	1157.7	1148.6	1114.6	1075.1	1039.7	1059.4	1205.2	1307.8	1433.2	1501.8	1482.8
30°	1291.8	1281.9	1239.2	1178.5	1115.0	1097.4	1215.8	1327.2	1478.5	1563.6	1526.3
32.5°	1412.0	1401.0	1364.5	1302.7	1216.9	1163.2	1249.4	1364.1	1549.7	1649.4	1591.7
35°	1518.6	1505.9	1473.0	1416.0	1341.8	1255.6	1310.0	1429.5	1650.9	1789.0	1680.5
37.5°	1623.1	1608.1	1572.3	1512.1	1460.2	1378.7	1393.7	1513.5	1785.3	1958.5	1798.1
40°	1740.0	1718.5	1675.0	1615.4	1565.0	1523.0	1503.7	1616.5	1922.0	2147.7	1945.0
42.5°	1853.3	1832.8	1780.9	1730.2	1667.0	1654.9	1631.2	1737.1	2071.4	2355.6	2094.0
45°	1975.3	1950.8	1888.0	1823.7	1783.9	1742.6	1754.6	1857.7	2217.9	2567.5	2250.4
47.5°	2089.6	2062.2	1988.1	1916.5	1894.6	1816.4	1867.9	1990.3	2370.2	2782.3	2405.3
50°	2151.4	2124.3	2062.6	1997.9	1980.8	1907.3	1990.6	2136.0	2529.8	2996.4	2554.0
52.5°	2202.9	2173.7	2092.9	2057.1	2052.0	2006.3	2141.9	2302.6	2689.5	3185.6	2697.5
55°	2257.7	2225.2	2122.1	2090.0	2113.4	2117.4	2321.2	2491.5	2858.3	3370.1	2833.1
57.5°	2320.9	2279.6	2150.3	2117.8	2173.3	2247.5	2527.3	2687.3	3024.1	3541.0	2953.6
60°	2380.4	2338.8	2204.3	2162.0	2238.0	2398.3	2763.6	2924.4	3211.9	3693.4	3067.6
62.5°	2392.1	2357.8	2247.5	2247.1	2325.6	2574.4	3043.5	3163.7	3375.9	3843.9	3169.9
65°	2189.7	2168.2	2102.8	2243.8	2451.3	2827.9	3355.1	3469.8	3584.5	3975.4	3259.8
67.5°	1666.6	1669.5	1664.8	1936.9	2349.7	3192.2	3806.3	3797.5	3842.1	4123.0	3363.1
70°	762.1	779.2	891.0	1337.1	1882.5	3234.2	4552.3	4438.6	4165.4	4314.1	3452.6
72.5°	411.7	424.9	470.5	647.7	1131.8	2875.4	5109.7	5190.5	4595.4	4442.7	3354.4
75°	302.1	309.4	341.2	411.7	475.3	2137.1	4909.9	5324.2	4649.1	4142.7	2896.6
77.5°	226.1	229.4	255.4	326.2	243.3	1126.6	3923.2	4409.4	3979.8	3403.7	2139.7
80°	164.0	167.7	187.0	244.8	170.6	412.1	2693.9	3095.0	2725.7	2169.6	1066.4
82.5°	113.2	114.7	123.1	166.6	119.1	160.0	1528.5	1814.9	1521.6	761.3	287.9
85°	68.3	70.1	73.8	97.2	67.6	76.0	659.8	682.4	454.8	181.9	89.5
87.5°	28.1	30.0	32.9	40.9	26.7	21.2	108.9	136.6	85.1	53.3	27.8
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°	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5
2.5°	1248.3	1245.7	1238.8	1229.3	1220.5	1209.6	1204.8	1200.8	1197.2	1190.2	1186.9
5°	1256.0	1249.0	1230.4	1206.3	1178.9	1148.9	1119.7	1099.6	1082.4	1069.7	1059.1
7.5°	1267.7	1254.5	1220.5	1171.2	1108.4	1044.1	986.0	944.7	913.7	902.3	882.6
10°	1279.7	1264.0	1204.8	1117.9	1009.4	910.4	833.3	790.9	766.1	758.0	745.6
12.5°	1294.0	1270.9	1180.3	1043.7	898.7	790.2	723.0	698.1	685.3	681.0	682.1
15°	1314.8	1276.8	1143.5	950.9	793.1	702.5	659.0	641.9	635.3	634.9	636.4
17.5°	1330.5	1277.9	1086.1	851.6	712.0	649.5	613.7	607.2	611.5	618.1	620.7
20°	1348.0	1268.0	1010.8	761.0	655.0	603.1	588.2	592.5	603.1	612.6	615.9
22.5°	1360.5	1250.1	919.9	690.5	605.7	576.5	575.7	584.9	590.7	595.5	598.0
25°	1371.4	1219.8	823.4	631.3	565.2	560.4	568.4	565.5	561.5	565.5	568.1
27.5°	1379.4	1171.9	737.2	579.4	536.7	549.4	544.7	538.1	537.8	539.9	543.6
30°	1376.9	1108.0	666.3	530.1	516.6	529.0	517.7	516.6	515.5	516.6	520.6
32.5°	1376.9	1035.3	611.9	496.1	503.8	499.0	497.9	495.4	491.0	490.6	495.4
35°	1384.6	962.6	565.2	477.8	493.2	481.9	482.6	476.4	467.2	462.9	467.2
37.5°	1400.3	904.2	518.8	469.1	474.6	474.2	471.3	460.7	444.6	430.7	435.5
40°	1438.3	887.0	487.0	465.1	465.8	470.2	462.5	442.0	405.5	382.9	385.8
42.5°	1497.8	915.9	480.0	455.2	459.9	464.3	449.3	401.9	375.9	362.4	362.4
45°	1573.4	966.3	495.0	440.9	446.1	453.7	409.2	386.5	374.8	375.2	377.0
47.5°	1669.1	1019.2	522.8	428.5	426.0	430.3	382.5	368.6	352.5	356.6	366.8
50°	1779.8	1072.9	549.1	411.7	403.7	389.4	365.3	352.2	331.7	322.2	324.8
52.5°	1899.7	1124.8	559.7	391.3	379.6	363.1	353.6	337.6	312.7	297.0	296.6
55°	2013.3	1171.9	548.0	366.8	355.5	342.7	341.2	331.3	304.7	282.8	282.8
57.5°	2120.7	1211.4	518.8	341.9	331.0	323.3	333.2	328.4	294.8	266.7	265.2
60°	2211.6	1238.4	476.4	316.7	309.1	305.0	320.0	318.6	280.9	249.5	248.4
62.5°	2284.0	1249.0	429.6	292.6	290.8	283.5	301.8	301.8	263.4	232.7	231.6
65°	2340.6	1238.8	382.1	268.9	272.5	261.6	279.5	277.3	244.8	217.7	216.3
67.5°	2390.7	1205.2	329.5	245.5	253.9	240.0	256.1	251.0	224.3	202.8	201.3
70°	2412.9	1127.0	269.6	222.1	232.3	218.8	232.7	223.2	201.3	186.7	183.8
72.5°	2233.9	936.7	212.3	197.6	206.4	195.4	207.5	196.5	176.4	169.9	164.4
75°	1848.2	702.9	163.3	171.0	177.5	169.1	177.2	169.1	150.9	155.6	142.1
77.5°	1342.2	474.6	124.9	142.8	145.8	141.4	148.3	139.2	122.7	121.7	116.2
80°	667.4	278.0	97.9	112.9	111.8	108.9	116.9	112.5	98.6	104.5	103.4
82.5°	193.3	119.1	71.2	79.3	77.1	77.8	83.7	85.9	128.6	127.5	130.4
85°	60.6	46.8	42.7	44.2	42.0	43.1	49.3	97.9	90.6	53.0	57.4
87.5°	15.7	16.1	10.6	11.3	11.7	13.9	15.7	59.5	28.5	18.6	19.7
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)