

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: P945942

Luminaire Tested: **GALN-SB1D-727-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945942
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-SB1D-727-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9423 lumens
Efficiency: N/A
Efficacy: 118.4 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

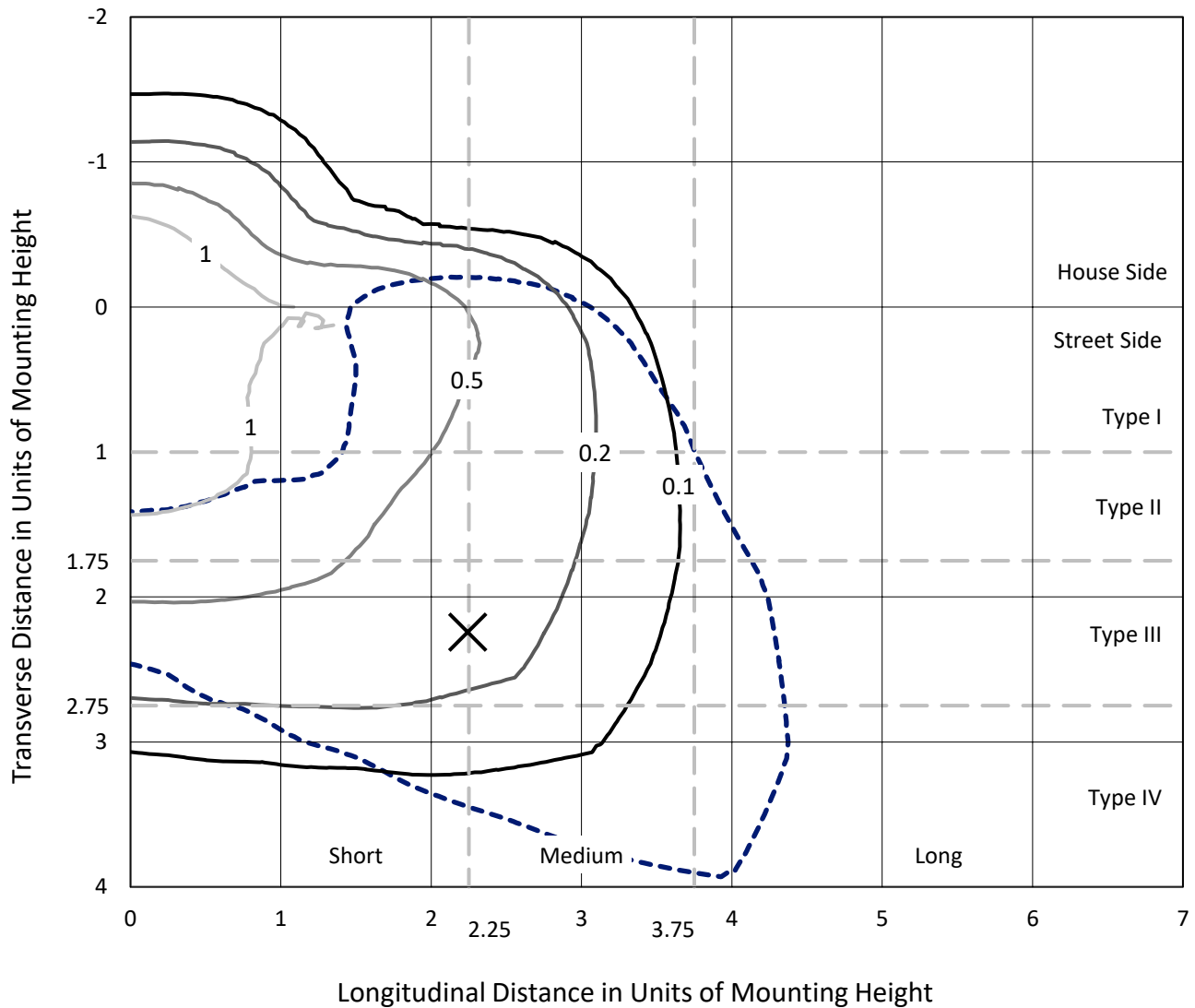


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

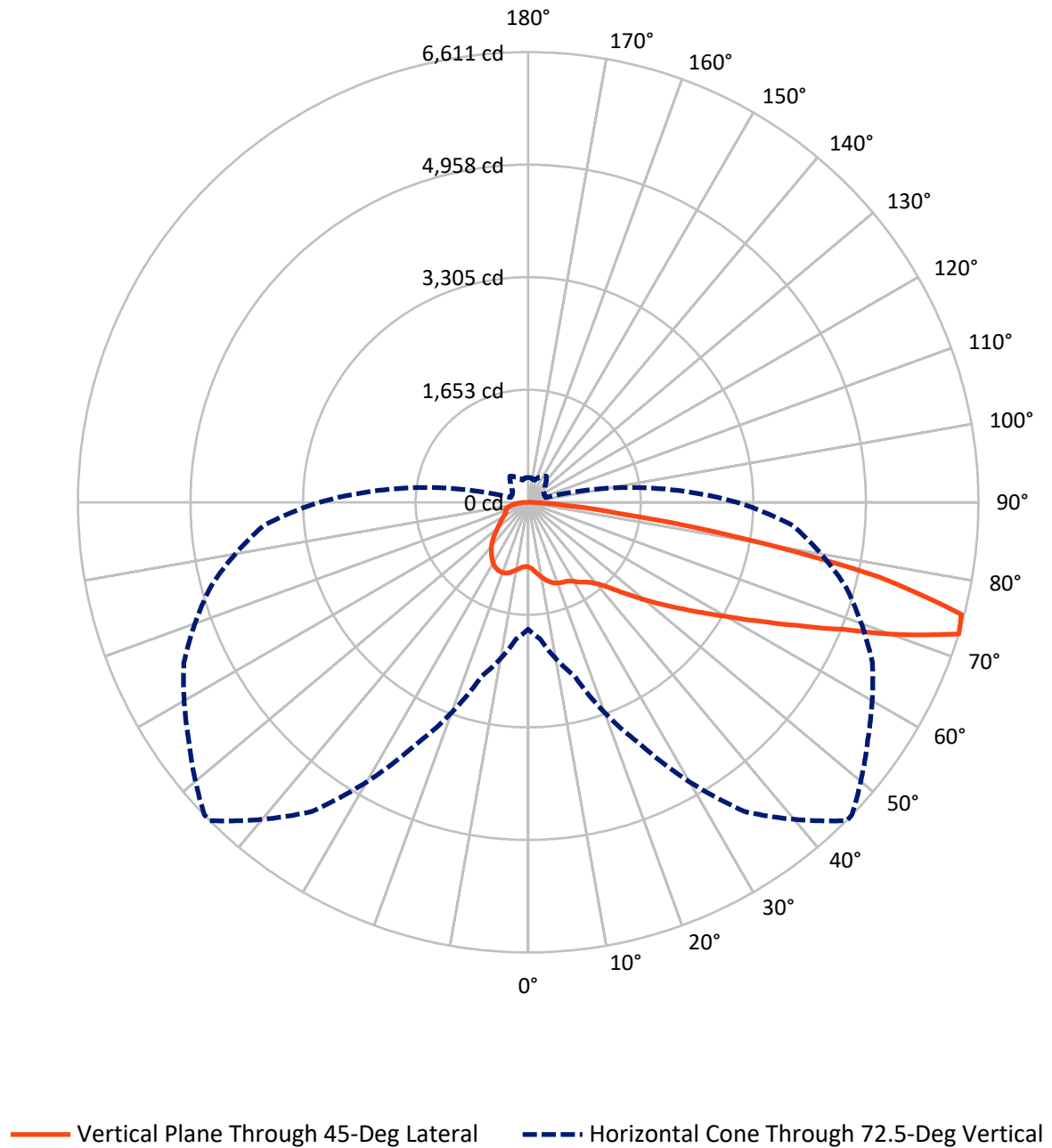


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2130.2	0.0	2130.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	7292.8	0.0	7292.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	9423.0	0.0	9423.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.8	1.0
10°-20°	322.6	3.4
20°-30°	561.2	6.0
30°-40°	804.4	8.5
40°-50°	1132.7	12.0
50°-60°	1735.0	18.4
60°-70°	2513.4	26.7
70°-80°	2007.1	21.3
80°-90°	250.0	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°	9423.0	100.0
0°-180°	9423.0	100.0

Coefficient of Utilization



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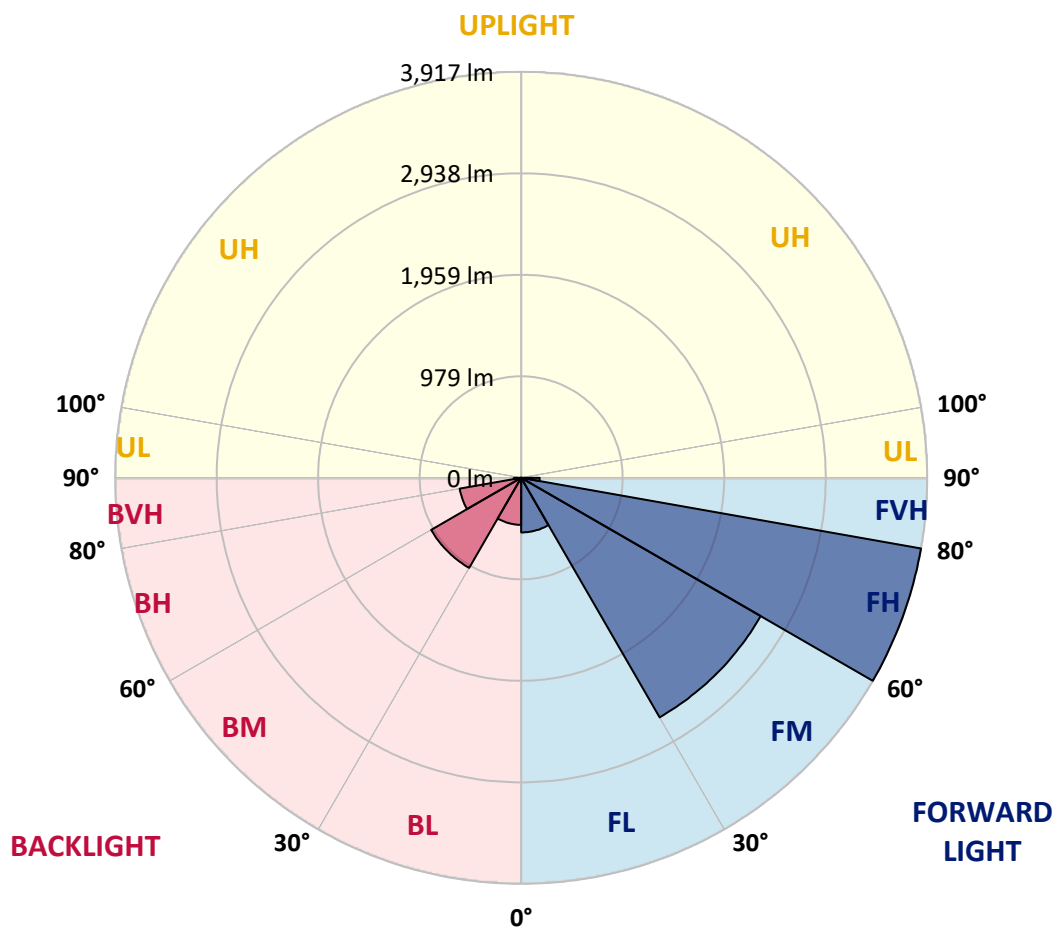
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	526.9	5.6			
FM	(30°-60°)	2669.1	28.3			
FH	(60°-80°)	3917.4	41.6			G2/5000
FVH	(80°-90°)	179.3	1.9			G2/225
BL	(0°-30°)	453.5	4.8	B1/500		
BM	(30°-60°)	1003.0	10.6	B2/2500		
BH	(60°-80°)	603.0	6.4	B2/1000		G2/1000
BVH	(80°-90°)	70.6	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°	950.6	950.6	950.6	950.6	950.6	950.6	950.6	950.6	950.6	950.6	950.6
2.5°	987.8	994.3	988.3	982.9	980.4	973.9	973.4	969.5	967.0	960.0	958.0
5°	1056.8	1065.3	1055.3	1044.4	1034.5	1018.6	1016.6	1005.2	992.3	977.4	969.0
7.5°	1134.8	1142.2	1130.8	1114.4	1097.0	1070.7	1070.2	1049.4	1029.0	1003.7	989.3
10°	1202.8	1212.7	1197.3	1175.0	1153.1	1123.3	1119.9	1096.0	1070.2	1037.5	1015.6
12.5°	1262.8	1269.8	1254.9	1227.6	1202.3	1172.5	1168.0	1141.7	1112.9	1075.7	1047.9
15°	1310.5	1319.4	1299.6	1270.3	1243.5	1214.2	1210.2	1186.4	1157.6	1118.4	1082.6
17.5°	1341.8	1349.2	1328.9	1296.1	1270.3	1246.0	1243.0	1223.1	1197.8	1158.1	1119.9
20°	1353.7	1361.6	1340.3	1307.0	1283.2	1264.3	1262.8	1248.4	1231.1	1194.8	1156.1
22.5°	1365.6	1373.0	1345.2	1310.5	1289.6	1277.7	1277.2	1267.8	1260.8	1231.1	1193.3
25°	1413.7	1415.7	1378.5	1328.4	1298.6	1288.1	1287.6	1287.2	1290.1	1266.8	1233.5
27.5°	1455.4	1454.9	1423.2	1376.0	1329.8	1308.0	1307.5	1312.5	1321.9	1302.5	1275.2
30°	1516.5	1511.0	1473.3	1424.2	1382.0	1348.2	1345.2	1340.8	1348.2	1332.8	1316.9
32.5°	1646.0	1628.7	1567.6	1480.3	1425.2	1399.3	1395.4	1367.6	1370.5	1361.1	1353.2
35°	1831.7	1808.9	1727.5	1586.5	1478.8	1442.0	1440.0	1404.8	1398.8	1390.4	1393.4
37.5°	2052.6	2024.3	1929.5	1740.4	1571.1	1491.7	1488.7	1456.9	1432.6	1423.7	1440.5
40°	2274.5	2238.7	2160.3	1928.0	1707.1	1574.6	1565.1	1517.0	1489.2	1474.3	1510.0
42.5°	2489.9	2460.1	2393.1	2138.5	1874.9	1695.7	1674.8	1592.4	1571.6	1557.7	1622.2
45°	2680.5	2653.7	2604.6	2363.3	2071.5	1860.5	1840.1	1705.6	1699.2	1699.2	1792.5
47.5°	2835.4	2829.5	2777.3	2592.7	2303.3	2048.1	2012.9	1863.0	1880.3	1907.2	2034.2
50°	3007.2	2990.8	2935.2	2818.5	2575.8	2263.1	2234.3	2056.1	2121.1	2194.6	2383.7
52.5°	3165.0	3174.0	3111.9	3053.8	2883.6	2502.8	2452.2	2283.9	2424.4	2546.0	2793.2
55°	3327.3	3327.8	3310.5	3302.5	3206.2	2767.9	2712.3	2557.9	2781.3	2932.2	3270.7
57.5°	3479.7	3480.7	3506.5	3576.5	3580.5	3073.7	3010.6	2894.5	3177.9	3331.8	3763.2
60°	3615.7	3622.7	3693.2	3857.0	3909.6	3424.1	3364.6	3292.1	3587.9	3742.8	4280.9
62.5°	3661.4	3686.7	3843.6	4076.4	4234.7	3854.0	3795.4	3752.3	4018.8	4162.8	4713.8
65°	3584.0	3642.1	3945.4	4257.6	4569.3	4364.8	4306.7	4259.6	4466.6	4602.1	5069.2
67.5°	3393.9	3468.8	3939.4	4447.7	4975.4	4979.3	4925.2	4814.5	4946.6	4998.7	5184.9
70°	2893.0	3005.2	3592.4	4518.7	5441.5	5819.7	5767.6	5482.7	5425.6	5173.4	4859.2
72.5°	1864.0	2014.9	2645.3	3934.4	5545.2	6610.5	6607.5	6085.8	5577.0	4833.9	3897.2
75°	680.1	772.4	1229.1	2469.6	4654.7	6570.3	6589.6	5982.6	5091.0	3733.9	2427.9
77.5°	247.7	271.0	401.1	949.1	2862.7	5271.7	5311.9	4782.8	3623.7	1873.9	962.0
80°	130.1	143.0	205.5	368.3	1226.6	3130.8	3193.8	2842.4	1703.1	564.4	288.4
82.5°	72.0	77.9	115.2	200.0	552.5	1338.8	1376.5	1122.8	599.1	239.3	119.1
85°	38.7	41.2	54.1	109.2	270.0	464.1	474.6	335.6	238.8	140.5	57.6
87.5°	11.4	13.9	17.9	34.7	105.7	104.2	106.7	66.5	94.3	71.0	18.9
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°	950.6	950.6	950.6	950.6	950.6	950.6	950.6	950.6	950.6	950.6	950.6
2.5°	955.1	953.6	948.1	945.6	942.7	942.2	944.6	945.1	945.6	946.1	948.1
5°	964.0	959.0	954.1	951.1	952.1	952.6	957.5	961.0	963.5	965.5	966.5
7.5°	981.4	977.4	969.0	968.5	970.0	974.4	980.9	988.8	993.3	996.8	997.8
10°	1007.2	999.7	989.8	991.3	994.3	1000.7	1014.1	1020.6	1028.0	1034.5	1033.0
12.5°	1033.5	1027.0	1015.6	1016.6	1021.6	1033.0	1045.9	1053.8	1058.8	1063.8	1065.8
15°	1067.7	1056.3	1043.9	1043.9	1052.9	1065.3	1071.2	1077.7	1080.7	1086.1	1088.1
17.5°	1103.0	1088.1	1071.7	1070.7	1081.6	1087.6	1091.1	1092.1	1093.1	1099.0	1101.0
20°	1138.2	1121.9	1098.5	1096.5	1099.0	1098.0	1097.5	1096.5	1098.0	1105.5	1108.5
22.5°	1173.0	1154.1	1121.9	1112.9	1106.0	1096.5	1096.0	1095.5	1096.5	1104.0	1108.9
25°	1213.7	1190.9	1147.7	1120.9	1097.5	1084.6	1086.1	1086.6	1087.6	1093.6	1101.5
27.5°	1257.9	1232.5	1171.5	1118.4	1076.2	1067.3	1064.8	1066.3	1069.7	1079.2	1088.6
30°	1302.0	1272.3	1193.3	1108.5	1049.4	1037.0	1029.0	1032.5	1043.4	1052.9	1063.3
32.5°	1342.3	1312.5	1210.7	1086.6	1015.1	995.8	985.3	989.8	1000.7	1004.2	1016.6
35°	1389.4	1355.7	1218.2	1051.9	977.9	948.1	934.2	927.8	933.2	929.7	940.7
37.5°	1442.0	1406.8	1217.2	1006.2	934.2	900.0	880.6	856.3	844.9	833.0	840.4
40°	1520.0	1469.3	1205.2	951.1	880.1	848.8	814.1	772.9	747.1	723.7	725.2
42.5°	1626.2	1556.2	1183.4	890.5	819.1	789.8	742.6	694.5	653.8	615.0	611.6
45°	1784.5	1669.9	1156.1	826.0	753.0	724.2	673.1	619.0	572.8	523.2	517.2
47.5°	2012.9	1822.8	1130.3	752.5	683.5	657.2	611.1	560.9	506.3	458.2	452.7
50°	2326.6	2042.2	1106.5	681.1	615.0	595.2	558.4	507.3	452.2	413.5	411.0
52.5°	2725.7	2340.5	1096.5	612.1	551.0	543.6	514.3	466.6	414.5	381.7	379.2
55°	3183.9	2697.4	1096.5	546.0	494.9	497.4	477.0	432.9	387.7	358.4	355.4
57.5°	3651.5	3058.8	1076.7	485.0	447.3	457.7	444.8	406.1	365.3	335.1	330.1
60°	4082.4	3361.6	996.3	429.4	405.1	421.4	413.0	379.7	330.1	304.8	300.8
62.5°	4413.5	3532.4	841.4	385.2	370.3	389.2	384.7	345.0	323.6	313.2	309.8
65°	4579.2	3504.6	643.3	346.0	341.0	370.3	360.9	359.4	342.5	330.6	326.6
67.5°	4477.5	3265.3	466.6	317.2	324.1	352.9	389.2	395.1	363.9	340.5	336.6
70°	4031.2	2832.4	347.5	289.9	302.8	353.4	443.8	413.5	356.9	329.6	325.1
72.5°	3066.7	2112.2	269.5	261.1	275.0	355.9	468.1	405.1	337.1	364.4	361.4
75°	1753.8	1159.6	216.4	225.9	240.3	332.6	455.7	383.2	321.7	334.6	334.6
77.5°	668.6	445.8	178.7	191.1	193.1	290.4	435.8	381.7	306.3	298.8	272.5
80°	231.8	174.2	147.9	151.9	149.4	258.1	418.0	332.1	250.7	224.4	216.9
82.5°	94.8	86.9	117.1	112.2	106.2	200.5	337.5	271.5	205.0	181.2	179.2
85°	41.2	55.1	77.4	68.0	61.6	139.0	270.5	229.8	173.2	149.4	148.9
87.5°	8.4	20.8	32.8	30.8	31.8	92.8	192.1	163.3	122.6	91.8	72.0
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)