

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: P946656

Luminaire Tested: **GALN-SB2B-727-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946656
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-727-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10425 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

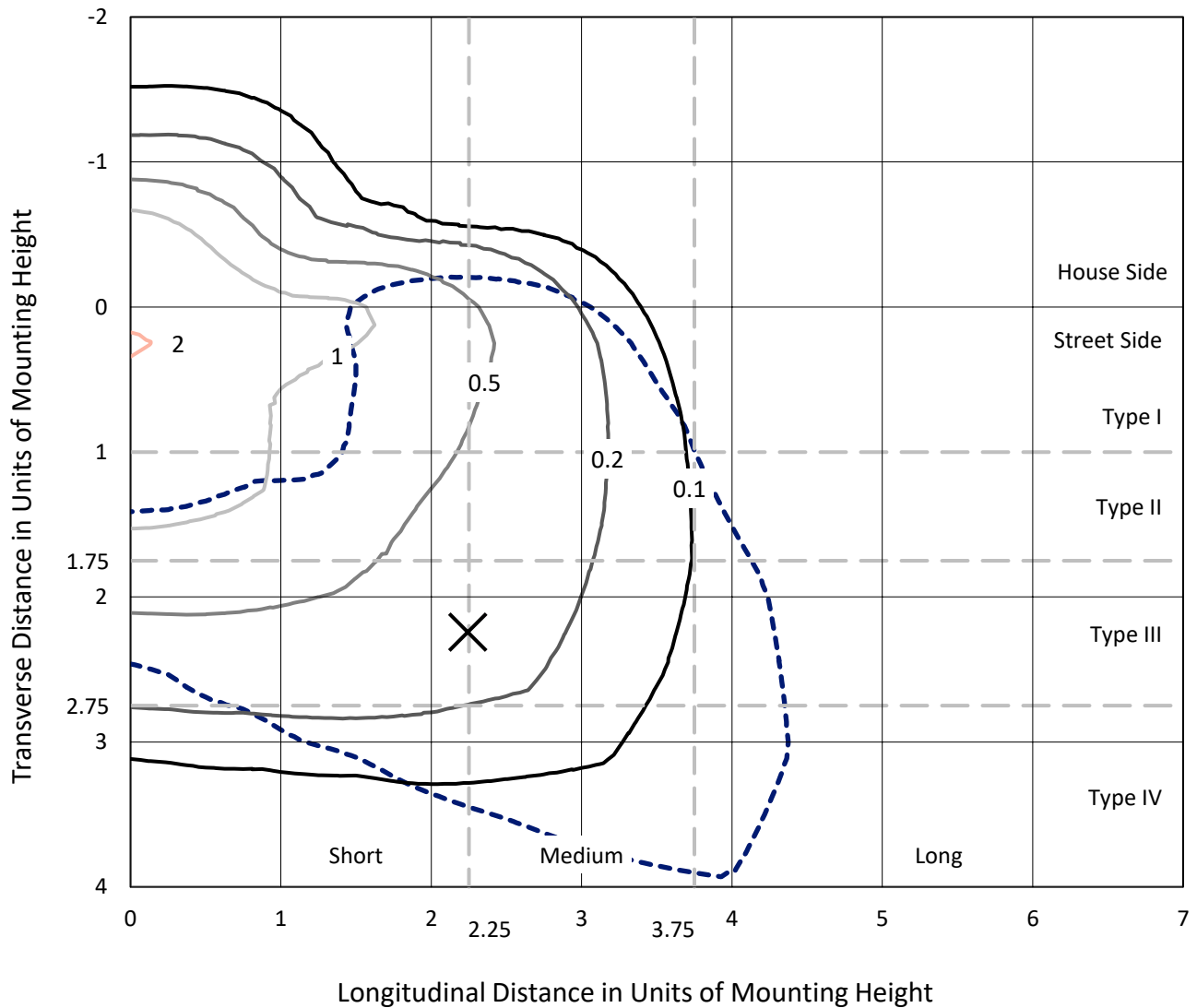
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

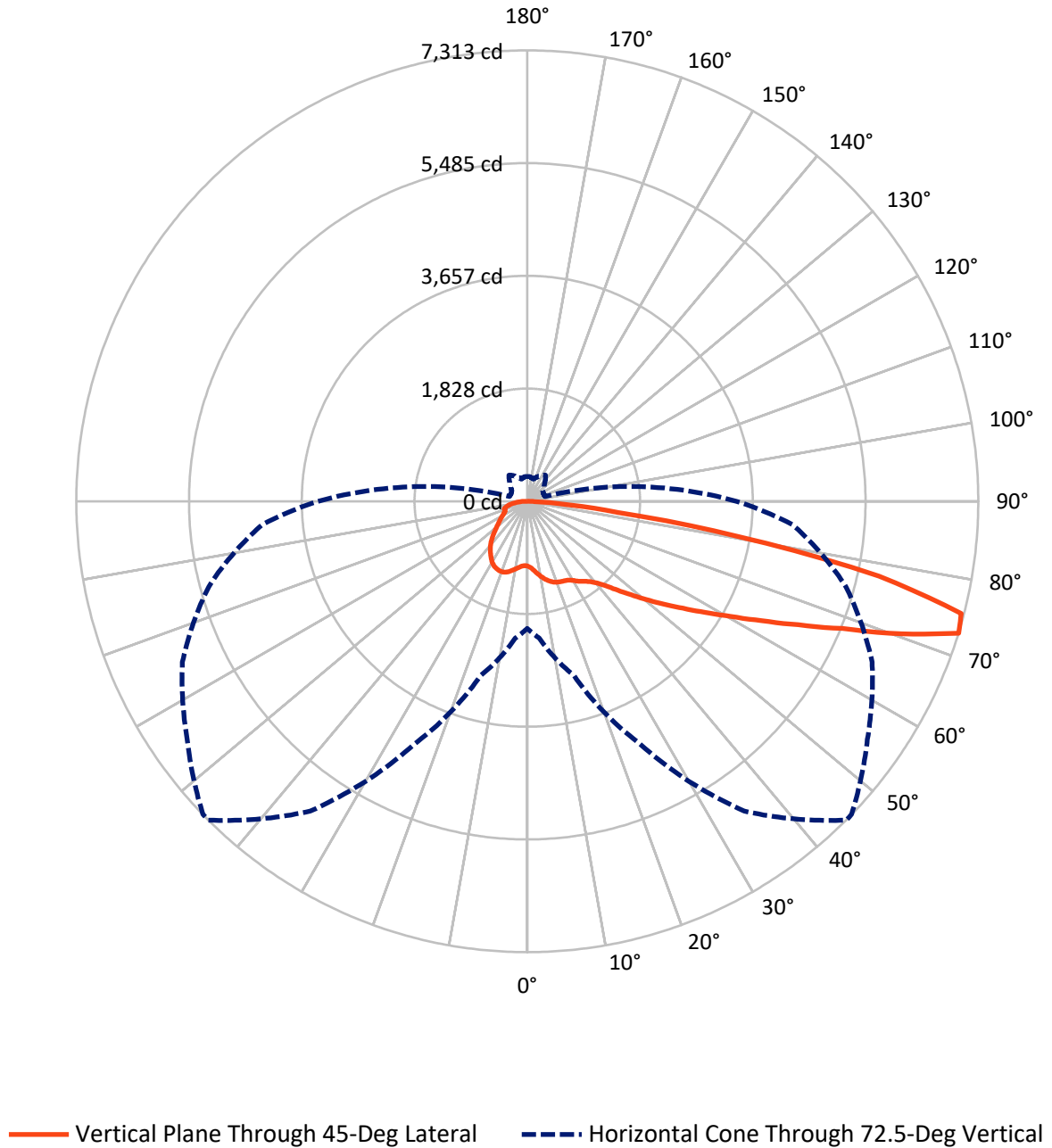
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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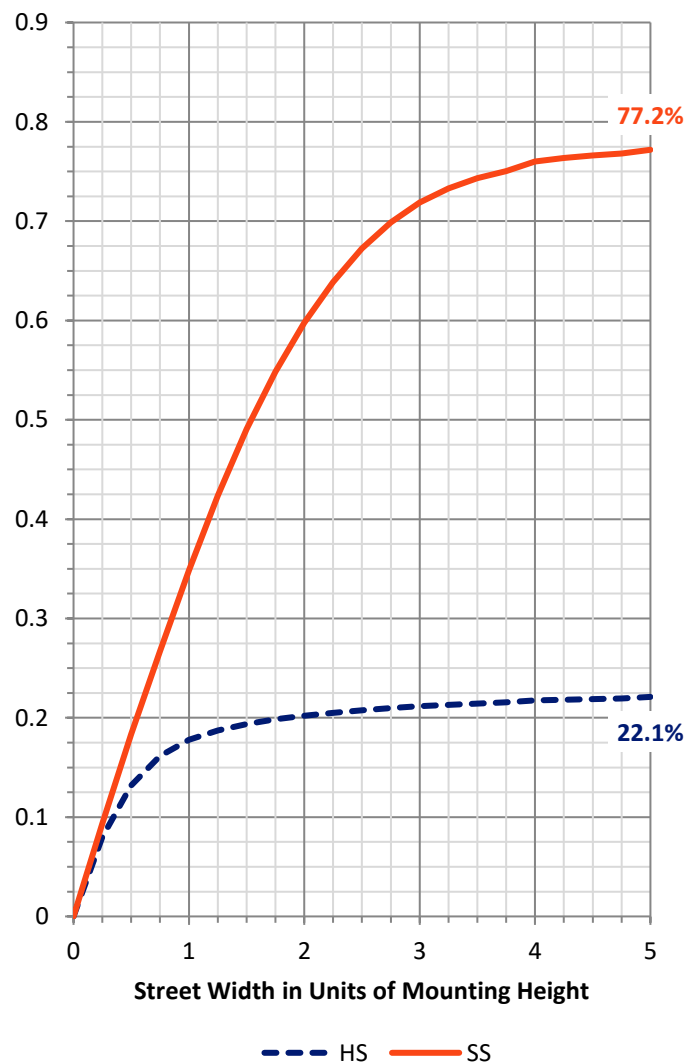
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2356.7	0.0	2356.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	8068.3	0.0	8068.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	10425.0	0.0	10425.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.0	1.0
10°-20°	356.9	3.4
20°-30°	620.8	6.0
30°-40°	890.0	8.5
40°-50°	1253.1	12.0
50°-60°	1919.5	18.4
60°-70°	2780.6	26.7
70°-80°	2220.5	21.3
80°-90°	276.5	2.7
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°	10425.0	100.0
0°-180°	10425.0	100.0

Coefficient of Utilization



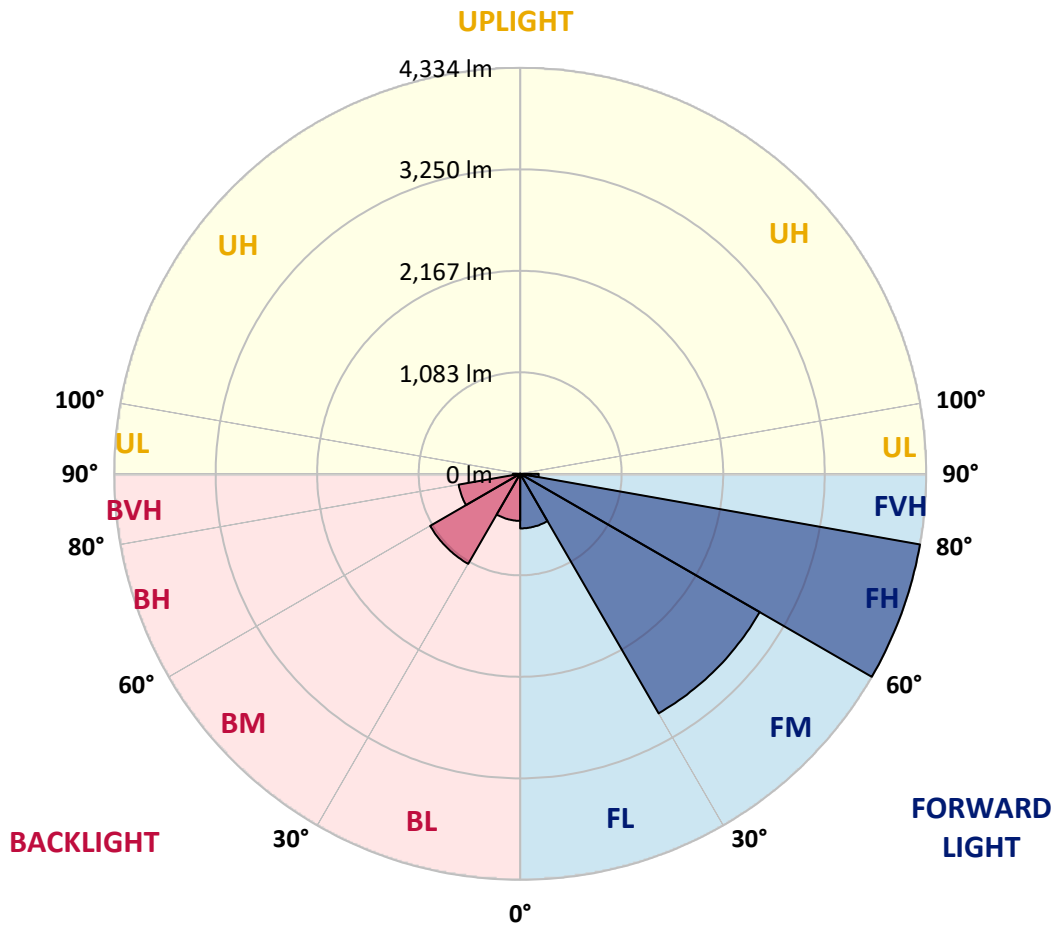
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	583.0	5.6			
FM (30°-60°)	2952.9	28.3			
FH (60°-80°)	4334.0	41.6			G2/5000
FVH (80°-90°)	198.4	1.9			G2/225
BL (0°-30°)	501.8	4.8	B2/1000		
BM (30°-60°)	1109.7	10.6	B2/2500		
BH (60°-80°)	667.1	6.4	B2/1000		G2/1000
BVH (80°-90°)	78.1	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1051.7	1051.7	1051.7	1051.7	1051.7	1051.7	1051.7	1051.7	1051.7	1051.7	1051.7
2.5°	1092.9	1100.0	1093.4	1087.4	1084.6	1077.5	1076.9	1072.5	1069.8	1062.1	1059.9
5°	1169.2	1178.5	1167.6	1155.5	1144.5	1126.9	1124.7	1112.1	1097.8	1081.3	1072.0
7.5°	1255.4	1263.7	1251.0	1232.9	1213.7	1184.6	1184.0	1161.0	1138.5	1110.4	1094.5
10°	1330.7	1341.6	1324.6	1299.9	1275.7	1242.8	1238.9	1212.6	1184.0	1147.8	1123.6
12.5°	1397.1	1404.8	1388.3	1358.1	1330.1	1297.2	1292.2	1263.1	1231.3	1190.1	1159.3
15°	1449.8	1459.7	1437.8	1405.4	1375.7	1343.3	1338.9	1312.5	1280.7	1237.3	1197.8
17.5°	1484.4	1492.7	1470.2	1433.9	1405.4	1378.4	1375.1	1353.2	1325.2	1281.2	1238.9
20°	1497.6	1506.4	1482.8	1446.0	1419.6	1398.8	1397.1	1381.2	1362.0	1321.9	1279.0
22.5°	1510.8	1519.0	1488.3	1449.8	1426.8	1413.6	1413.0	1402.6	1394.9	1362.0	1320.2
25°	1564.1	1566.3	1525.1	1469.6	1436.7	1425.1	1424.6	1424.0	1427.3	1401.5	1364.7
27.5°	1610.2	1609.6	1574.5	1522.3	1471.3	1447.1	1446.5	1452.0	1462.5	1441.0	1410.8
30°	1677.7	1671.7	1630.0	1575.6	1528.9	1491.6	1488.3	1483.3	1491.6	1474.5	1457.0
32.5°	1821.1	1801.9	1734.3	1637.7	1576.7	1548.1	1543.7	1513.0	1516.3	1505.9	1497.1
35°	2026.5	2001.2	1911.1	1755.2	1636.0	1595.4	1593.2	1554.2	1547.6	1538.3	1541.5
37.5°	2270.9	2239.6	2134.7	1925.4	1738.2	1650.3	1647.0	1611.8	1584.9	1575.0	1593.7
40°	2516.3	2476.8	2390.0	2133.0	1888.6	1742.0	1731.6	1678.3	1647.5	1631.1	1670.6
42.5°	2754.7	2721.7	2647.6	2365.9	2074.3	1876.0	1852.9	1761.8	1738.7	1723.3	1794.7
45°	2965.6	2935.9	2881.5	2614.6	2291.7	2058.3	2035.8	1887.0	1879.8	1879.8	1983.1
47.5°	3136.9	3130.3	3072.7	2868.4	2548.2	2265.9	2226.9	2061.1	2080.3	2109.9	2250.5
50°	3326.9	3308.8	3247.3	3118.2	2849.7	2503.7	2471.9	2274.7	2346.6	2427.9	2637.2
52.5°	3501.6	3511.5	3442.8	3378.6	3190.2	2769.0	2712.9	2526.8	2682.2	2816.7	3090.2
55°	3681.2	3681.7	3662.5	3653.7	3547.2	3062.2	3000.7	2829.9	3077.1	3244.0	3618.5
57.5°	3849.8	3850.8	3879.4	3956.8	3961.2	3400.5	3330.8	3202.3	3515.8	3686.1	4163.3
60°	4000.2	4007.9	4085.9	4267.1	4325.3	3788.2	3722.3	3642.2	3969.5	4140.8	4736.1
62.5°	4050.8	4078.8	4252.3	4509.9	4685.1	4263.8	4199.0	4151.3	4446.2	4605.4	5215.0
65°	3965.1	4029.3	4364.9	4710.3	5055.2	4828.9	4764.7	4712.5	4941.5	5091.4	5608.2
67.5°	3754.7	3837.7	4358.3	4920.7	5504.4	5508.8	5449.0	5326.5	5472.6	5530.2	5736.2
70°	3200.6	3324.7	3974.4	4999.2	6020.1	6438.6	6380.9	6065.7	6002.5	5723.6	5375.9
72.5°	2062.2	2229.1	2926.6	4352.8	6134.9	7313.4	7310.1	6732.9	6170.0	5347.9	4311.6
75°	752.4	854.5	1359.8	2732.2	5149.7	7268.9	7290.4	6618.7	5632.4	4130.9	2686.0
77.5°	274.0	299.9	443.7	1050.0	3167.1	5832.3	5876.8	5291.3	4009.0	2073.2	1064.3
80°	143.9	158.2	227.4	407.5	1357.0	3463.7	3533.4	3144.6	1884.2	624.4	319.1
82.5°	79.6	86.2	127.4	221.3	611.2	1481.1	1522.9	1242.2	662.9	264.7	131.8
85°	42.8	45.6	59.9	120.8	298.8	513.5	525.0	371.2	264.2	155.4	63.7
87.5°	12.6	15.4	19.8	38.4	117.0	115.3	118.1	73.6	104.3	78.5	20.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1051.7	1051.7	1051.7	1051.7	1051.7	1051.7	1051.7	1051.7	1051.7	1051.7	1051.7
2.5°	1056.6	1055.0	1048.9	1046.2	1042.9	1042.3	1045.1	1045.6	1046.2	1046.7	1048.9
5°	1066.5	1061.0	1055.5	1052.2	1053.3	1053.9	1059.4	1063.2	1066.0	1068.2	1069.3
7.5°	1085.7	1081.3	1072.0	1071.5	1073.1	1078.0	1085.2	1094.0	1098.9	1102.8	1103.9
10°	1114.3	1106.0	1095.1	1096.7	1100.0	1107.1	1122.0	1129.1	1137.4	1144.5	1142.8
12.5°	1143.4	1136.3	1123.6	1124.7	1130.2	1142.8	1157.1	1165.9	1171.4	1176.9	1179.1
15°	1181.3	1168.7	1154.9	1154.9	1164.8	1178.5	1185.1	1192.3	1195.6	1201.6	1203.8
17.5°	1220.3	1203.8	1185.7	1184.6	1196.7	1203.3	1207.1	1208.2	1209.3	1215.9	1218.1
20°	1259.3	1241.1	1215.3	1213.1	1215.9	1214.8	1214.2	1213.1	1214.8	1223.0	1226.3
22.5°	1297.7	1276.8	1241.1	1231.3	1223.6	1213.1	1212.6	1212.0	1213.1	1221.4	1226.9
25°	1342.7	1317.5	1269.7	1240.0	1214.2	1200.0	1201.6	1202.2	1203.3	1209.8	1218.6
27.5°	1391.6	1363.6	1296.1	1237.3	1190.6	1180.7	1178.0	1179.6	1183.5	1193.9	1204.4
30°	1440.5	1407.5	1320.2	1226.3	1161.0	1147.2	1138.5	1142.3	1154.4	1164.8	1176.3
32.5°	1485.0	1452.0	1339.4	1202.2	1123.1	1101.7	1090.1	1095.1	1107.1	1111.0	1124.7
35°	1537.2	1499.8	1347.7	1163.7	1081.9	1048.9	1033.6	1026.4	1032.5	1028.6	1040.7
37.5°	1595.4	1556.4	1346.6	1113.2	1033.6	995.7	974.2	947.3	934.7	921.5	929.8
40°	1681.6	1625.6	1333.4	1052.2	973.7	939.1	900.7	855.1	826.5	800.7	802.4
42.5°	1799.1	1721.7	1309.2	985.2	906.1	873.7	821.6	768.3	723.3	680.4	676.6
45°	1974.3	1847.4	1279.0	913.8	833.1	801.3	744.7	684.8	633.8	578.8	572.2
47.5°	2226.9	2016.6	1250.5	832.6	756.2	727.1	676.0	620.6	560.2	506.9	500.9
50°	2574.0	2259.3	1224.1	753.5	680.4	658.5	617.8	561.3	500.3	457.5	454.7
52.5°	3015.5	2589.4	1213.1	677.1	609.6	601.4	569.0	516.2	458.6	422.3	419.6
55°	3522.4	2984.2	1213.1	604.1	547.5	550.3	527.8	478.9	428.9	396.5	393.2
57.5°	4039.8	3384.0	1191.2	536.5	494.8	506.3	492.1	449.2	404.2	370.7	365.2
60°	4516.5	3719.0	1102.2	475.0	448.1	466.3	456.9	420.1	365.2	337.2	332.8
62.5°	4882.8	3908.0	930.9	426.2	409.7	430.6	425.6	381.7	358.1	346.5	342.7
65°	5066.2	3877.2	711.7	382.8	377.3	409.7	399.3	397.6	378.9	365.8	361.4
67.5°	4953.6	3612.5	516.2	350.9	358.6	390.5	430.6	437.1	402.5	376.7	372.3
70°	4459.9	3133.6	384.4	320.7	335.0	391.0	491.0	457.5	394.9	364.7	359.7
72.5°	3392.8	2336.8	298.2	288.9	304.2	393.8	517.9	448.1	372.9	403.1	399.8
75°	1940.3	1282.9	239.4	249.9	265.8	368.0	504.1	424.0	355.9	370.1	370.1
77.5°	739.7	493.2	197.7	211.4	213.6	321.3	482.2	422.3	338.8	330.6	301.5
80°	256.5	192.8	163.7	168.0	165.3	285.6	462.4	367.4	277.3	248.2	240.0
82.5°	104.9	96.1	129.6	124.1	117.5	221.9	373.4	300.4	226.8	200.5	198.3
85°	45.6	61.0	85.7	75.2	68.1	153.8	299.3	254.3	191.7	165.3	164.8
87.5°	9.3	23.1	36.2	34.0	35.1	102.7	212.5	180.7	135.6	101.6	79.6
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)