

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: P939239

Luminaire Tested: **GALN-SB1D-727-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-727-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9332 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 79.6
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



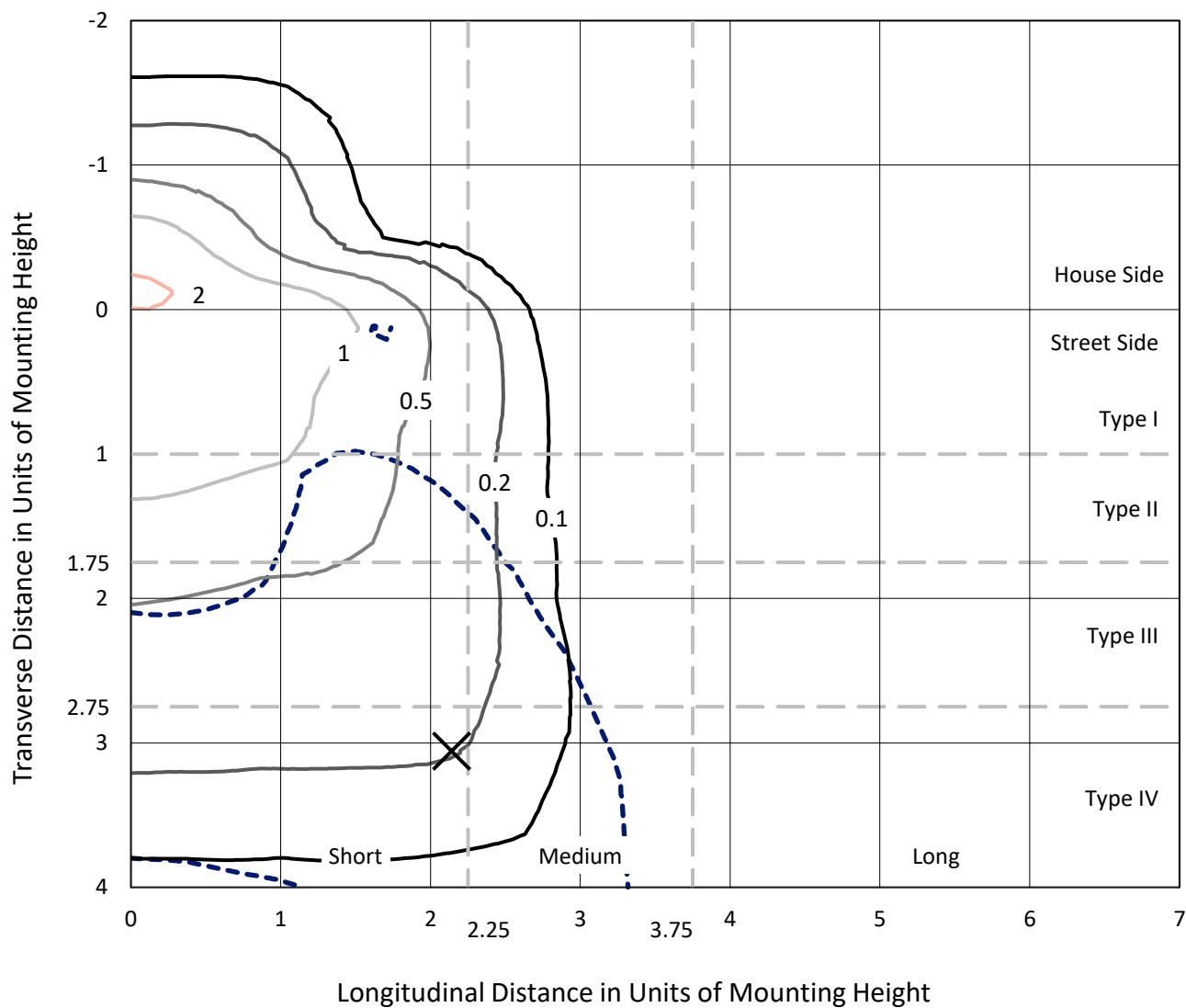
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



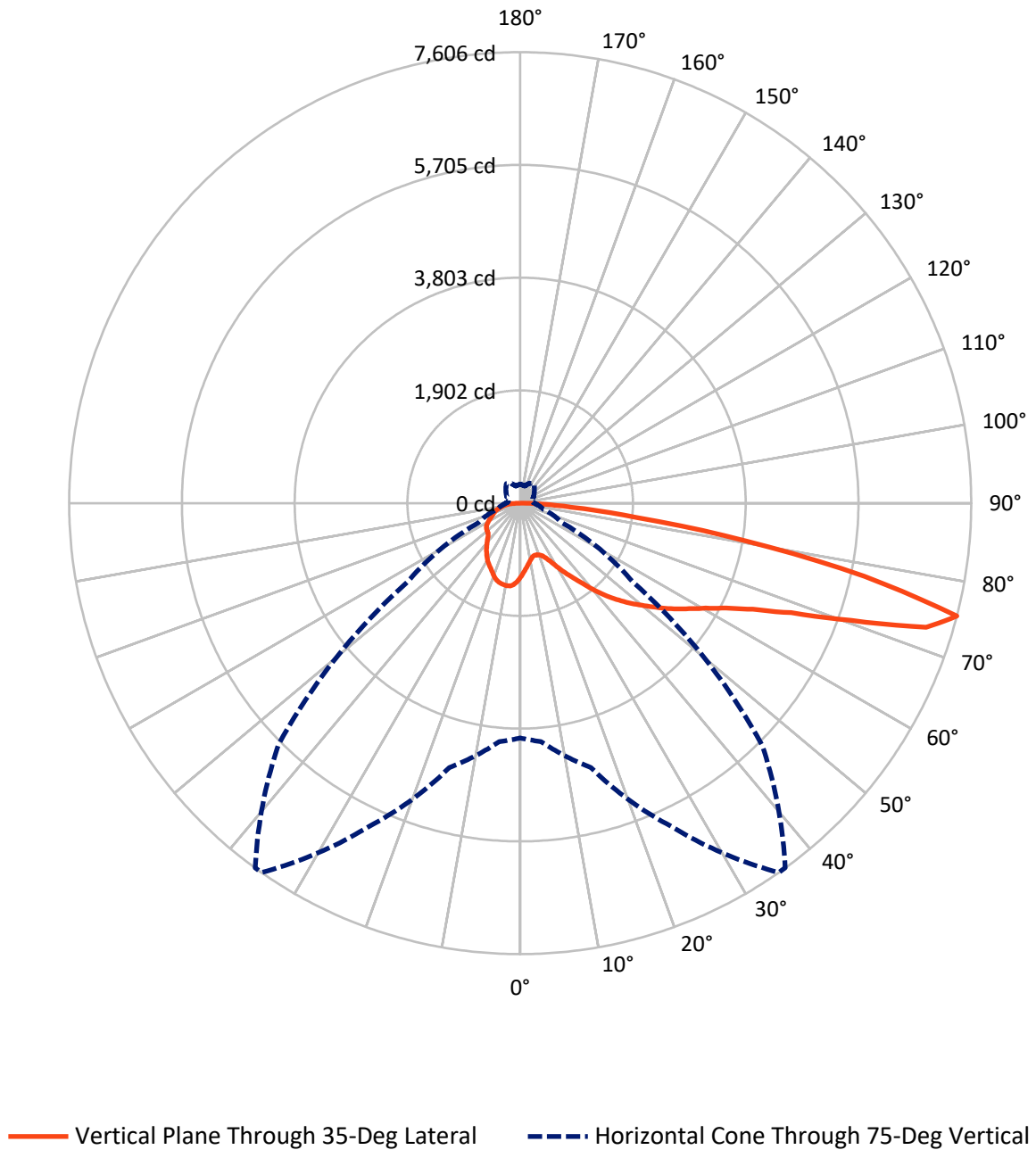
Based on 25 foot mounting height. Maximum calculated value = 2.2 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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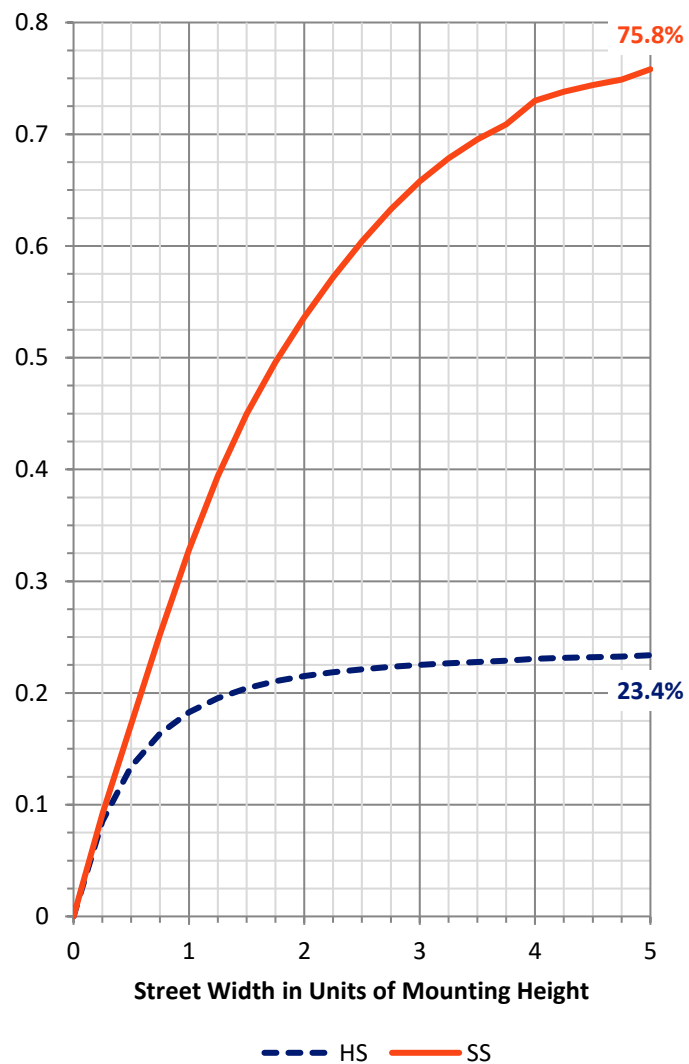
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2220.8	0.0	2220.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	7111.2	0.0	7111.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	9332.0	0.0	9332.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	1.3
10°-20°	339.6	3.6
20°-30°	570.3	6.1
30°-40°	886.3	9.5
40°-50°	1315.5	14.1
50°-60°	1816.2	19.5
60°-70°	2203.4	23.6
70°-80°	1821.0	19.5
80°-90°	261.9	2.8
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°	9332.0	100.0
0°-180°	9332.0	100.0

Coefficient of Utilization



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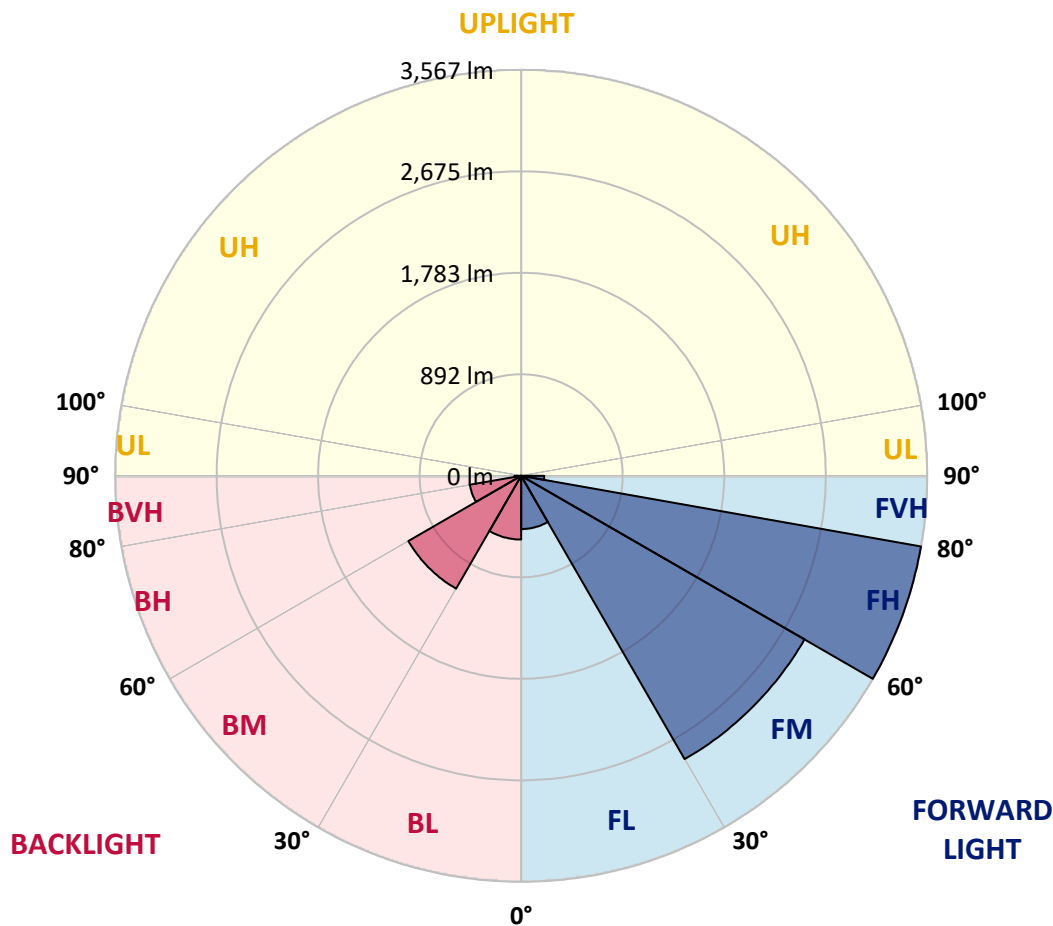
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	468.0	5.0			
FM	(30°-60°)	2873.8	30.8			
FH	(60°-80°)	3566.6	38.2			G2/5000
FVH	(80°-90°)	202.9	2.2			G2/225
BL	(0°-30°)	559.7	6.0	B2/1000		
BM	(30°-60°)	1144.3	12.3	B2/2500		
BH	(60°-80°)	457.9	4.9	B1/500		G1/500
BVH	(80°-90°)	59.0	0.6			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°	36°	45°	55°	65°	75°	85°
0°	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6
2.5°	1146.7	1153.8	1156.8	1155.3	1162.8	1161.8	1172.4	1185.5	1203.7	1221.4	1247.1
5°	1058.4	1066.0	1072.5	1078.6	1093.2	1097.8	1114.4	1139.6	1172.9	1206.7	1249.1
7.5°	976.2	982.7	992.8	1003.9	1028.6	1033.2	1060.9	1100.3	1146.7	1196.1	1254.7
10°	909.1	915.6	926.2	938.8	969.6	975.2	1010.5	1062.9	1123.5	1186.0	1260.7
12.5°	880.3	882.3	888.4	901.0	927.7	931.3	970.1	1030.2	1100.8	1178.5	1269.8
15°	878.8	882.8	883.4	889.9	912.1	913.6	949.4	1009.0	1086.7	1177.0	1283.4
17.5°	893.9	897.0	892.4	896.5	915.1	917.7	945.9	998.9	1082.1	1183.5	1306.6
20°	934.3	936.8	923.2	917.7	931.3	933.3	961.0	1005.4	1086.7	1197.1	1338.4
22.5°	1020.1	1021.6	988.3	965.6	966.6	967.6	991.8	1032.2	1104.3	1221.9	1378.8
25°	1153.8	1152.7	1099.8	1055.9	1030.7	1025.1	1041.3	1075.6	1134.1	1254.7	1430.7
27.5°	1310.1	1302.6	1249.6	1184.0	1129.0	1121.0	1117.4	1132.1	1176.5	1298.0	1494.3
30°	1486.7	1479.7	1422.6	1336.9	1260.7	1247.6	1214.3	1206.7	1239.5	1357.1	1582.6
32.5°	1680.4	1675.9	1607.8	1503.9	1402.0	1386.8	1330.8	1310.6	1336.4	1446.4	1705.7
35°	1842.9	1838.8	1782.3	1675.4	1550.8	1532.1	1475.1	1452.4	1465.5	1560.9	1866.6
37.5°	1989.7	1987.7	1939.2	1855.0	1726.3	1703.6	1639.6	1632.0	1629.5	1711.7	2061.8
40°	2125.9	2120.8	2070.4	2026.0	1930.7	1910.0	1853.5	1846.9	1827.7	1897.4	2282.8
42.5°	2276.7	2263.6	2190.5	2169.8	2144.1	2126.9	2093.1	2094.1	2051.7	2106.7	2516.9
45°	2399.8	2392.3	2317.1	2305.0	2332.7	2325.7	2354.9	2362.5	2280.3	2326.2	2760.0
47.5°	2532.0	2524.9	2461.4	2452.8	2528.0	2530.0	2633.4	2635.9	2503.2	2554.2	3003.7
50°	2695.0	2684.9	2621.8	2632.4	2716.6	2724.2	2913.4	2896.2	2708.6	2785.8	3245.3
52.5°	2802.4	2808.5	2794.8	2812.0	2927.0	2934.1	3188.8	3145.0	2911.9	3014.3	3482.5
55°	2881.6	2893.7	2936.1	2975.4	3149.0	3156.0	3448.7	3381.6	3080.4	3226.2	3705.4
57.5°	2983.5	2966.4	3045.6	3122.2	3359.9	3378.5	3701.4	3609.6	3229.7	3408.8	3858.3
60°	3129.8	3117.7	3179.3	3292.8	3596.0	3625.7	3968.8	3814.9	3339.2	3553.6	3888.1
62.5°	3426.5	3396.2	3405.8	3506.2	3893.6	3933.0	4270.5	3994.0	3393.7	3610.1	3728.6
65°	3869.9	3817.9	3769.5	3839.1	4312.8	4351.7	4611.0	4134.7	3373.5	3500.6	3305.4
67.5°	4428.4	4376.9	4317.4	4383.0	4930.3	4961.1	5031.2	4214.0	3214.6	3078.9	2557.2
70°	4889.0	4869.8	4940.9	5210.8	5916.6	5917.6	5570.0	4148.4	2779.2	2182.9	1479.7
72.5°	4827.9	4816.3	5191.1	6025.6	7159.6	7132.9	6080.0	3652.0	1872.1	984.8	554.4
75°	3960.7	4035.9	4616.5	6010.9	7606.1	7602.6	5767.8	2321.6	774.4	408.1	286.5
77.5°	2123.9	2242.9	2997.1	4437.9	5937.8	6027.1	4055.0	812.2	332.5	261.3	198.3
80°	692.7	796.6	1194.6	2259.6	3858.3	3841.6	1737.9	318.8	227.5	185.1	137.2
82.5°	294.1	306.2	533.7	1067.0	1980.1	1949.3	553.4	183.1	159.9	126.6	84.8
85°	115.0	128.6	235.6	493.4	857.6	839.0	199.8	90.8	102.4	82.7	50.4
87.5°	37.8	45.9	84.2	169.0	266.9	257.3	48.9	31.3	44.4	37.8	18.2
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°	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6
2.5°	1254.1	1262.2	1271.8	1285.9	1298.0	1308.1	1318.7	1325.3	1327.8	1335.4	1334.9
5°	1263.2	1280.9	1304.6	1327.8	1350.5	1364.1	1376.2	1382.3	1387.8	1391.9	1392.9
7.5°	1278.4	1301.1	1338.4	1368.7	1387.8	1398.9	1407.0	1405.0	1407.0	1408.0	1409.5
10°	1291.5	1323.3	1367.7	1396.4	1411.0	1411.5	1409.5	1402.5	1398.9	1399.4	1400.4
12.5°	1307.1	1342.4	1390.4	1414.6	1418.6	1407.5	1398.9	1386.8	1382.3	1380.3	1379.3
15°	1328.3	1368.7	1415.1	1424.2	1414.1	1399.9	1385.3	1365.6	1355.5	1347.5	1350.0
17.5°	1354.0	1398.4	1434.2	1427.7	1406.0	1382.8	1359.1	1329.3	1308.6	1300.1	1300.6
20°	1389.9	1429.7	1448.9	1420.1	1387.3	1352.0	1311.7	1275.3	1256.2	1247.6	1246.6
22.5°	1433.2	1471.6	1463.0	1407.0	1360.6	1304.1	1253.6	1226.9	1217.3	1211.3	1212.3
25°	1485.2	1518.0	1473.1	1387.8	1316.7	1240.5	1201.7	1193.1	1188.6	1184.0	1184.0
27.5°	1552.8	1570.5	1480.7	1359.6	1248.1	1172.9	1158.8	1160.3	1158.8	1151.2	1152.7
30°	1642.1	1638.6	1487.7	1313.7	1169.4	1111.9	1112.9	1119.4	1120.5	1115.4	1117.9
32.5°	1759.6	1723.8	1491.3	1254.1	1094.2	1058.4	1059.4	1066.5	1071.5	1062.9	1067.0
35°	1901.9	1823.2	1485.7	1179.5	1036.2	1007.5	999.9	1001.9	1003.4	995.3	1000.9
37.5°	2067.9	1934.7	1461.0	1096.7	988.3	957.5	941.4	927.7	919.7	912.1	917.2
40°	2250.0	2056.3	1415.6	1016.0	934.8	904.5	880.3	854.6	827.4	817.3	821.8
42.5°	2440.7	2181.4	1360.6	938.8	873.3	848.5	822.8	785.5	744.6	723.9	726.5
45°	2638.4	2309.5	1306.6	862.7	810.2	799.6	769.8	724.9	680.5	654.3	652.3
47.5°	2832.2	2430.6	1227.4	786.0	751.2	762.8	739.6	698.2	648.8	607.4	602.9
50°	3017.3	2544.1	1097.8	708.3	703.3	751.7	729.5	670.0	613.5	560.5	555.9
52.5°	3200.9	2635.9	931.8	637.7	677.5	748.7	716.4	650.8	581.7	526.2	520.1
55°	3356.8	2683.3	771.9	577.1	640.2	722.9	700.7	628.1	536.8	477.7	472.7
57.5°	3445.6	2645.0	638.7	517.6	588.7	680.5	674.0	579.7	483.3	437.9	431.8
60°	3407.3	2489.6	529.7	465.6	539.8	634.6	627.6	531.7	442.4	399.6	393.5
62.5°	3195.9	2193.5	443.4	420.2	495.4	587.7	581.2	494.9	411.2	369.8	363.2
65°	2770.1	1784.4	376.3	382.4	450.5	531.2	540.8	464.1	386.4	346.1	339.5
67.5°	2112.8	1292.5	323.9	349.6	406.6	475.7	503.5	441.9	365.8	327.4	321.4
70°	1204.2	734.0	279.5	317.8	367.8	424.3	474.7	424.3	343.6	311.8	307.7
72.5°	456.6	337.0	241.6	286.0	330.4	380.9	442.9	396.5	317.8	294.1	290.1
75°	243.7	205.3	203.3	248.7	287.6	338.5	403.1	369.3	298.7	310.8	320.9
77.5°	166.0	145.3	170.0	212.9	240.6	291.6	360.7	327.9	258.8	257.8	237.6
80°	115.0	102.9	138.2	171.5	186.2	245.2	314.8	281.5	210.9	196.7	188.2
82.5°	69.1	67.1	103.4	128.1	131.7	189.2	260.8	236.1	172.5	150.3	151.3
85°	37.8	39.9	66.1	75.2	76.7	132.2	204.3	182.6	132.7	111.5	112.5
87.5°	10.6	13.6	24.2	29.8	36.8	68.6	121.6	108.5	66.6	46.4	46.4
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)