

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: P939569

Luminaire Tested: **GALN-SB2B-722-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939569
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-SB2B-722-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9194 lumens
Efficiency: N/A
Efficacy: 124.4 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



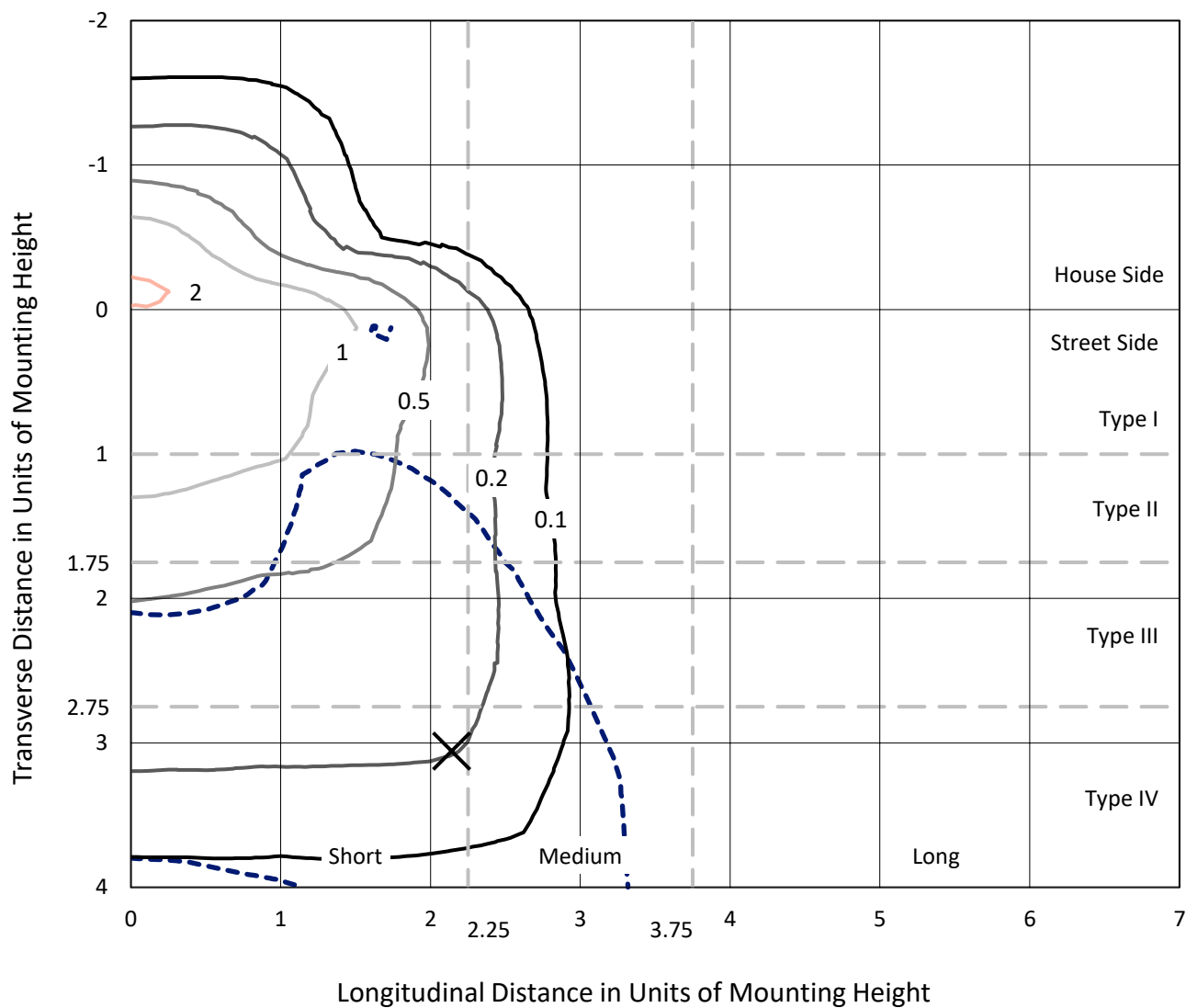
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

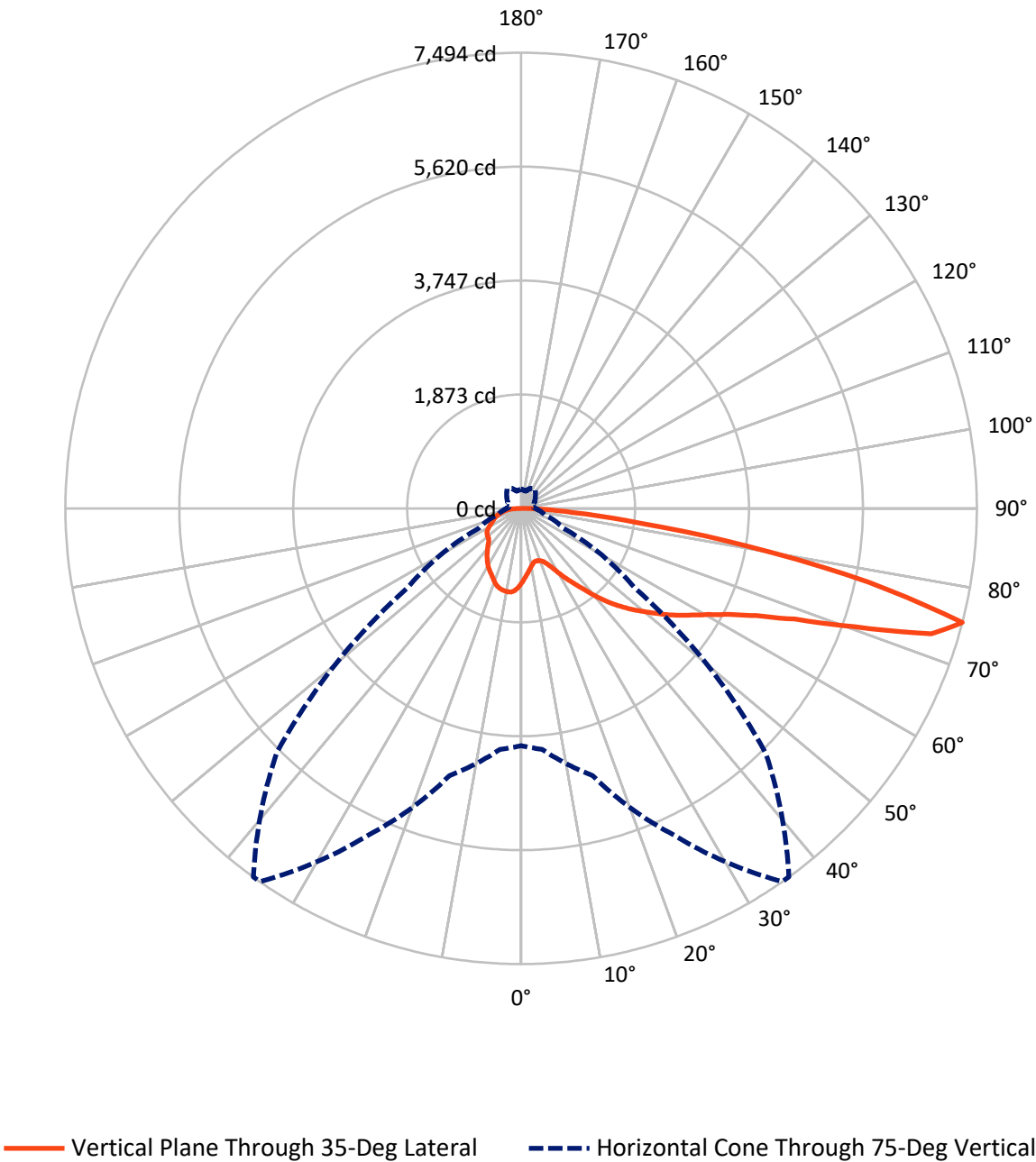


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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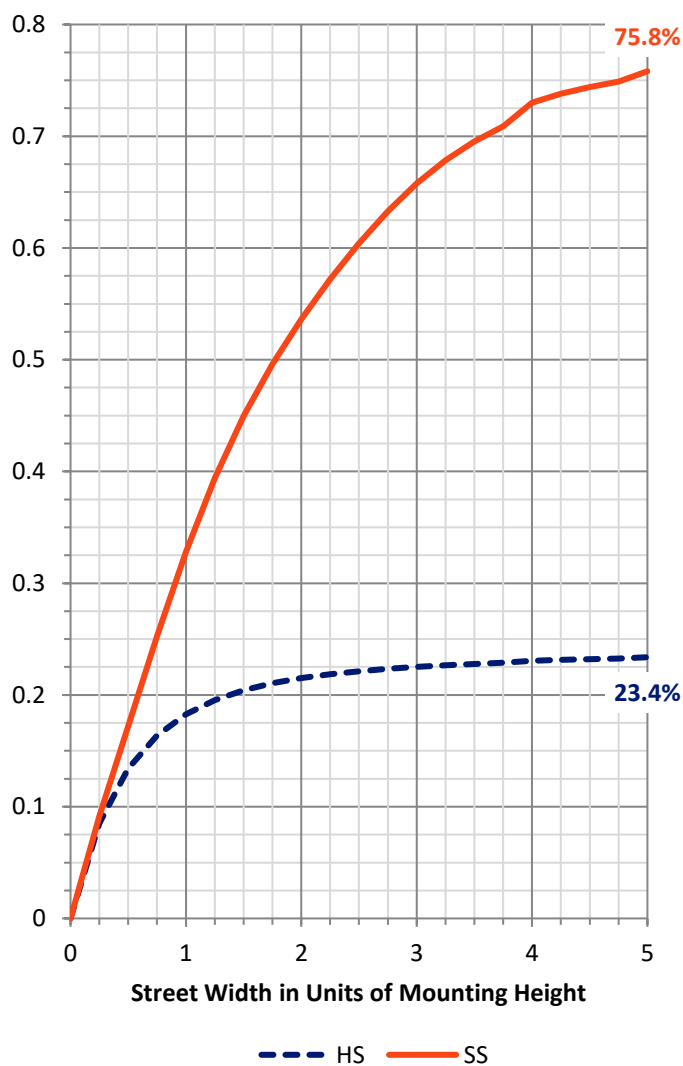
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2187.9	0.0	2187.9
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	7006.1	0.0	7006.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	9194.0	0.0	9194.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.0	1.3
10°-20°	334.6	3.6
20°-30°	561.9	6.1
30°-40°	873.2	9.5
40°-50°	1296.1	14.1
50°-60°	1789.3	19.5
60°-70°	2170.9	23.6
70°-80°	1794.0	19.5
80°-90°	258.0	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°	9194.0	100.0
0°-180°	9194.0	100.0

Coefficient of Utilization



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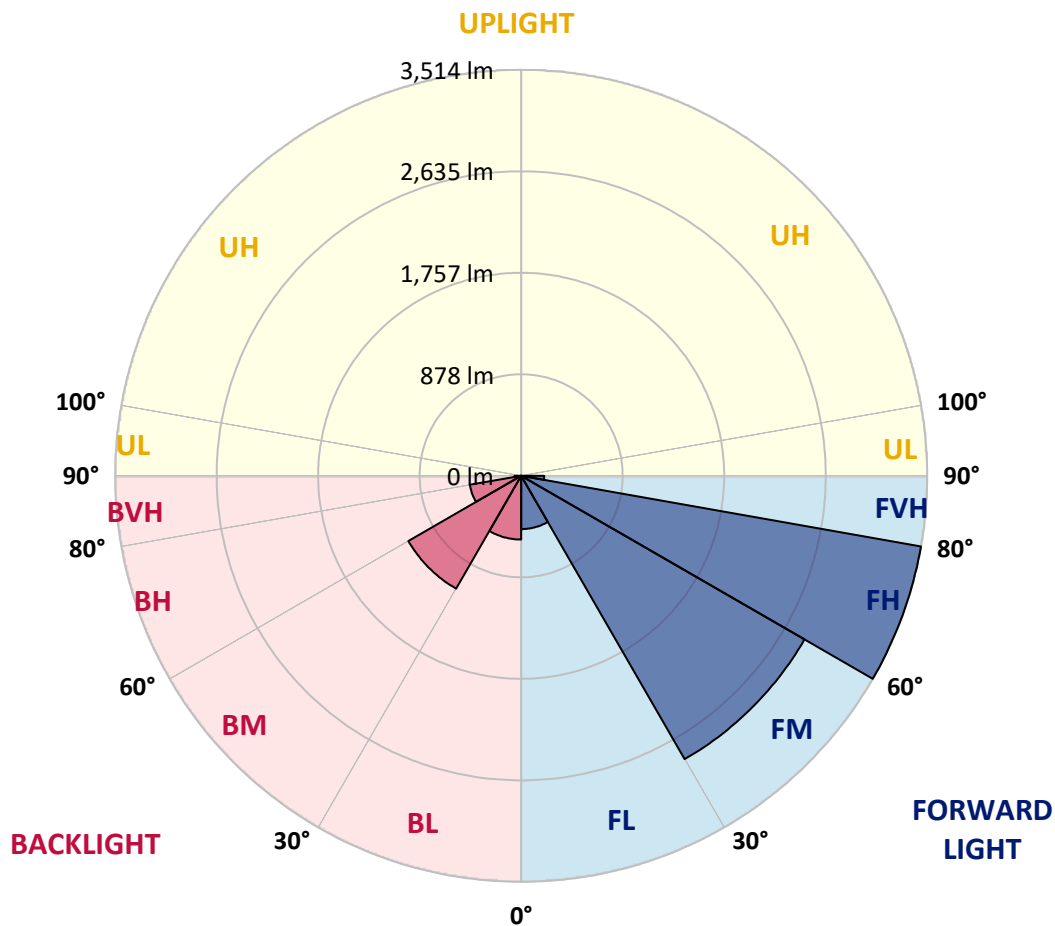
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	461.1	5.0			
FM	(30°-60°)	2831.3	30.8			
FH	(60°-80°)	3513.8	38.2			G2/5000
FVH	(80°-90°)	199.9	2.2			G2/225
BL	(0°-30°)	551.4	6.0	B2/1000		
BM	(30°-60°)	1127.4	12.3	B2/2500		
BH	(60°-80°)	451.1	4.9	B1/500		G1/500
BVH	(80°-90°)	58.1	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°	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2
2.5°	1129.7	1136.7	1139.7	1138.2	1145.6	1144.6	1155.1	1168.0	1185.9	1203.3	1228.6
5°	1042.8	1050.2	1056.7	1062.6	1077.0	1081.5	1097.9	1122.8	1155.6	1188.9	1230.6
7.5°	961.7	968.2	978.1	989.1	1013.4	1017.9	1045.2	1084.0	1129.7	1178.4	1236.1
10°	895.6	902.1	912.5	925.0	955.3	960.7	995.5	1047.2	1106.9	1168.5	1242.1
12.5°	867.3	869.3	875.3	887.7	914.0	917.5	955.8	1014.9	1084.5	1161.0	1251.0
15°	865.8	869.8	870.3	876.7	898.6	900.1	935.4	994.0	1070.6	1159.6	1264.4
17.5°	880.7	883.7	879.2	883.2	901.6	904.1	931.9	984.1	1066.1	1166.0	1287.3
20°	920.5	923.0	909.6	904.1	917.5	919.5	946.8	990.6	1070.6	1179.4	1318.6
22.5°	1005.0	1006.5	973.7	951.3	952.3	953.3	977.1	1016.9	1088.0	1203.8	1358.4
25°	1136.7	1135.7	1083.5	1040.3	1015.4	1010.0	1025.9	1059.7	1117.3	1236.1	1409.6
27.5°	1290.8	1283.3	1231.1	1166.5	1112.3	1104.4	1100.9	1115.3	1159.1	1278.8	1472.2
30°	1464.7	1457.8	1401.6	1317.1	1242.1	1229.1	1196.3	1188.9	1221.2	1337.0	1559.2
32.5°	1655.6	1651.1	1584.0	1481.6	1381.2	1366.3	1311.1	1291.3	1316.6	1425.0	1680.4
35°	1815.6	1811.7	1756.0	1650.6	1527.8	1509.5	1453.3	1430.9	1443.9	1537.8	1839.0
37.5°	1960.3	1958.3	1910.6	1827.6	1700.8	1678.4	1615.3	1607.9	1605.4	1686.4	2031.3
40°	2094.5	2089.5	2039.8	1996.0	1902.1	1881.7	1826.1	1819.6	1800.7	1869.3	2249.0
42.5°	2243.1	2230.1	2158.1	2137.7	2112.3	2095.5	2062.2	2063.1	2021.4	2075.6	2479.6
45°	2364.3	2356.9	2282.8	2270.9	2298.2	2291.3	2320.1	2327.6	2246.5	2291.8	2719.2
47.5°	2494.6	2487.6	2425.0	2416.5	2490.6	2492.6	2594.5	2596.9	2466.2	2516.4	2959.3
50°	2655.1	2645.2	2583.0	2593.5	2676.5	2683.9	2870.3	2853.4	2668.5	2744.6	3197.4
52.5°	2761.0	2766.9	2753.5	2770.4	2883.7	2890.7	3141.7	3098.4	2868.8	2969.7	3431.0
55°	2839.0	2850.9	2892.7	2931.4	3102.4	3109.4	3397.7	3331.5	3034.8	3178.5	3650.6
57.5°	2939.4	2922.5	3000.5	3076.1	3310.2	3328.6	3646.7	3556.2	3181.9	3358.4	3801.2
60°	3083.5	3071.6	3132.2	3244.1	3542.8	3572.1	3910.1	3758.5	3289.8	3501.0	3830.6
62.5°	3375.8	3346.0	3355.4	3454.3	3836.0	3874.8	4207.3	3934.9	3343.5	3556.7	3673.5
65°	3812.7	3761.5	3713.8	3782.3	4249.1	4287.3	4542.8	4073.6	3323.6	3448.8	3256.5
67.5°	4362.9	4312.2	4253.5	4318.1	4857.4	4887.7	4956.8	4151.6	3167.0	3033.3	2519.4
70°	4816.7	4797.8	4867.8	5133.8	5829.1	5830.1	5487.6	4087.0	2738.1	2150.6	1457.8
72.5°	4756.5	4745.1	5114.4	5936.4	7053.8	7027.4	5990.1	3598.0	1844.5	970.2	546.2
75°	3902.1	3976.2	4548.3	5922.0	7493.6	7490.1	5682.5	2287.3	762.9	402.1	282.3
77.5°	2092.5	2209.8	2952.8	4372.3	5850.0	5937.9	3995.1	800.2	327.5	257.5	195.3
80°	682.4	784.8	1177.0	2226.2	3801.2	3784.8	1712.2	314.1	224.2	182.4	135.2
82.5°	289.8	301.7	525.9	1051.2	1950.8	1920.5	545.2	180.4	157.6	124.8	83.5
85°	113.3	126.7	232.1	486.1	844.9	826.5	196.8	89.5	100.9	81.5	49.7
87.5°	37.3	45.2	83.0	166.5	262.9	253.5	48.2	30.8	43.7	37.3	17.9
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°	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2
2.5°	1235.6	1243.6	1253.0	1266.9	1278.8	1288.8	1299.2	1305.7	1308.2	1315.6	1315.1
5°	1244.5	1261.9	1285.3	1308.2	1330.5	1344.0	1355.9	1361.8	1367.3	1371.3	1372.3
7.5°	1259.5	1281.8	1318.6	1348.4	1367.3	1378.2	1386.2	1384.2	1386.2	1387.2	1388.7
10°	1272.4	1303.7	1347.4	1375.8	1390.2	1390.7	1388.7	1381.7	1378.2	1378.7	1379.7
12.5°	1287.8	1322.6	1369.8	1393.7	1397.6	1386.7	1378.2	1366.3	1361.8	1359.9	1358.9
15°	1308.7	1348.4	1394.2	1403.1	1393.2	1379.2	1364.8	1345.4	1335.5	1327.5	1330.0
17.5°	1334.0	1377.7	1413.0	1406.6	1385.2	1362.3	1339.0	1309.7	1289.3	1280.8	1281.3
20°	1369.3	1408.6	1427.5	1399.1	1366.8	1332.0	1292.3	1256.5	1237.6	1229.1	1228.1
22.5°	1412.0	1449.8	1441.4	1386.2	1340.5	1284.8	1235.1	1208.8	1199.3	1193.4	1194.3
25°	1463.2	1495.5	1451.3	1367.3	1297.2	1222.2	1183.9	1175.5	1171.0	1166.5	1166.5
27.5°	1529.8	1547.2	1458.8	1339.5	1229.6	1155.6	1141.7	1143.2	1141.7	1134.2	1135.7
30°	1617.8	1614.3	1465.7	1294.2	1152.1	1095.4	1096.4	1102.9	1103.9	1098.9	1101.4
32.5°	1733.6	1698.3	1469.2	1235.6	1078.0	1042.8	1043.7	1050.7	1055.7	1047.2	1051.2
35°	1873.8	1796.2	1463.7	1162.0	1020.9	992.6	985.1	987.1	988.6	980.6	986.1
37.5°	2037.3	1906.1	1439.4	1080.5	973.7	943.4	927.4	914.0	906.1	898.6	903.6
40°	2216.7	2025.9	1394.6	1001.0	921.0	891.2	867.3	842.0	815.1	805.2	809.7
42.5°	2404.6	2149.1	1340.5	925.0	860.3	836.0	810.6	773.9	733.6	713.2	715.7
45°	2599.4	2275.4	1287.3	849.9	798.2	787.8	758.5	714.2	670.5	644.6	642.7
47.5°	2790.3	2394.7	1209.3	774.4	740.1	751.5	728.6	687.9	639.2	598.4	593.9
50°	2972.7	2506.5	1081.5	697.8	692.9	740.6	718.7	660.0	604.4	552.2	547.7
52.5°	3153.6	2596.9	918.0	628.2	667.5	737.6	705.8	641.2	573.1	518.4	512.4
55°	3307.2	2643.7	760.4	568.6	630.7	712.2	690.4	618.8	528.8	470.7	465.7
57.5°	3394.7	2605.9	629.2	509.9	580.0	670.5	664.0	571.1	476.1	431.4	425.5
60°	3356.9	2452.8	521.9	458.8	531.8	625.3	618.3	523.9	435.9	393.6	387.7
62.5°	3148.6	2161.1	436.9	414.0	488.1	579.0	572.6	487.6	405.1	364.3	357.9
65°	2729.2	1758.0	370.8	376.7	443.8	523.4	532.8	457.3	380.7	341.0	334.5
67.5°	2081.5	1273.4	319.1	344.4	400.6	468.7	496.0	435.4	360.3	322.6	316.6
70°	1186.4	723.2	275.4	313.1	362.3	418.0	467.7	418.0	338.5	307.2	303.2
72.5°	449.8	332.0	238.1	281.8	325.6	375.3	436.4	390.7	313.1	289.8	285.8
75°	240.1	202.3	200.3	245.0	283.3	333.5	397.1	363.8	294.2	306.2	316.1
77.5°	163.5	143.1	167.5	209.7	237.1	287.3	355.4	323.1	255.0	254.0	234.1
80°	113.3	101.4	136.2	169.0	183.4	241.6	310.1	277.3	207.8	193.8	185.4
82.5°	68.1	66.1	101.9	126.2	129.7	186.4	257.0	232.6	170.0	148.1	149.1
85°	37.3	39.3	65.1	74.1	75.5	130.2	201.3	179.9	130.7	109.8	110.8
87.5°	10.4	13.4	23.9	29.3	36.3	67.6	119.8	106.9	65.6	45.7	45.7
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)