

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: P945190

Luminaire Tested: **GALN-SB1B-722-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945190
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-SB1B-722-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 450mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4732 lumens
Efficiency: N/A
Efficacy: 118.9 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): 39.8
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

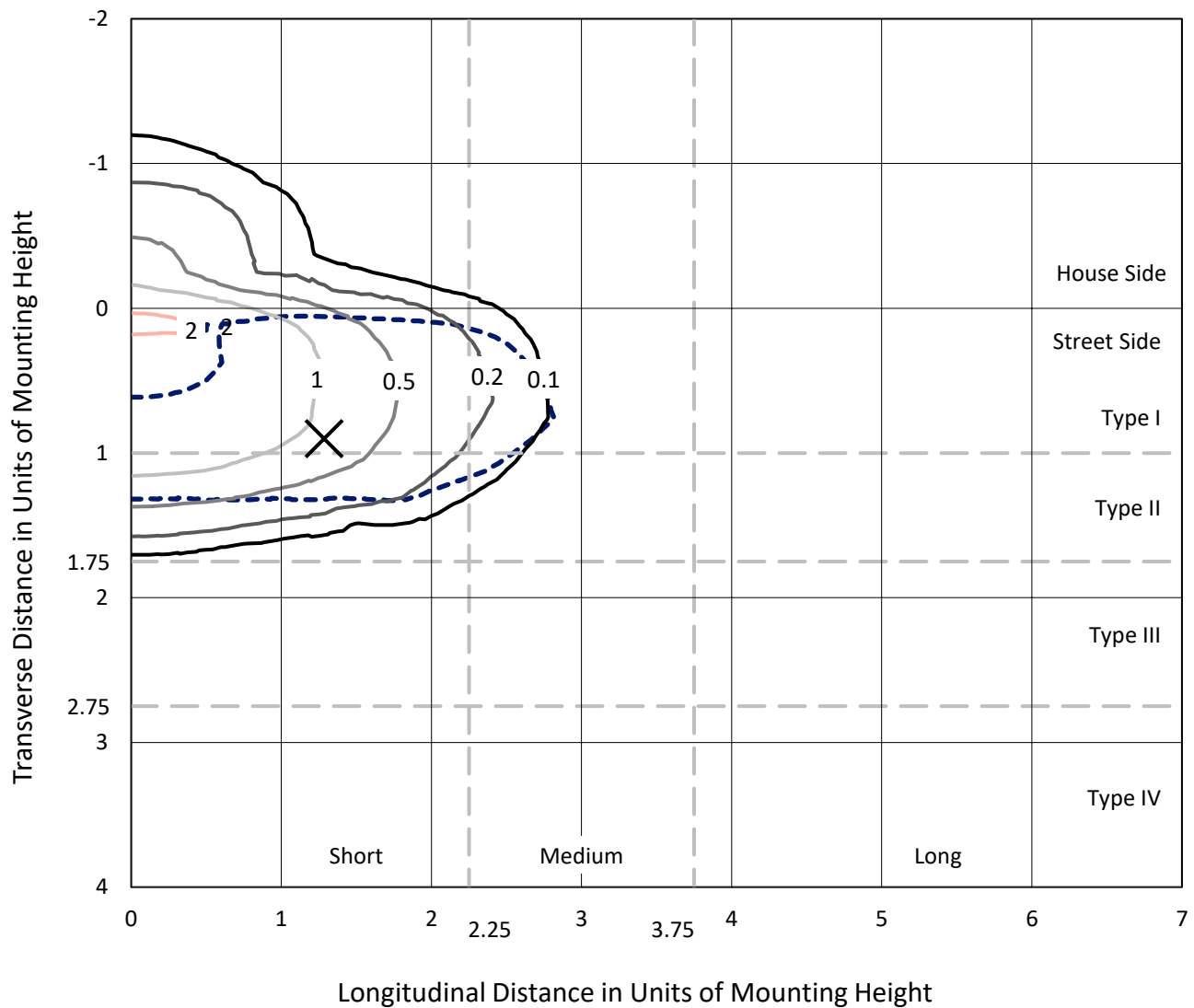


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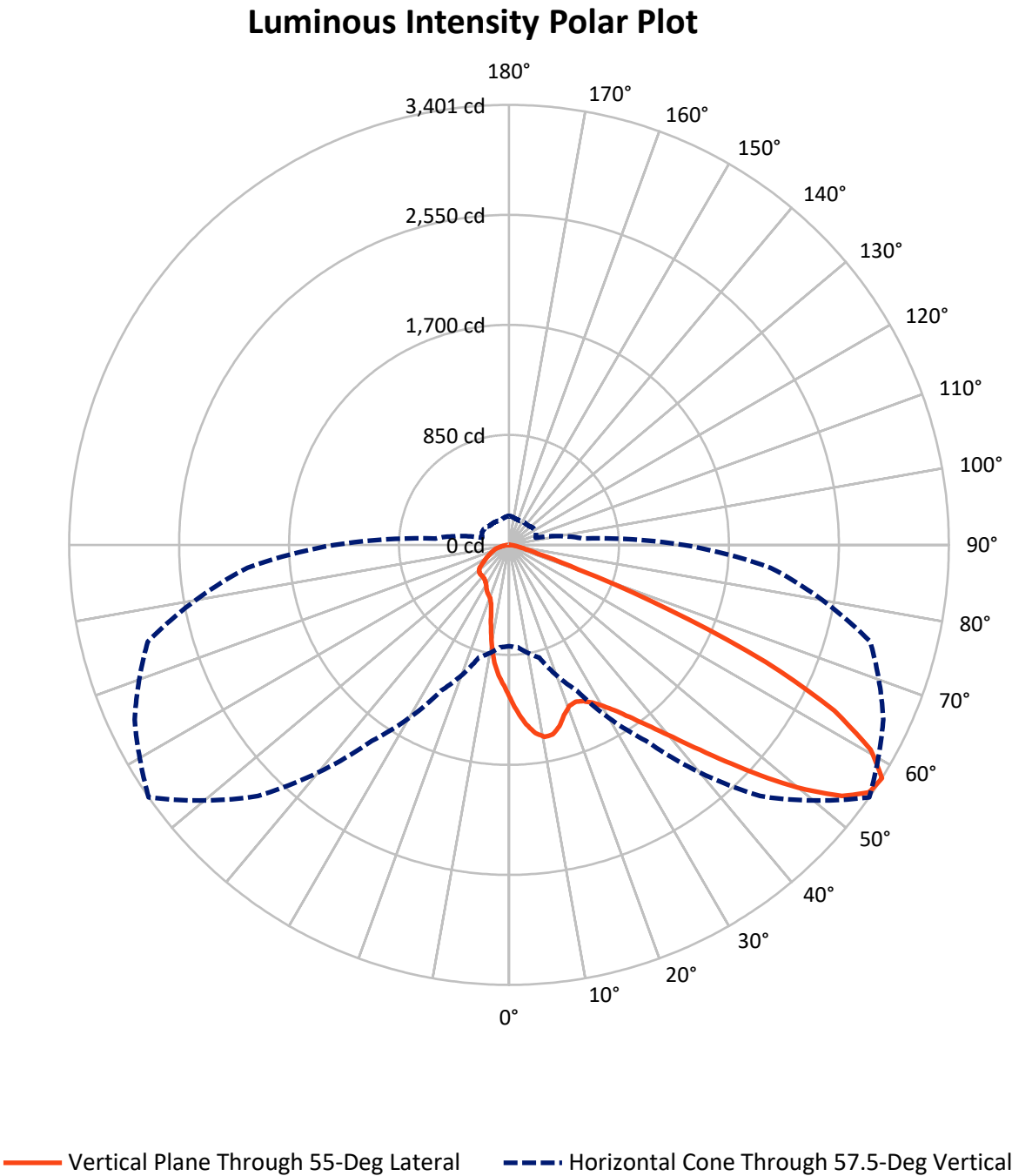
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
Type II - Short - N/A

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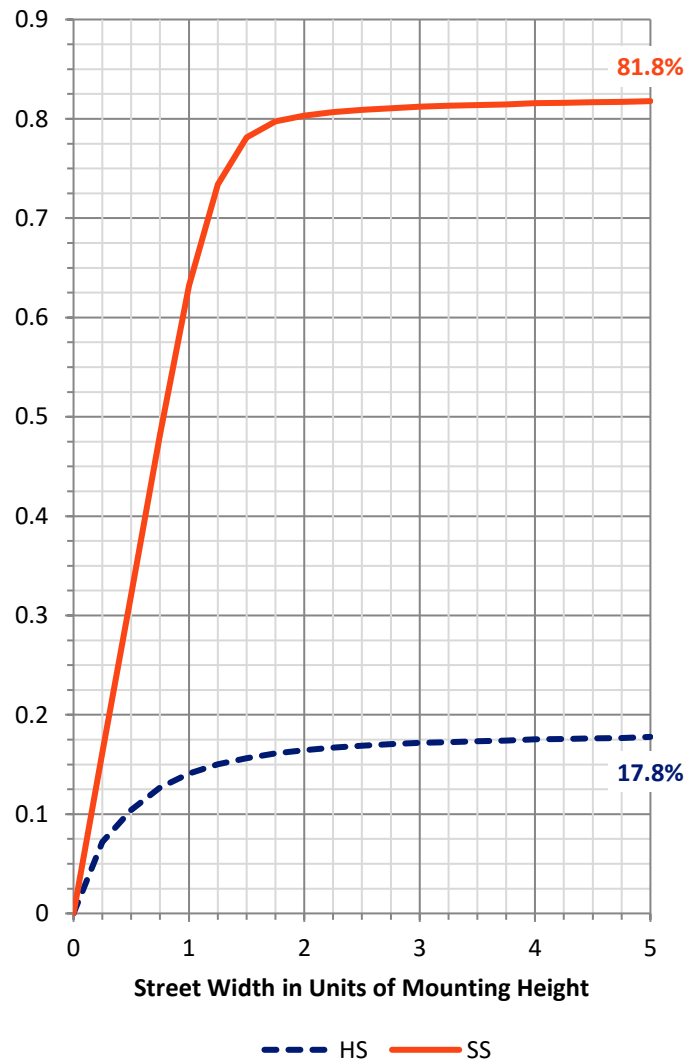
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	856.2	0.0	856.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	3875.8	0.0	3875.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	4732.0	0.0	4732.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.0	2.3
10°-20°	277.7	5.9
20°-30°	443.1	9.4
30°-40°	701.6	14.8
40°-50°	1073.9	22.7
50°-60°	1150.2	24.3
60°-70°	723.6	15.3
70°-80°	214.0	4.5
80°-90°	37.8	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°	4732.0	100.0
0°-180°	4732.0	100.0

Coefficient of Utilization



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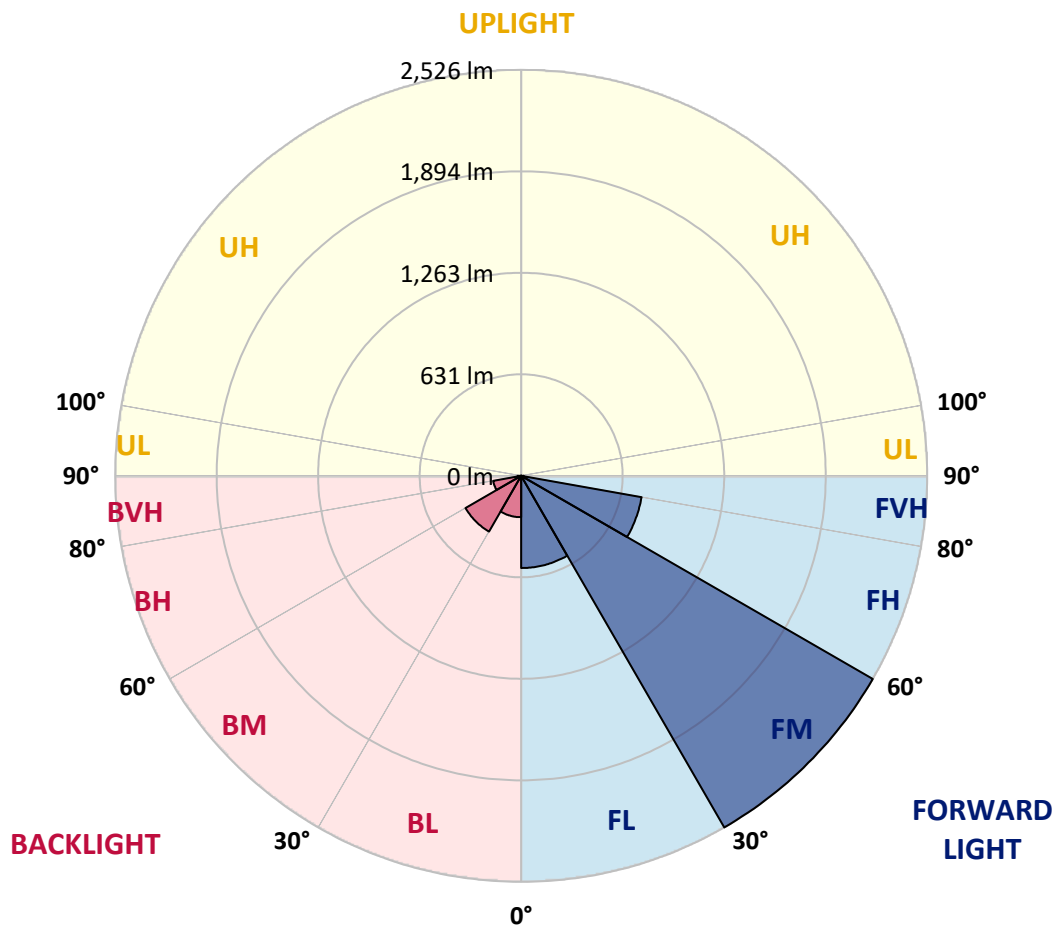
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	573.5	12.1			
FM	(30°-60°)	2525.5	53.4			
FH	(60°-80°)	760.8	16.1			G1/1800
FVH	(80°-90°)	16.0	0.3			G1/100
BL	(0°-30°)	257.4	5.4	B1/500		
BM	(30°-60°)	400.2	8.5	B1/1000		
BH	(60°-80°)	176.8	3.7	B1/500		G1/500
BVH	(80°-90°)	21.8	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°	1185.7	1185.7	1185.7	1185.7	1185.7	1185.7	1185.7	1185.7	1185.7	1185.7	1185.7
2.5°	1360.3	1359.4	1364.7	1346.4	1333.9	1317.0	1294.8	1266.4	1235.8	1203.5	1189.6
5°	1482.9	1474.3	1480.0	1466.3	1452.6	1427.1	1394.1	1347.9	1291.4	1227.0	1192.8
7.5°	1463.6	1457.7	1472.1	1484.4	1494.6	1491.5	1467.2	1418.8	1345.9	1252.5	1202.8
10°	1307.8	1301.1	1321.5	1363.8	1425.9	1480.0	1509.3	1479.2	1401.7	1280.4	1212.6
12.5°	1170.3	1167.1	1180.5	1214.8	1283.8	1387.5	1503.9	1532.1	1459.7	1313.4	1225.8
15°	1111.6	1107.7	1116.2	1133.6	1177.6	1274.2	1455.0	1568.3	1516.7	1351.5	1246.8
17.5°	1098.6	1094.2	1097.9	1106.9	1135.3	1208.9	1381.1	1586.1	1576.1	1394.1	1264.5
20°	1122.6	1118.9	1119.4	1118.9	1138.7	1197.2	1329.8	1579.3	1628.0	1433.2	1281.6
22.5°	1180.5	1174.4	1174.7	1161.7	1172.5	1217.7	1316.3	1560.9	1674.2	1467.5	1294.5
25°	1275.0	1264.0	1266.2	1233.1	1230.2	1263.7	1337.4	1546.7	1720.2	1494.9	1297.0
27.5°	1404.1	1391.7	1385.1	1335.9	1312.4	1329.0	1380.2	1551.6	1763.7	1518.6	1290.9
30°	1565.6	1550.4	1537.0	1467.2	1424.7	1418.6	1446.7	1583.9	1815.1	1543.6	1280.4
32.5°	1763.5	1745.9	1721.4	1628.9	1569.0	1537.0	1532.8	1641.4	1875.3	1575.4	1275.0
35°	1999.1	1976.1	1941.3	1821.7	1745.9	1680.3	1646.3	1724.3	1957.7	1623.3	1281.1
37.5°	2241.7	2215.8	2184.0	2041.6	1948.4	1851.8	1784.8	1836.9	2067.5	1688.4	1297.2
40°	2465.6	2436.4	2406.8	2280.1	2180.1	2063.6	1954.3	1979.2	2201.8	1766.2	1324.6
42.5°	2597.6	2576.1	2564.9	2496.4	2419.1	2300.9	2165.2	2148.0	2352.8	1855.7	1355.9
45°	2591.8	2583.0	2617.7	2646.1	2627.7	2562.2	2412.2	2334.7	2504.2	1933.3	1384.8
47.5°	2453.3	2459.2	2536.7	2696.2	2766.4	2800.7	2693.5	2517.9	2635.8	1991.2	1397.8
50°	2076.6	2081.5	2261.0	2605.0	2802.2	2995.2	2972.7	2696.7	2737.8	2026.7	1394.8
52.5°	1778.4	1781.6	1858.6	2334.4	2684.2	3093.0	3224.1	2865.3	2812.4	2036.5	1378.4
55°	1339.6	1350.6	1436.9	1831.5	2377.5	3015.5	3377.3	3038.9	2859.6	2037.5	1361.3
57.5°	782.5	794.5	901.2	1243.2	1847.9	2745.2	3400.5	3193.1	2891.7	2029.6	1351.1
60°	383.3	388.5	434.9	653.4	1139.5	2224.4	3213.6	3267.7	2909.5	2025.5	1350.6
62.5°	258.3	257.6	259.5	322.4	561.4	1429.1	2824.2	3137.0	2900.0	2009.6	1345.7
65°	222.1	219.4	212.1	226.3	290.9	653.6	2182.0	2747.1	2827.3	1969.7	1312.2
67.5°	192.0	192.3	192.5	188.1	207.7	301.6	1333.4	2163.9	2566.6	1780.9	1183.0
70°	159.0	161.2	162.2	162.2	169.3	197.9	569.2	1483.1	2024.5	1396.3	952.8
72.5°	144.8	140.2	140.7	138.2	138.2	150.7	229.2	840.8	1275.5	785.5	581.5
75°	118.2	121.1	121.6	119.9	114.2	115.0	136.0	352.7	545.8	325.8	287.4
77.5°	102.0	102.0	103.0	101.8	97.4	86.1	90.8	136.7	185.7	133.6	143.6
80°	81.9	81.7	85.9	88.3	81.5	63.6	58.0	75.6	82.4	58.7	74.6
82.5°	39.9	42.3	59.0	67.3	61.9	46.0	35.5	47.0	44.0	25.9	33.5
85°	23.2	22.0	26.4	37.4	35.5	25.4	17.1	24.5	23.0	13.2	13.5
87.5°	7.3	6.8	5.4	12.7	10.3	7.1	4.6	7.1	6.4	2.9	2.9
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°	1185.7	1185.7	1185.7	1185.7	1185.7	1185.7	1185.7	1185.7	1185.7	1185.7
2.5°	1172.2	1143.4	1114.7	1088.6	1072.7	1062.4	1052.1	1040.6	1036.2	1029.6
5°	1160.5	1104.7	1055.1	1012.2	973.4	942.8	912.0	887.0	875.7	883.3
7.5°	1153.6	1072.9	996.3	917.8	842.2	781.8	729.2	692.3	675.6	679.8
10°	1147.5	1037.0	920.3	796.2	687.6	612.8	559.0	530.8	520.3	522.5
12.5°	1141.9	996.6	828.5	665.4	549.9	500.5	485.1	485.3	487.3	488.8
15°	1140.9	947.9	726.0	550.9	475.5	472.4	489.0	499.5	505.1	506.9
17.5°	1139.5	889.7	621.6	472.9	457.4	479.0	494.4	501.2	505.6	505.9
20°	1133.6	815.8	525.2	435.7	453.5	472.1	481.7	487.0	490.7	491.9
22.5°	1115.5	733.6	450.1	419.0	437.9	452.8	464.0	470.2	472.4	473.8
25°	1082.9	641.6	398.2	403.1	416.1	434.9	444.0	445.2	444.5	446.7
27.5°	1040.4	543.1	366.0	381.6	398.2	414.4	419.3	418.5	417.1	419.5
30°	989.0	454.5	345.4	357.4	380.1	394.8	399.2	397.5	394.6	397.3
32.5°	934.7	382.1	328.5	340.5	365.2	379.7	384.1	382.3	380.1	382.3
35°	884.1	331.5	312.9	329.3	353.5	367.7	373.3	373.5	373.5	376.2
37.5°	837.6	301.9	299.9	322.2	345.4	358.1	366.2	366.7	356.2	356.9
40°	794.5	289.4	294.0	317.5	337.6	349.8	350.3	322.9	303.6	303.1
42.5°	759.3	286.9	295.7	317.0	332.0	332.4	298.0	276.7	271.3	271.5
45°	726.3	286.2	299.7	317.0	323.6	287.2	263.9	258.3	258.8	260.8
47.5°	689.3	283.3	300.4	312.6	299.7	255.4	248.5	246.1	245.1	245.6
50°	649.0	272.8	291.1	303.8	258.6	241.7	233.1	232.4	233.6	234.3
52.5°	606.4	255.6	275.2	287.9	239.7	229.7	220.2	221.9	227.3	229.0
55°	578.5	235.6	254.2	256.1	226.5	218.4	210.4	214.3	224.3	227.5
57.5°	571.2	214.3	230.2	228.0	209.6	208.7	203.8	207.2	219.9	224.6
60°	569.0	195.2	206.7	205.0	193.3	197.9	196.7	198.4	202.8	204.3
62.5°	551.9	180.0	185.7	183.2	178.6	186.6	189.6	185.9	189.3	191.1
65°	508.3	167.8	165.1	163.4	165.4	172.7	178.6	171.2	174.4	179.3
67.5°	436.4	151.2	143.8	145.8	151.9	155.8	163.4	155.1	157.8	166.1
70°	353.0	130.1	123.5	129.2	135.0	143.1	144.3	138.7	145.1	154.4
72.5°	249.8	108.9	104.2	115.7	117.7	128.2	125.5	122.8	131.6	134.8
75°	173.2	87.8	85.1	93.9	101.0	110.1	108.1	111.3	129.9	131.4
77.5°	109.6	68.2	66.5	72.2	81.9	92.0	95.2	131.4	221.9	230.7
80°	63.6	50.9	48.9	53.3	61.9	71.2	91.7	161.2	146.3	144.6
82.5°	35.5	35.0	32.5	33.8	41.3	51.4	129.6	113.5	92.2	95.2
85°	16.6	20.5	17.6	16.9	23.2	60.2	86.6	64.8	43.1	42.1
87.5°	4.4	3.9	3.9	4.4	9.8	51.9	34.5	27.6	16.4	15.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)