

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: P939402

Luminaire Tested: **GALN-SB2A-727-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939402
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-727-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8248 lumens
Efficiency: N/A
Efficacy: 143.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 57.3
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

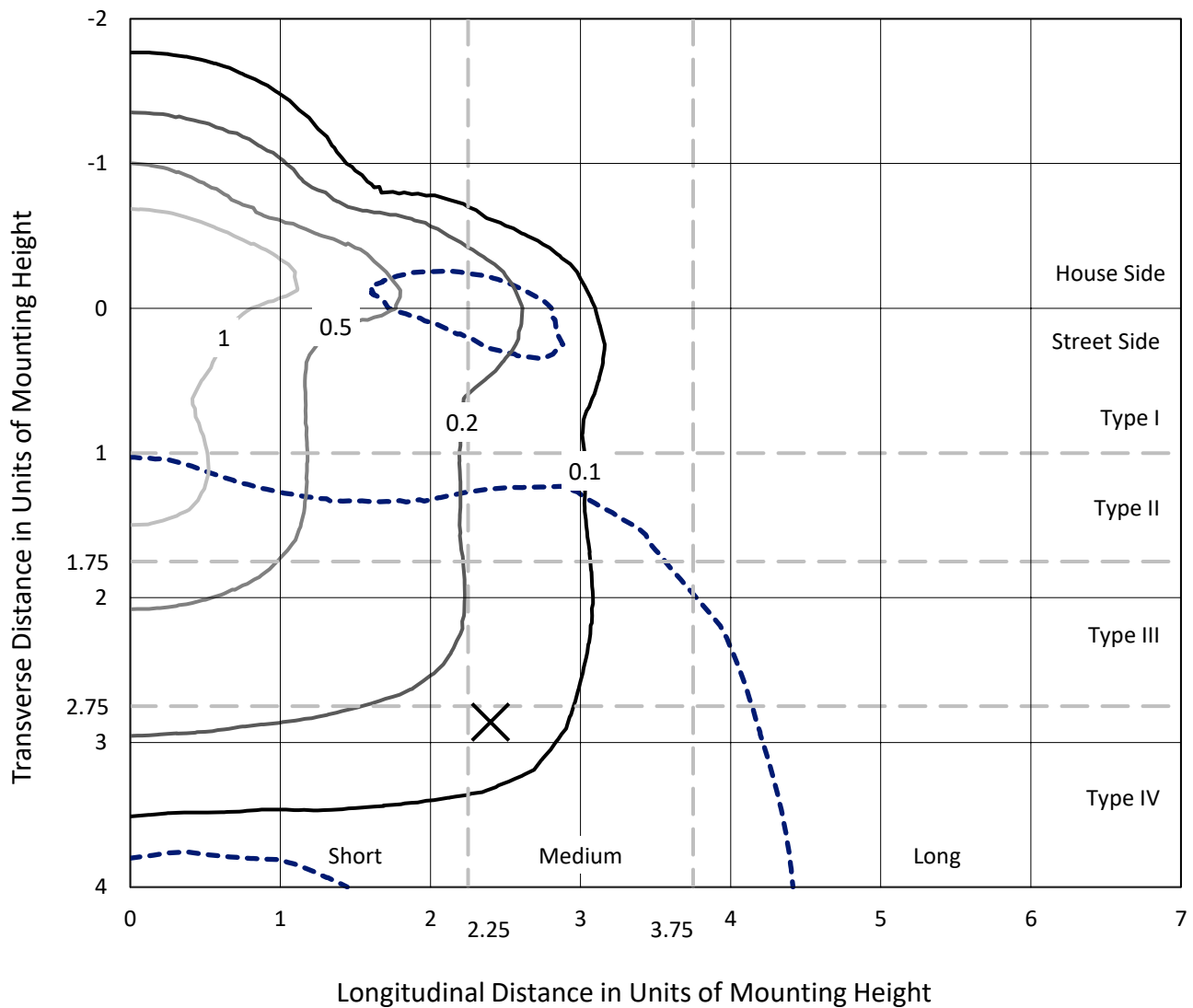


REPORT NUMBER: P939402

CATALOG NUMBER: GALN-SB2A-727-U-SL4

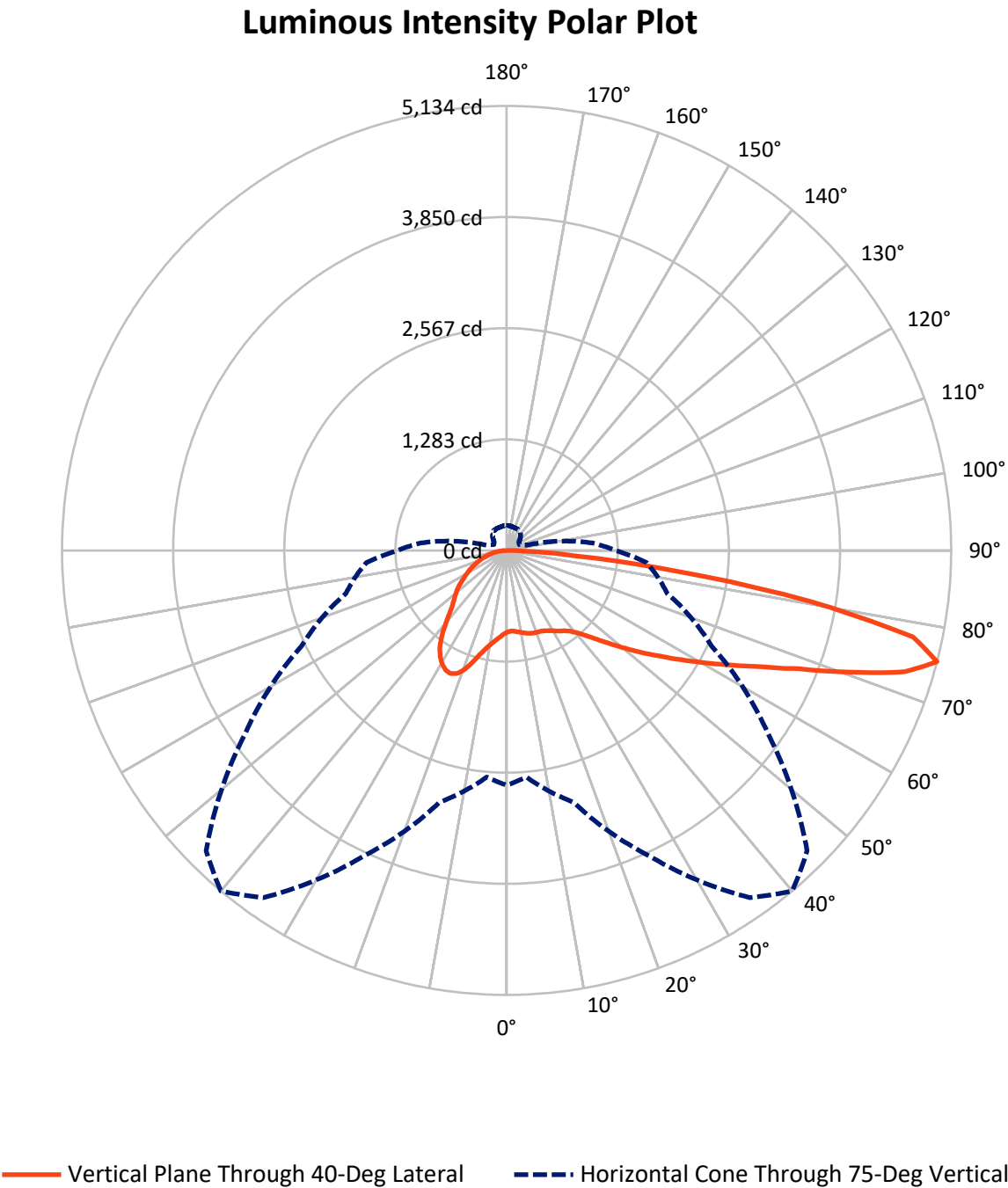
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type IV - Medium - N/A

REPORT NUMBER: P939402
CATALOG NUMBER: GALN-SB2A-727-U-SL4



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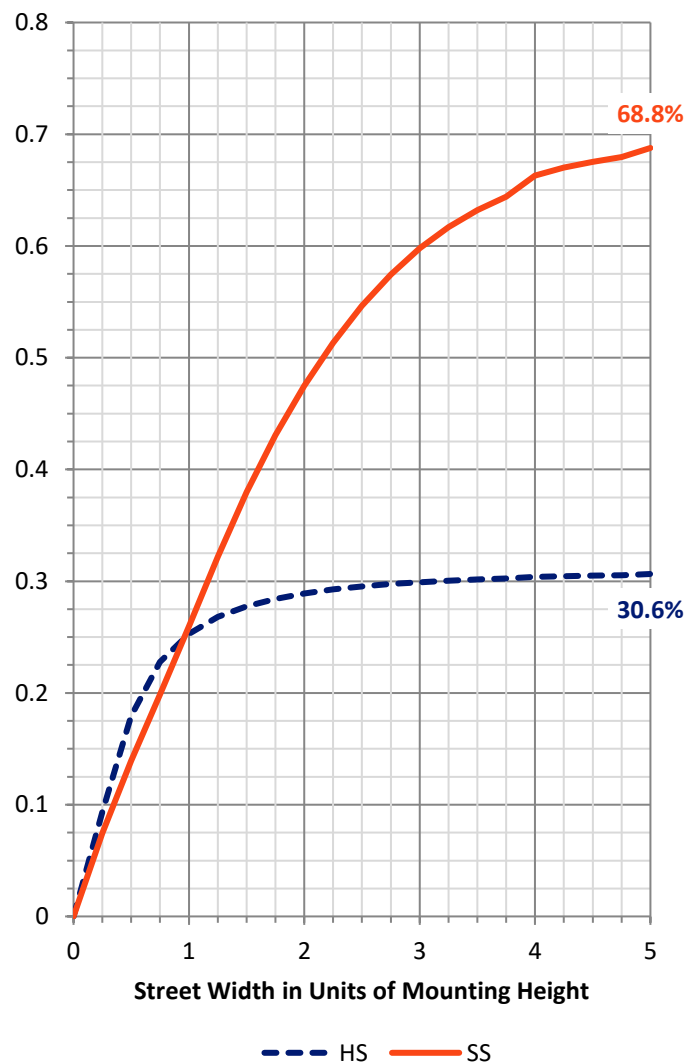
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2555.5	0.0	2555.5
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	5692.5	0.0	5692.5
	% Fixture	69.0	0.0	69.0
Total	Lumens	8248.0	0.0	8248.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.1	1.1
10°-20°	316.1	3.8
20°-30°	577.2	7.0
30°-40°	818.6	9.9
40°-50°	1105.3	13.4
50°-60°	1486.9	18.0
60°-70°	1887.3	22.9
70°-80°	1712.8	20.8
80°-90°	249.7	3.0
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°	8248.0	100.0
0°-180°	8248.0	100.0

Coefficient of Utilization



REPORT NUMBER: P939402

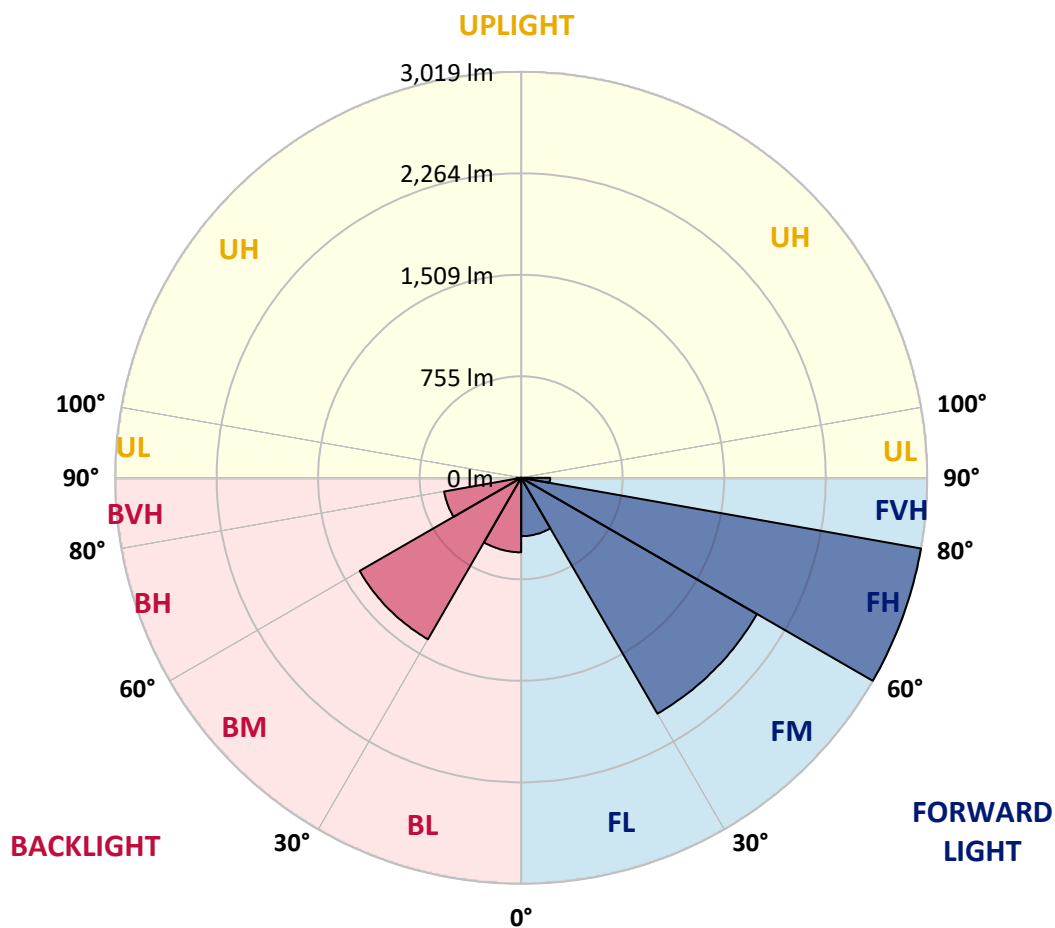
CATALOG NUMBER: GALN-SB2A-727-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	433.9	5.3			
FM	(30°-60°)	2024.7	24.5			
FH	(60°-80°)	3018.6	36.6			G2/5000
FVH	(80°-90°)	215.3	2.6			G2/225
BL	(0°-30°)	553.5	6.7	B2/1000		
BM	(30°-60°)	1386.1	16.8	B2/2500		
BH	(60°-80°)	581.5	7.0	B2/1000		G2/1000
BVH	(80°-90°)	34.4	0.4			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 Medium



REPORT NUMBER: P939402

CATALOG NUMBER: GALN-SB2A-727-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	943.2	943.2	943.2	943.2	943.2	943.2	943.2	943.2	943.2	943.2	943.2
2.5°	928.7	934.0	932.7	930.9	930.9	931.4	930.9	934.0	937.0	940.1	944.9
5°	938.4	943.6	941.0	938.8	937.0	936.6	935.3	934.9	936.6	940.5	947.1
7.5°	957.2	962.4	958.5	954.5	951.0	949.3	947.5	944.9	943.6	945.8	955.0
10°	978.2	983.4	978.6	971.6	965.9	963.7	962.0	959.4	957.6	958.9	969.0
12.5°	999.2	1004.4	997.9	988.2	980.8	979.5	977.3	976.4	976.0	975.5	985.6
15°	1018.9	1023.2	1014.9	1003.5	995.7	993.5	991.3	992.6	994.8	997.4	1008.8
17.5°	1034.2	1038.5	1026.3	1011.4	1004.0	1003.1	1001.8	1006.2	1012.3	1018.9	1032.8
20°	1048.2	1052.5	1036.8	1016.7	1007.9	1007.9	1008.4	1017.5	1026.3	1035.9	1055.2
22.5°	1067.8	1071.3	1052.1	1024.5	1011.9	1012.7	1016.2	1025.4	1036.3	1049.5	1076.2
25°	1097.2	1099.8	1076.2	1039.4	1025.0	1027.6	1030.7	1035.0	1045.5	1060.8	1096.7
27.5°	1144.4	1146.6	1115.5	1065.7	1043.8	1048.2	1052.5	1049.5	1054.3	1067.4	1113.3
30°	1210.9	1212.2	1172.8	1106.8	1075.7	1077.9	1078.8	1066.1	1056.9	1067.4	1125.2
32.5°	1289.6	1289.2	1242.4	1156.7	1112.0	1109.8	1102.4	1077.5	1056.0	1065.2	1135.7
35°	1411.7	1406.9	1346.5	1226.6	1153.2	1139.6	1122.1	1090.2	1060.4	1063.0	1144.8
37.5°	1613.8	1598.9	1515.4	1341.3	1214.4	1179.8	1154.0	1110.7	1070.0	1062.2	1155.8
40°	1841.7	1822.9	1731.0	1498.3	1306.3	1250.7	1209.1	1140.0	1085.8	1066.1	1172.0
42.5°	2112.1	2085.4	1986.5	1683.4	1422.6	1342.1	1279.6	1177.2	1109.0	1078.8	1193.8
45°	2444.1	2408.7	2268.7	1892.0	1569.2	1462.0	1378.4	1233.6	1144.4	1103.3	1226.6
47.5°	2779.6	2788.4	2589.3	2130.9	1745.0	1609.9	1502.2	1318.5	1196.0	1142.7	1279.6
50°	3136.2	3142.3	2908.3	2395.5	1944.5	1777.0	1641.4	1413.4	1267.8	1198.6	1358.8
52.5°	3414.4	3415.3	3197.9	2672.5	2152.3	1960.7	1791.4	1521.9	1350.9	1273.0	1464.2
55°	3588.5	3586.3	3400.8	2934.5	2391.2	2153.6	1957.6	1645.3	1452.4	1360.5	1596.7
57.5°	3714.9	3708.4	3540.8	3159.8	2645.8	2381.5	2145.8	1785.3	1572.2	1464.6	1771.3
60°	3763.1	3759.1	3635.8	3354.5	2913.5	2633.5	2362.7	1941.9	1708.3	1587.6	1995.7
62.5°	3781.4	3788.9	3728.9	3543.0	3200.0	2912.6	2601.2	2129.1	1861.4	1726.7	2232.4
65°	3846.2	3859.7	3847.5	3789.7	3523.8	3239.4	2917.4	2351.8	2028.5	1875.8	2479.5
67.5°	3974.3	3987.9	3993.2	4085.0	3919.2	3646.7	3312.0	2629.2	2224.1	2030.7	2665.5
70°	3971.3	3967.4	4060.1	4319.9	4414.4	4210.6	3844.0	2970.4	2457.2	2159.3	2689.1
72.5°	3614.8	3583.3	3802.4	4317.3	4826.5	4799.4	4493.6	3410.5	2658.5	2175.1	2333.4
75°	2711.8	2627.8	3015.0	3890.8	4895.2	5133.6	4906.6	3683.4	2610.8	1921.8	1623.9
77.5°	1159.7	1075.3	1531.6	2880.3	4381.2	4799.0	4527.7	3213.6	2084.1	1270.8	797.5
80°	303.6	303.2	462.8	1305.8	2979.6	3543.9	3109.0	2075.3	1190.8	454.1	220.0
82.5°	125.6	122.5	170.2	507.9	1455.9	1988.7	1623.0	925.7	430.0	122.9	73.1
85°	46.8	46.4	82.7	175.4	513.6	820.2	593.6	236.7	107.2	59.9	32.8
87.5°	13.1	12.7	17.9	60.8	125.1	189.9	101.5	38.9	30.2	23.6	9.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939402

CATALOG NUMBER: GALN-SB2A-727-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	943.2	943.2	943.2	943.2	943.2	943.2	943.2	943.2	943.2	943.2	943.2
2.5°	946.2	948.4	952.4	955.4	959.4	963.7	969.9	973.8	977.7	980.4	978.6
5°	950.2	955.0	965.0	975.1	986.9	997.9	1010.5	1019.7	1027.2	1029.3	1030.2
7.5°	958.9	966.8	983.9	1000.9	1019.7	1037.7	1056.0	1071.8	1084.5	1089.3	1089.7
10°	974.2	984.7	1008.8	1032.8	1057.8	1085.3	1109.0	1131.7	1149.7	1157.1	1157.5
12.5°	993.5	1006.6	1038.1	1071.3	1105.9	1144.0	1174.6	1202.6	1224.9	1235.0	1235.0
15°	1018.4	1035.5	1075.7	1120.3	1171.1	1224.0	1263.0	1294.0	1319.0	1331.2	1330.3
17.5°	1045.5	1068.3	1119.0	1186.4	1259.0	1328.6	1374.1	1396.8	1422.6	1434.4	1434.0
20°	1071.8	1099.8	1172.4	1270.4	1367.1	1441.0	1477.7	1483.9	1485.6	1486.9	1490.4
22.5°	1098.9	1136.5	1239.3	1376.3	1479.9	1531.1	1536.4	1510.1	1473.4	1456.3	1461.1
25°	1128.7	1178.5	1326.8	1493.1	1577.1	1583.2	1542.9	1479.1	1409.5	1377.6	1382.4
27.5°	1157.5	1227.1	1431.8	1604.6	1647.0	1593.2	1506.6	1416.1	1332.1	1298.4	1302.3
30°	1186.4	1282.6	1547.7	1702.2	1679.0	1568.3	1449.3	1348.3	1263.8	1228.4	1232.3
32.5°	1215.7	1347.4	1681.2	1772.6	1673.3	1515.4	1378.0	1272.1	1197.8	1160.6	1165.4
35°	1249.0	1427.0	1807.6	1811.1	1635.2	1437.5	1284.0	1181.1	1116.4	1086.7	1093.2
37.5°	1292.3	1528.1	1919.1	1820.7	1568.7	1323.3	1167.2	1073.5	1020.2	1006.6	1016.2
40°	1346.1	1649.7	2004.5	1805.4	1470.3	1184.6	1039.4	964.6	934.4	937.5	948.0
42.5°	1416.1	1785.7	2064.4	1766.0	1333.4	1041.6	927.4	894.2	908.6	920.9	932.2
45°	1507.1	1927.0	2101.6	1699.1	1178.5	920.4	861.4	869.2	880.2	881.5	890.2
47.5°	1623.4	2070.1	2126.1	1598.1	1020.6	835.1	819.4	821.1	818.9	809.7	816.7
50°	1768.7	2209.2	2147.9	1464.2	886.3	781.7	760.7	754.6	724.4	694.7	698.6
52.5°	1934.0	2336.9	2157.1	1298.0	781.7	737.1	703.0	664.5	608.1	598.9	601.9
55°	2117.8	2455.0	2133.5	1093.7	693.8	679.8	628.2	581.8	575.7	567.8	569.1
57.5°	2337.4	2582.3	2085.4	865.7	603.7	612.9	562.6	567.8	556.9	544.6	542.5
60°	2577.5	2714.0	2001.0	657.9	510.5	529.3	545.5	545.1	542.0	532.0	528.5
62.5°	2793.6	2800.6	1834.7	504.0	428.7	464.6	508.8	508.3	505.7	500.0	497.8
65°	2922.3	2787.5	1557.4	396.8	361.3	411.2	458.9	462.4	462.8	462.4	462.4
67.5°	2899.5	2634.0	1176.8	315.8	305.8	357.0	409.5	414.3	417.8	418.7	419.5
70°	2642.3	2296.7	767.3	252.0	256.4	309.3	362.7	367.5	370.5	374.0	375.8
72.5°	2059.6	1688.6	439.2	203.9	213.0	268.2	316.3	322.0	323.7	330.3	332.9
75°	1255.1	993.0	237.1	160.5	175.0	229.2	270.4	276.9	280.0	287.9	288.7
77.5°	596.7	430.0	135.2	125.1	140.9	187.2	228.4	235.8	227.5	231.9	228.4
80°	201.7	159.7	85.3	95.4	107.6	146.1	182.9	190.3	172.8	171.9	170.2
82.5°	70.4	64.7	54.2	63.4	69.6	104.6	138.2	147.9	128.6	128.2	122.1
85°	27.6	26.2	30.2	34.6	41.6	64.3	91.0	95.8	79.2	63.9	63.0
87.5°	5.7	6.1	7.4	7.9	12.7	22.3	32.8	40.2	31.9	27.1	24.9
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)