

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: P945214

Luminaire Tested: **GALN-SB1B-727-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945214
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB1B-727-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5193 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 39.8
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

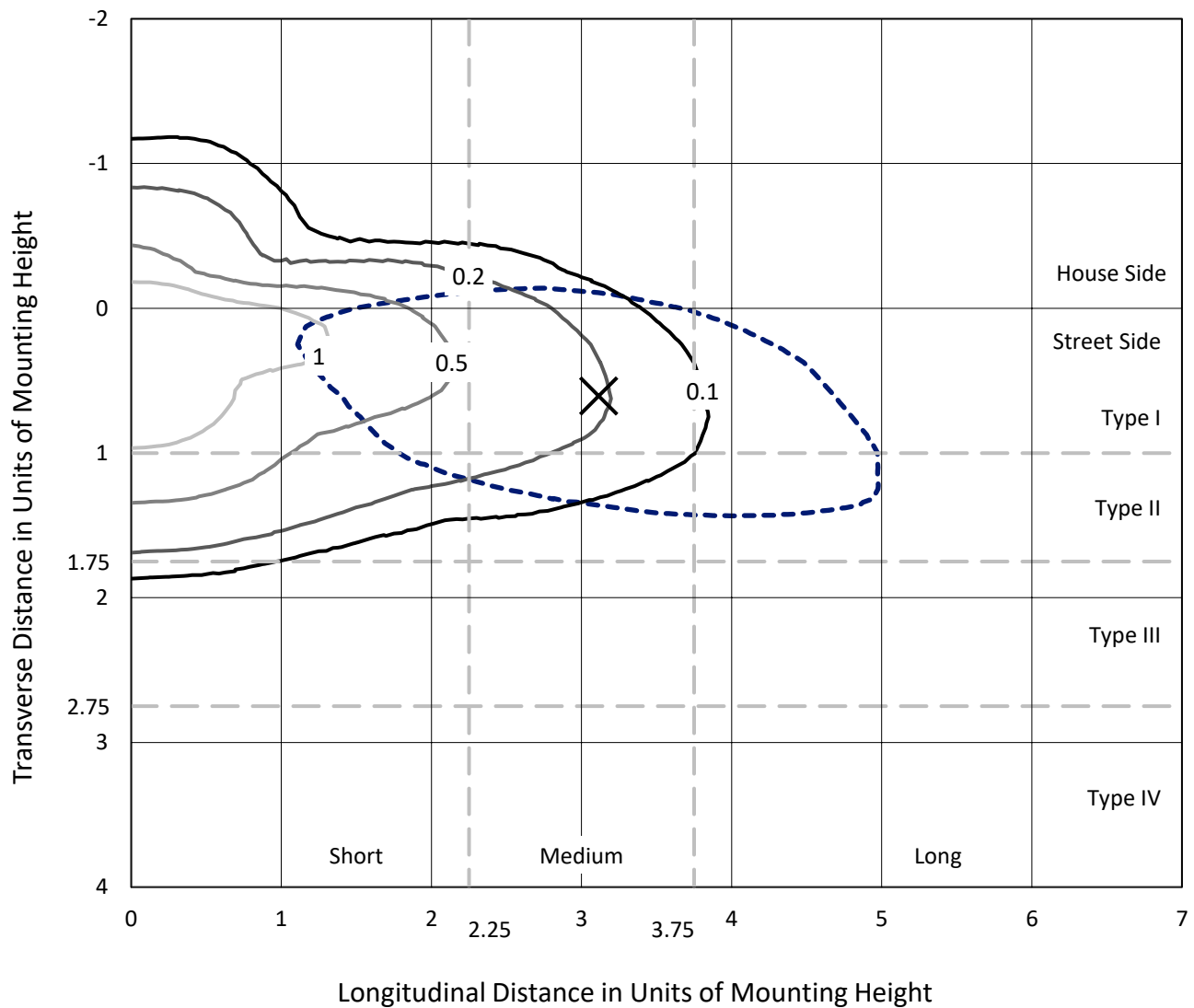


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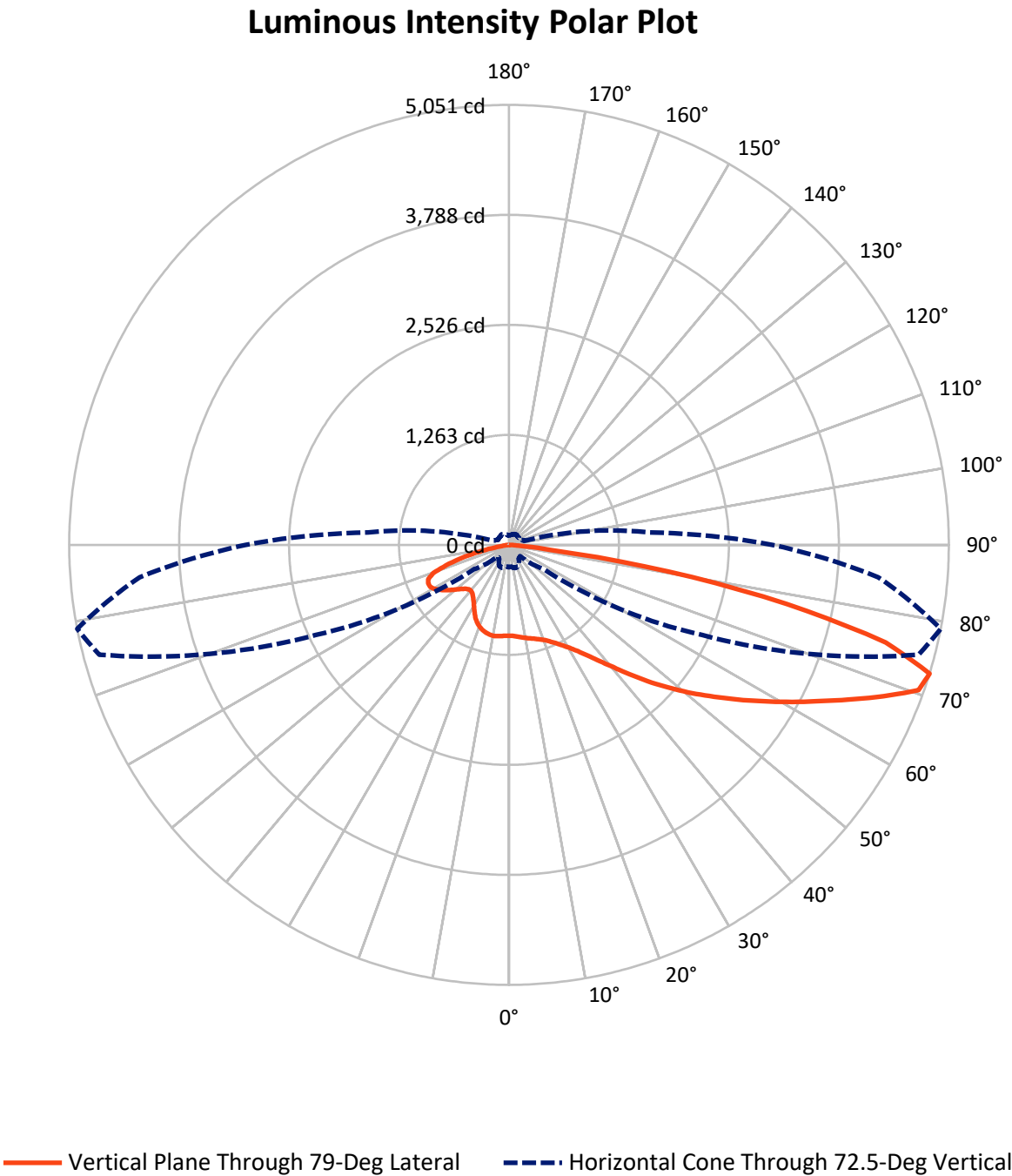
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type II - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1142.7	0.0	1142.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	4050.3	0.0	4050.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	5193.0	0.0	5193.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.6	1.8
10°-20°	247.4	4.8
20°-30°	399.2	7.7
30°-40°	599.1	11.5
40°-50°	849.9	16.4
50°-60°	1073.3	20.7
60°-70°	1090.1	21.0
70°-80°	742.9	14.3
80°-90°	96.4	1.9
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°	5193.0	100.0
0°-180°	5193.0	100.0

Coefficient of Utilization



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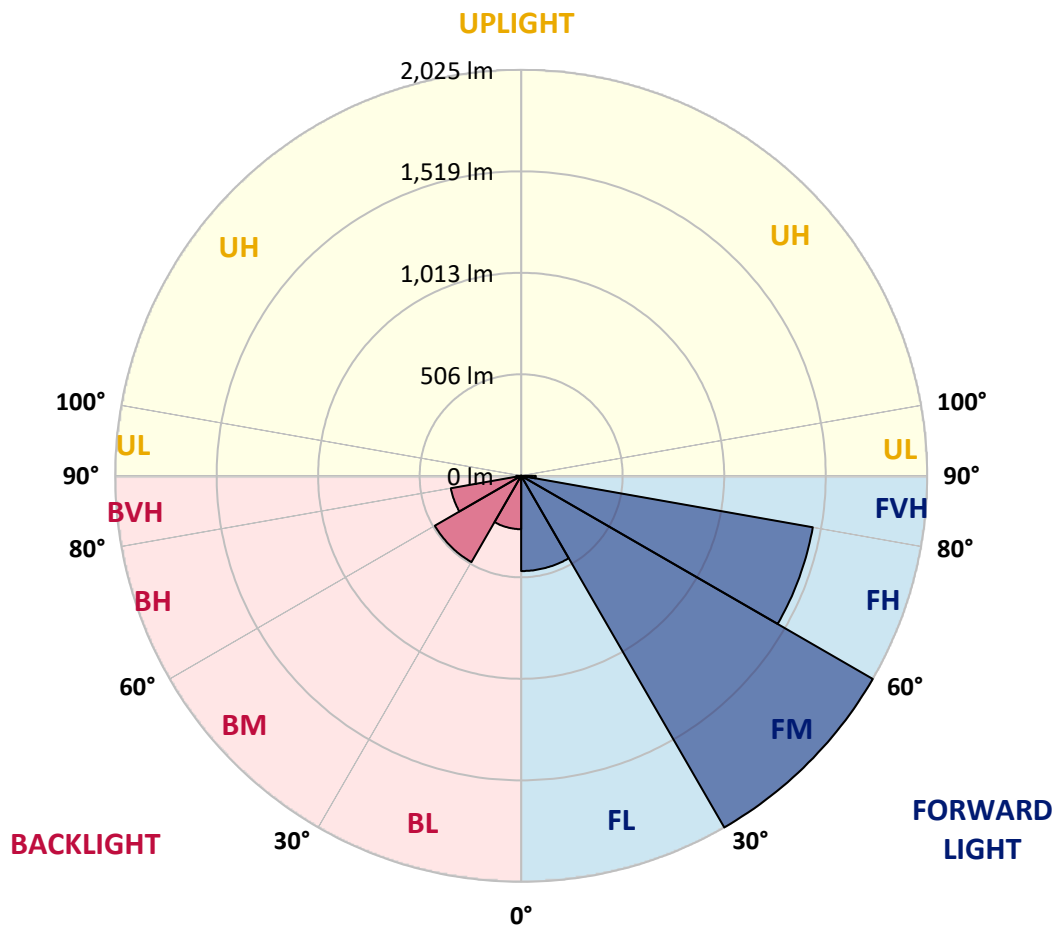
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	475.0	9.1			
FM	(30°-60°)	2025.4	39.0			
FH	(60°-80°)	1477.2	28.4			G1/1800
FVH	(80°-90°)	72.6	1.4			G1/100
BL	(0°-30°)	266.2	5.1	B1/500		
BM	(30°-60°)	497.0	9.6	B1/1000		
BH	(60°-80°)	355.8	6.9	B1/500		G1/500
BVH	(80°-90°)	23.8	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4
2.5°	1043.0	1038.1	1041.1	1040.0	1041.3	1043.0	1043.5	1044.4	1047.1	1046.8	1046.6
5°	1040.8	1035.9	1040.0	1038.6	1042.2	1046.0	1049.3	1052.3	1056.7	1058.7	1055.9
7.5°	1036.1	1032.8	1037.0	1041.1	1047.7	1053.4	1058.1	1065.0	1071.3	1072.4	1074.3
10°	1008.9	1006.5	1016.1	1026.8	1044.9	1060.6	1070.7	1078.7	1085.6	1086.7	1089.4
12.5°	980.6	977.6	988.3	1002.9	1032.3	1060.6	1082.0	1092.4	1098.5	1102.1	1106.2
15°	976.0	973.5	979.5	992.2	1016.6	1053.2	1089.7	1108.9	1114.1	1118.3	1119.9
17.5°	998.5	993.8	996.3	1000.7	1015.0	1046.3	1095.7	1127.6	1135.6	1140.0	1140.0
20°	1050.7	1044.1	1040.2	1031.5	1029.0	1047.4	1095.2	1150.1	1160.6	1166.1	1167.4
22.5°	1120.2	1115.8	1107.5	1085.3	1061.1	1060.8	1105.6	1179.0	1198.5	1203.7	1200.4
25°	1204.2	1197.6	1187.2	1157.0	1110.6	1087.5	1123.2	1215.8	1248.5	1249.8	1240.2
27.5°	1300.9	1291.0	1276.8	1236.9	1174.3	1129.2	1150.1	1258.1	1305.9	1305.3	1285.5
30°	1402.8	1392.9	1377.8	1329.5	1250.7	1185.6	1187.5	1303.7	1374.0	1371.0	1337.2
32.5°	1477.3	1469.9	1466.8	1429.5	1338.6	1252.0	1230.3	1354.2	1458.1	1455.3	1408.1
35°	1534.4	1524.8	1528.4	1509.4	1434.4	1326.5	1282.8	1414.4	1560.2	1560.0	1501.2
37.5°	1591.0	1582.5	1585.5	1572.9	1523.2	1421.0	1346.8	1488.0	1686.9	1692.9	1613.8
40°	1642.6	1633.6	1645.7	1633.9	1592.1	1521.5	1419.6	1571.2	1833.6	1845.1	1750.0
42.5°	1673.7	1666.5	1686.6	1686.9	1652.0	1606.4	1499.5	1663.0	2003.3	2029.1	1917.6
45°	1684.4	1681.9	1712.1	1718.5	1705.0	1655.6	1571.5	1763.0	2186.3	2232.4	2108.5
47.5°	1672.9	1668.2	1709.9	1733.3	1744.0	1678.6	1631.1	1871.2	2373.0	2440.6	2316.7
50°	1614.6	1605.6	1667.6	1716.8	1755.0	1693.7	1691.3	1996.2	2585.4	2659.3	2526.0
52.5°	1510.0	1503.1	1573.7	1659.1	1730.8	1701.1	1758.8	2132.7	2787.0	2882.6	2740.6
55°	1376.2	1367.1	1444.9	1556.4	1670.7	1698.7	1826.4	2285.4	3024.9	3121.8	2962.2
57.5°	1164.1	1146.0	1244.3	1376.2	1572.6	1695.7	1896.7	2437.3	3266.6	3382.8	3198.8
60°	854.8	827.9	948.5	1104.8	1380.9	1666.3	1983.8	2607.6	3556.7	3661.3	3457.0
62.5°	497.7	482.1	560.9	706.8	1040.8	1493.2	2032.7	2805.7	3841.8	3951.7	3710.8
65°	386.5	382.1	389.0	400.2	579.3	1118.0	1881.9	2998.8	4204.4	4281.3	3975.3
67.5°	353.5	350.2	353.3	332.1	293.9	622.7	1488.8	3047.7	4592.8	4639.5	4206.9
70°	314.2	310.4	320.3	302.2	231.3	283.2	962.0	2870.2	4901.8	4989.5	4382.9
72.5°	256.0	251.6	274.7	266.4	194.8	181.8	483.2	2448.6	4869.4	5051.3	4256.9
75°	196.7	194.2	221.7	228.5	158.8	143.1	231.8	1820.1	4285.2	4468.4	3668.7
77.5°	152.7	150.8	164.8	189.8	128.0	111.0	142.6	1154.5	3229.2	3261.4	2528.2
80°	114.5	109.1	122.0	147.0	99.7	81.0	96.7	673.3	2041.2	1850.3	1100.4
82.5°	71.7	68.9	79.7	98.1	70.3	55.8	62.9	371.9	818.0	481.8	212.3
85°	40.9	39.8	43.4	56.0	38.2	32.1	36.0	164.3	149.4	102.7	64.0
87.5°	16.5	15.9	19.8	25.0	14.0	11.8	12.6	39.6	33.0	30.5	21.2
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°	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4
2.5°	1045.5	1045.5	1041.6	1035.6	1028.7	1024.3	1017.2	1015.3	1007.8	1005.6	1009.2
5°	1058.1	1055.9	1044.1	1027.1	1003.7	982.3	958.7	943.8	923.0	915.5	921.0
7.5°	1074.0	1068.0	1047.7	1010.3	961.4	913.3	863.3	825.4	789.2	776.3	777.9
10°	1088.6	1080.1	1045.5	980.1	895.5	812.3	732.6	676.8	634.5	617.2	621.1
12.5°	1103.2	1087.5	1030.9	929.8	801.8	688.9	604.0	560.6	534.5	513.7	520.5
15°	1116.9	1094.9	1008.4	862.5	699.1	584.5	521.9	487.3	466.4	452.7	455.2
17.5°	1132.8	1101.2	974.6	777.1	601.3	512.3	461.2	440.3	436.2	434.6	435.7
20°	1155.1	1107.0	930.1	681.5	529.3	454.6	428.2	426.3	426.0	425.2	428.0
22.5°	1179.0	1113.9	871.3	594.7	468.1	418.6	414.0	410.1	407.6	407.4	410.4
25°	1207.3	1116.1	797.7	523.6	415.9	401.6	396.1	390.3	388.7	388.7	390.3
27.5°	1234.7	1108.6	712.0	461.8	386.5	385.9	378.8	376.9	376.6	377.4	379.6
30°	1262.2	1094.6	626.8	404.6	369.5	369.5	367.0	368.4	369.5	372.2	374.1
32.5°	1299.3	1079.8	555.7	362.3	354.6	351.9	354.3	357.1	358.2	361.8	364.8
35°	1353.7	1069.4	499.1	339.2	339.2	335.7	337.0	336.5	334.0	332.4	336.2
37.5°	1425.6	1068.8	452.4	328.5	326.3	325.8	326.1	322.5	312.9	301.3	301.6
40°	1512.2	1083.6	416.4	321.1	319.5	322.8	321.1	311.5	285.1	265.1	264.5
42.5°	1628.4	1126.0	393.4	312.0	317.0	321.1	314.5	281.3	263.4	250.0	249.4
45°	1765.2	1194.6	381.5	302.4	312.3	317.3	285.4	270.8	256.6	240.4	239.3
47.5°	1920.1	1281.2	378.8	293.4	301.9	304.9	273.0	266.4	250.2	232.7	231.3
50°	2088.7	1383.6	386.2	282.7	286.8	276.3	268.9	262.9	246.1	228.8	226.9
52.5°	2263.2	1496.5	401.0	268.1	271.7	260.1	267.3	262.1	243.6	220.3	218.7
55°	2434.6	1610.2	415.3	251.1	256.3	245.6	262.6	258.8	232.4	206.0	204.6
57.5°	2608.7	1723.4	429.3	236.0	241.5	231.6	255.2	250.0	219.8	192.8	192.3
60°	2789.7	1833.3	435.9	221.4	225.2	218.7	243.9	234.9	205.5	179.4	178.5
62.5°	2959.2	1924.7	425.2	206.8	209.3	206.6	229.1	217.0	191.2	164.3	164.0
65°	3129.3	1979.1	392.3	192.6	193.1	191.7	208.2	197.8	174.4	151.1	149.4
67.5°	3283.4	2009.6	339.8	177.2	175.8	175.3	188.7	176.9	158.2	137.9	136.2
70°	3316.0	1932.2	259.6	159.0	159.0	157.7	167.3	155.2	140.4	123.9	123.3
72.5°	3028.7	1625.3	184.3	138.4	140.6	137.9	145.9	135.7	122.2	111.2	108.0
75°	2442.3	1191.9	134.0	117.3	121.1	116.5	123.9	116.7	105.2	104.9	94.5
77.5°	1678.1	737.0	97.2	96.7	99.4	93.4	101.9	98.1	87.6	83.0	77.7
80°	716.1	293.9	70.9	74.7	74.7	69.2	79.1	80.2	71.1	68.9	68.9
82.5°	142.6	83.5	49.7	51.4	48.3	46.7	56.0	62.1	85.7	95.3	95.6
85°	42.9	30.8	29.9	28.0	24.7	25.0	33.0	62.4	76.9	44.0	37.9
87.5°	11.8	7.7	8.0	6.3	5.2	6.9	11.3	47.2	25.8	11.0	9.3
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)