

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: P946631

Luminaire Tested: **GALN-SB2B-722-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946631
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
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-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9427 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - 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

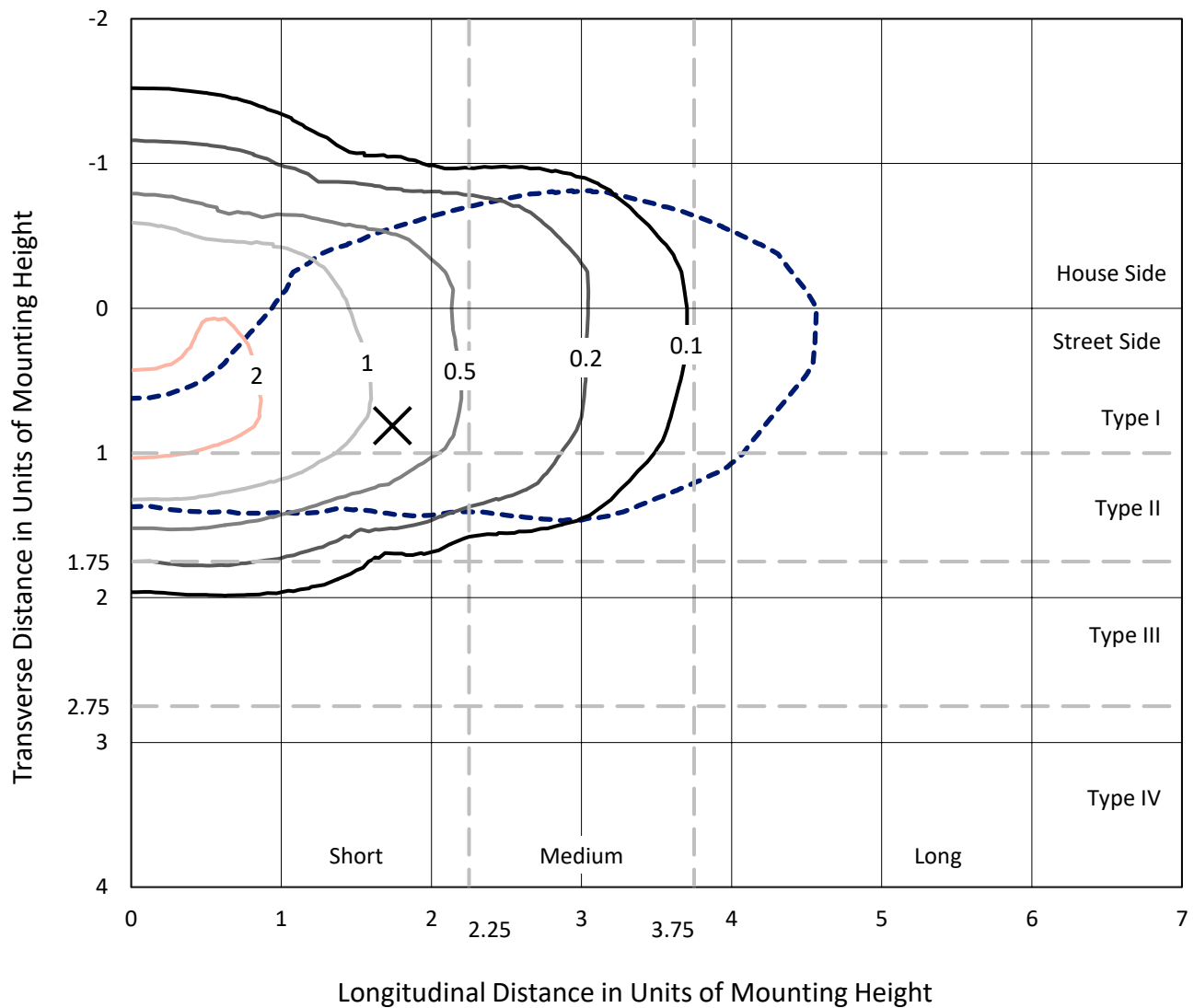


REPORT NUMBER: P946631

CATALOG NUMBER: GALN-SB2B-722-U-T2U

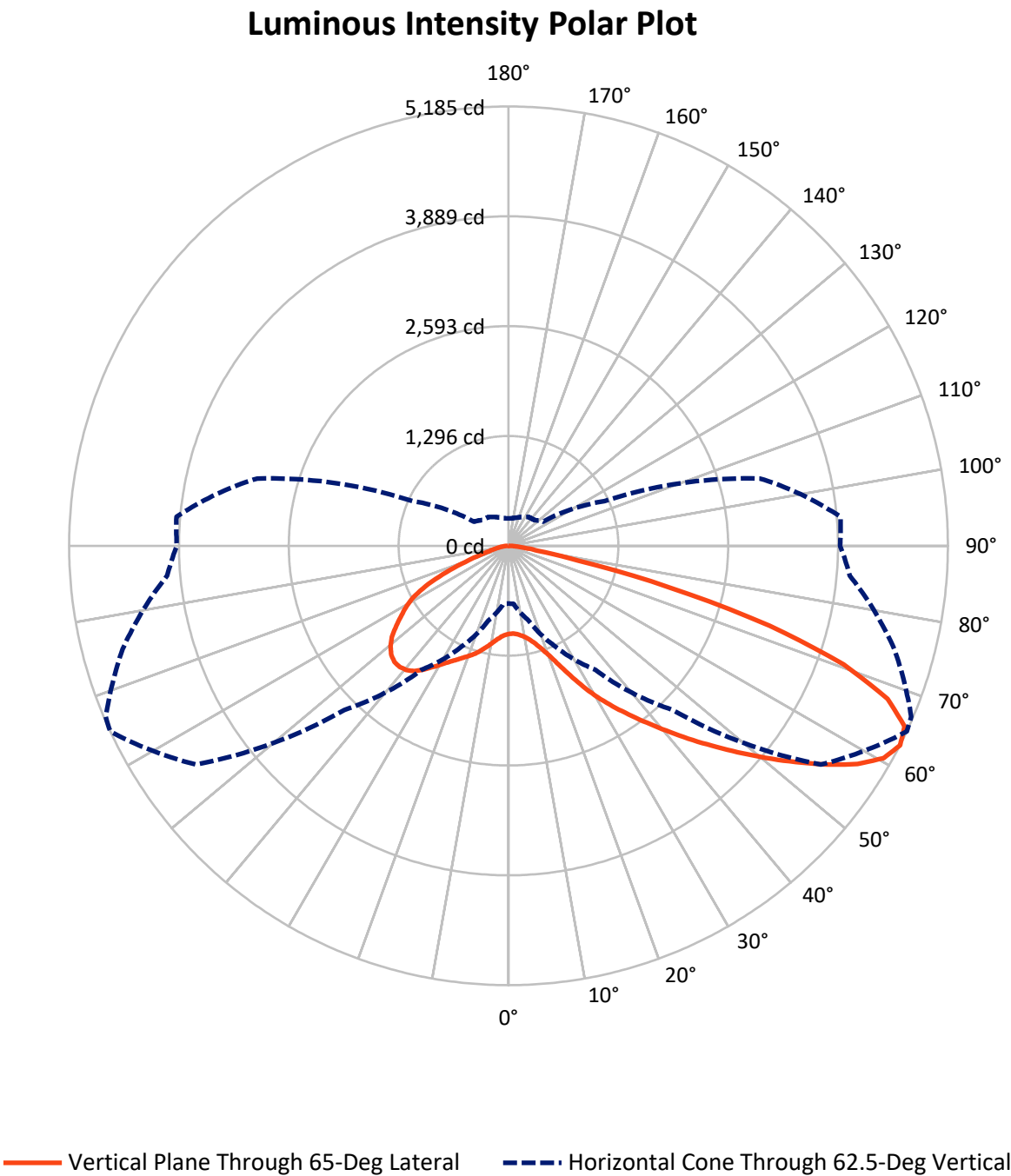
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
Type II - Short - N/A

REPORT NUMBER: P946631
CATALOG NUMBER: GALN-SB2B-722-U-T2U



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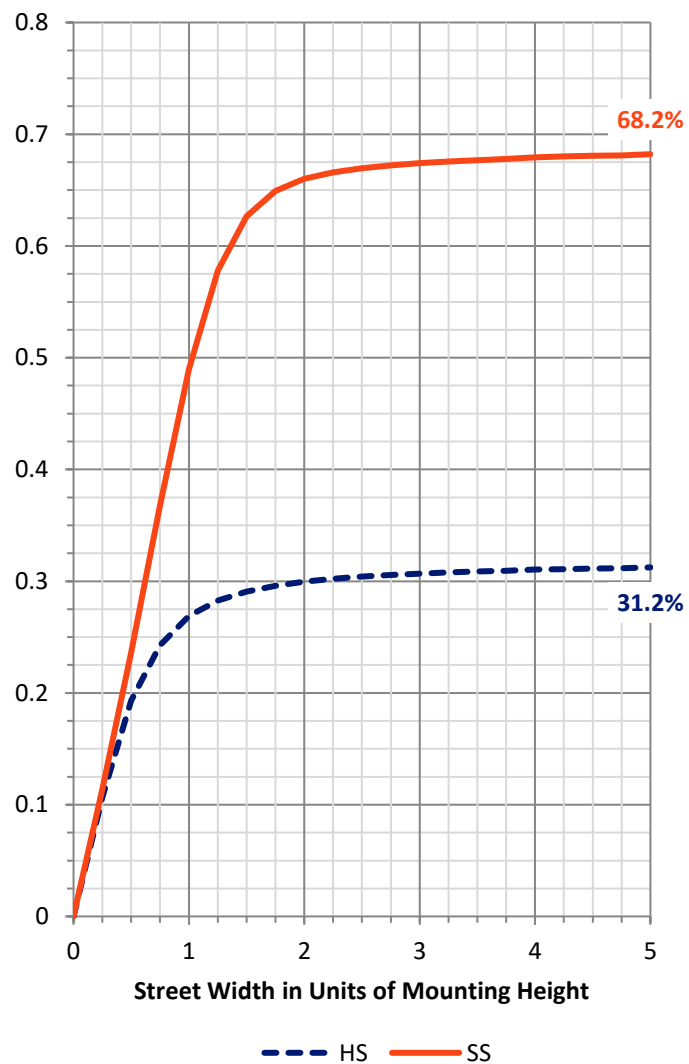
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2974.7	0.0	2974.7
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	6452.3	0.0	6452.3
	% Fixture	68.4	0.0	68.4
Total	Lumens	9427.0	0.0	9427.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	1.1
10°-20°	351.2	3.7
20°-30°	712.1	7.6
30°-40°	1232.3	13.1
40°-50°	1864.9	19.8
50°-60°	2186.4	23.2
60°-70°	1833.1	19.4
70°-80°	1012.0	10.7
80°-90°	131.5	1.4
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°	9427.0	100.0
0°-180°	9427.0	100.0

Coefficient of Utilization



REPORT NUMBER: P946631

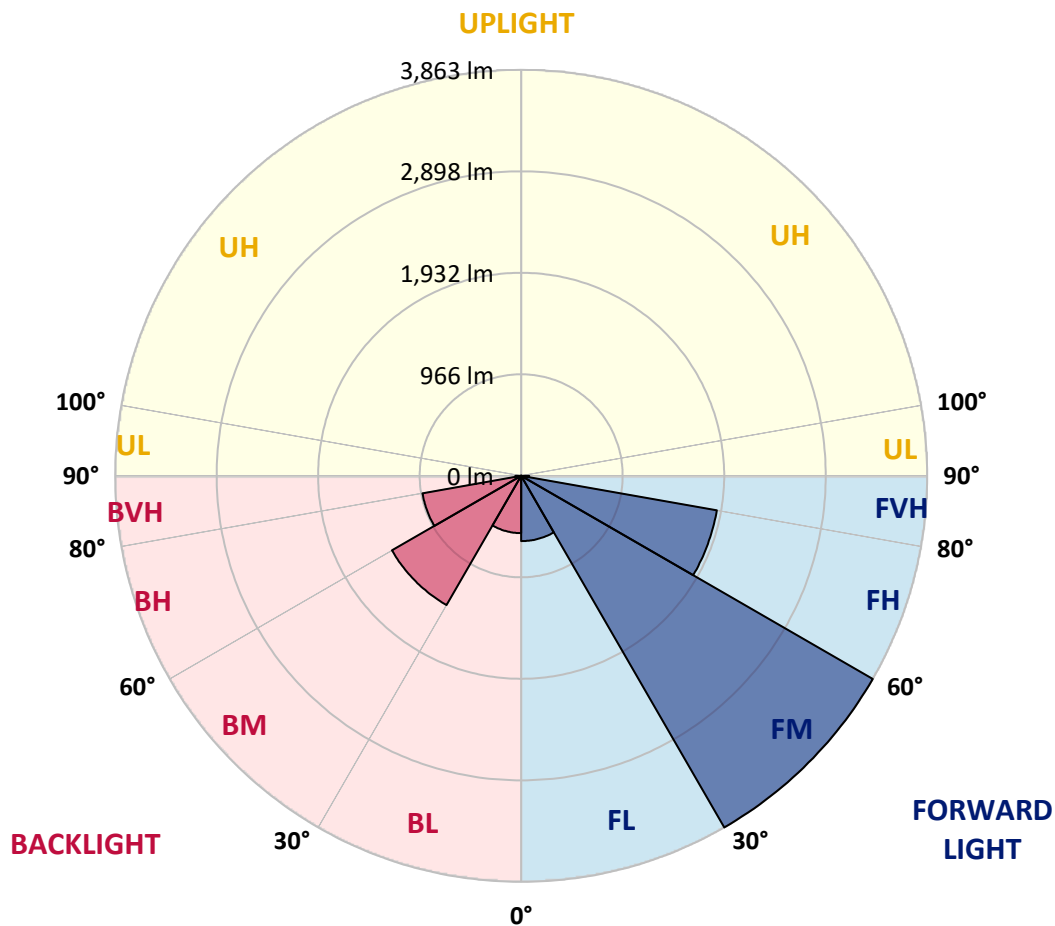
CATALOG NUMBER: GALN-SB2B-722-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	621.4	6.6			
FM	(30°-60°)	3863.5	41.0			
FH	(60°-80°)	1890.8	20.1			G2/5000
FVH	(80°-90°)	76.6	0.8			G1/100
BL	(0°-30°)	545.5	5.8	B2/1000		
BM	(30°-60°)	1420.1	15.1	B2/2500		
BH	(60°-80°)	954.3	10.1	B2/1000		G2/1000
BVH	(80°-90°)	54.8	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 II Short



REPORT NUMBER: P946631

CATALOG NUMBER: GALN-SB2B-722-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8
2.5°	1032.0	1029.0	1031.5	1031.5	1032.5	1032.0	1035.4	1036.4	1037.8	1040.8	1040.8
5°	1021.7	1021.2	1025.6	1029.5	1033.4	1036.9	1041.3	1047.6	1048.6	1052.0	1056.4
7.5°	1018.3	1015.3	1022.2	1027.1	1036.4	1044.7	1056.4	1067.2	1071.6	1073.1	1081.4
10°	1044.7	1039.8	1046.2	1049.1	1056.9	1065.2	1078.9	1096.0	1100.9	1106.8	1116.1
12.5°	1089.7	1084.3	1093.6	1098.0	1105.3	1112.7	1122.0	1138.6	1141.0	1151.8	1160.6
15°	1151.3	1144.9	1150.8	1156.2	1168.4	1175.3	1184.6	1200.7	1200.7	1209.0	1215.4
17.5°	1234.9	1226.6	1231.0	1233.0	1240.8	1251.1	1266.7	1280.9	1288.2	1285.3	1276.5
20°	1359.7	1349.4	1349.4	1339.6	1336.7	1345.0	1365.5	1385.1	1392.9	1377.7	1356.2
22.5°	1547.0	1532.3	1524.0	1490.7	1477.5	1478.5	1499.0	1523.0	1529.4	1502.5	1454.0
25°	1785.2	1762.2	1750.9	1702.0	1672.2	1646.3	1662.4	1693.2	1702.0	1668.8	1590.5
27.5°	2023.3	2024.8	2014.0	1955.4	1906.0	1858.5	1850.2	1882.5	1891.8	1854.1	1757.3
30°	2357.4	2322.7	2302.1	2231.7	2161.3	2094.7	2060.5	2073.7	2076.2	2031.2	1918.7
32.5°	2645.5	2636.7	2592.6	2531.0	2440.5	2336.4	2279.1	2258.1	2254.2	2190.1	2056.6
35°	2973.6	2968.7	2922.3	2848.9	2751.1	2606.3	2503.1	2443.0	2438.1	2348.1	2193.1
37.5°	3307.2	3307.2	3261.7	3181.5	3080.3	2899.3	2742.3	2646.9	2631.3	2513.9	2332.0
40°	3573.2	3557.1	3565.4	3531.7	3415.8	3223.6	3007.9	2869.5	2848.4	2707.6	2479.7
42.5°	3724.4	3719.0	3768.9	3806.5	3759.1	3605.5	3300.3	3110.6	3081.2	2920.8	2649.9
45°	3758.1	3752.3	3841.3	3979.2	4045.7	3982.6	3618.2	3364.4	3328.7	3143.8	2832.3
47.5°	3680.4	3668.6	3799.2	4016.8	4230.1	4341.1	3962.6	3639.8	3587.9	3361.0	3019.6
50°	3446.6	3435.3	3632.9	3922.0	4292.2	4584.7	4336.2	3931.7	3852.5	3593.8	3208.9
52.5°	2938.4	2943.8	3253.4	3650.5	4210.5	4736.3	4658.0	4239.4	4144.0	3832.0	3386.4
55°	2288.9	2300.7	2681.2	3118.4	3883.8	4713.3	4877.6	4556.3	4461.4	4056.0	3569.8
57.5°	1638.9	1690.8	2047.3	2480.1	3256.3	4348.9	4925.6	4857.6	4765.6	4300.5	3749.3
60°	1062.3	1071.6	1438.4	1874.7	2479.7	3701.4	4828.2	5086.0	5014.1	4549.9	3899.5
62.5°	680.8	687.2	910.7	1311.2	1784.7	2738.4	4500.6	5185.3	5163.3	4714.8	4043.7
65°	500.3	495.4	611.8	866.7	1202.2	1688.8	3864.3	5137.3	5180.9	4818.0	4163.1
67.5°	417.7	410.8	468.1	600.1	885.7	959.1	2859.2	4825.8	4985.2	4806.2	4250.6
70°	380.5	374.6	409.4	445.6	691.1	642.2	1441.3	4195.4	4440.9	4672.7	4236.4
72.5°	322.3	312.0	359.5	395.7	537.5	492.5	595.7	3222.6	3521.9	4244.8	4036.9
75°	249.9	243.1	283.7	348.2	404.0	384.4	376.6	1956.8	2283.5	3282.7	3531.7
77.5°	198.1	188.8	226.0	271.4	363.4	290.0	274.4	842.7	1166.5	2095.7	2642.5
80°	149.2	140.9	171.7	214.7	279.3	218.6	177.5	343.8	439.7	1061.8	1328.8
82.5°	106.1	98.8	119.8	157.5	187.8	196.1	109.1	192.7	216.7	409.4	296.9
85°	68.0	63.6	80.2	98.8	119.3	126.2	66.5	100.8	110.5	168.7	123.7
87.5°	37.2	30.3	43.0	46.0	55.3	50.4	31.8	36.7	39.6	61.1	52.3
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: P946631

CATALOG NUMBER: GALN-SB2B-722-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8	1038.8
2.5°	1042.7	1044.2	1049.1	1050.6	1054.0	1058.4	1061.3	1064.2	1064.2	1067.2	1067.2
5°	1056.9	1060.3	1070.6	1076.0	1084.8	1093.6	1099.0	1105.3	1109.2	1111.2	1112.2
7.5°	1084.3	1089.7	1104.4	1113.6	1128.8	1141.0	1149.3	1158.2	1160.1	1165.5	1163.5
10°	1121.5	1127.8	1144.5	1162.1	1180.2	1195.3	1203.1	1209.5	1212.0	1212.9	1210.5
12.5°	1164.0	1173.3	1194.8	1216.4	1235.4	1248.6	1250.6	1249.1	1242.3	1236.4	1236.4
15°	1216.4	1224.7	1248.6	1272.1	1290.7	1293.1	1280.9	1273.1	1264.8	1263.3	1263.3
17.5°	1279.0	1283.4	1305.4	1328.4	1329.8	1321.5	1303.4	1296.1	1288.2	1282.9	1283.4
20°	1351.8	1350.4	1366.0	1375.8	1365.5	1340.1	1312.7	1300.5	1292.6	1286.3	1286.8
22.5°	1438.9	1427.6	1425.7	1423.2	1395.8	1342.5	1305.4	1289.7	1277.5	1268.7	1271.6
25°	1565.6	1522.5	1492.7	1476.1	1414.4	1329.3	1281.9	1247.2	1224.2	1209.0	1214.9
27.5°	1724.0	1651.6	1576.3	1535.7	1414.4	1302.4	1225.2	1168.9	1131.3	1115.6	1123.4
30°	1875.1	1799.3	1688.3	1607.6	1411.0	1258.4	1133.7	1055.4	1011.4	995.8	1005.1
32.5°	2004.3	1921.6	1807.2	1686.4	1402.7	1187.0	1020.2	933.7	891.1	872.5	881.8
35°	2124.1	2036.1	1926.5	1772.9	1380.7	1082.3	895.5	829.5	782.0	752.2	762.0
37.5°	2246.9	2142.2	2039.5	1851.2	1341.1	960.1	799.7	743.4	687.7	647.5	658.3
40°	2380.4	2255.2	2160.3	1897.6	1276.0	843.7	725.3	674.0	614.8	572.2	580.5
42.5°	2536.4	2390.6	2294.8	1921.6	1187.0	761.0	676.9	626.5	570.8	536.0	542.9
45°	2699.3	2539.8	2417.5	1921.1	1087.7	722.4	661.2	611.4	549.7	513.5	519.4
47.5°	2869.9	2695.8	2523.7	1889.8	1001.6	727.8	652.4	578.6	510.6	475.4	480.3
50°	3041.1	2866.5	2626.4	1831.1	965.0	716.0	619.7	532.6	452.4	420.6	422.6
52.5°	3210.8	3048.0	2714.9	1747.5	927.8	672.5	577.6	472.9	428.4	406.4	406.4
55°	3381.5	3227.5	2811.3	1625.7	834.9	621.6	507.2	450.4	409.4	389.3	387.4
57.5°	3552.7	3434.8	2902.7	1503.9	718.0	559.0	468.5	423.1	390.3	373.2	370.2
60°	3730.7	3672.0	2997.1	1391.9	602.6	478.8	440.2	401.0	367.8	348.7	347.2
62.5°	3914.1	3933.2	3071.0	1247.7	496.4	429.9	414.7	374.6	342.4	324.3	323.8
65°	4099.0	4185.1	3119.4	1047.6	402.5	383.4	387.4	345.8	313.0	297.4	296.9
67.5°	4238.4	4366.5	3105.7	792.8	330.1	339.4	353.1	315.5	284.6	272.4	272.9
70°	4254.1	4345.0	2970.7	542.9	276.3	296.4	315.0	285.6	253.8	245.0	245.5
72.5°	4045.7	4051.6	2594.6	354.6	233.8	260.2	274.9	255.3	224.5	215.7	215.2
75°	3499.4	3350.7	1905.0	233.8	195.6	223.5	237.2	223.5	193.7	195.6	188.8
77.5°	2651.3	2373.0	1156.7	166.3	163.4	187.8	206.4	196.6	171.2	192.2	169.2
80°	1366.0	1283.8	516.0	124.2	129.1	150.1	169.7	157.0	135.5	129.1	117.9
82.5°	313.0	363.9	203.5	89.0	93.4	108.1	129.6	117.9	97.3	82.2	81.2
85°	109.6	119.8	90.0	55.8	54.8	67.5	88.0	78.7	66.0	52.8	55.8
87.5°	34.7	45.5	33.7	22.5	23.5	30.3	40.6	37.2	30.8	20.1	21.0
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)