

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: P939221

Luminaire Tested: **GALN-SB1D-722-U-SL4-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939221
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-722-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5870 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - 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

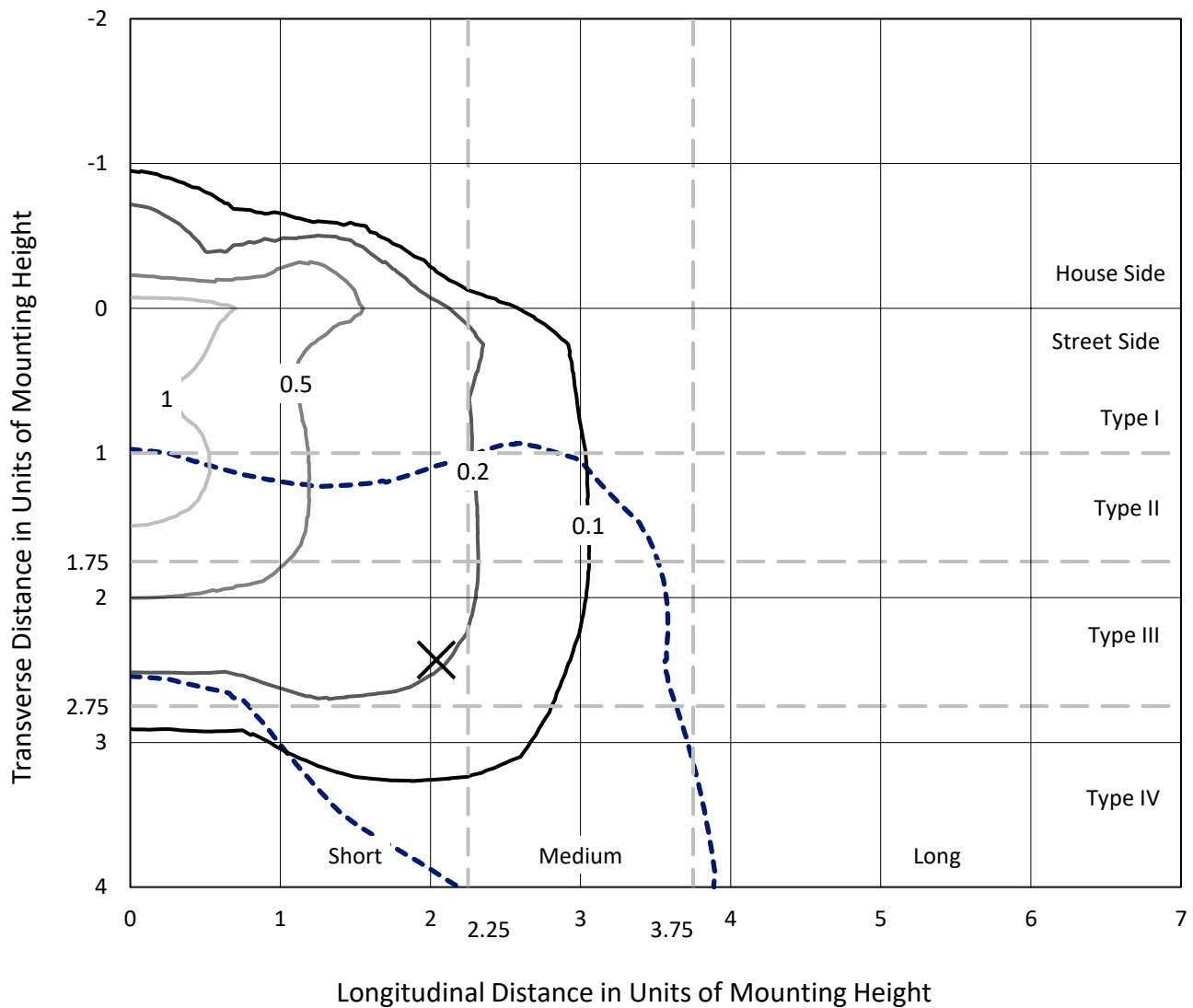


REPORT NUMBER: P939221

CATALOG NUMBER: GALN-SB1D-722-U-SL4-HSS

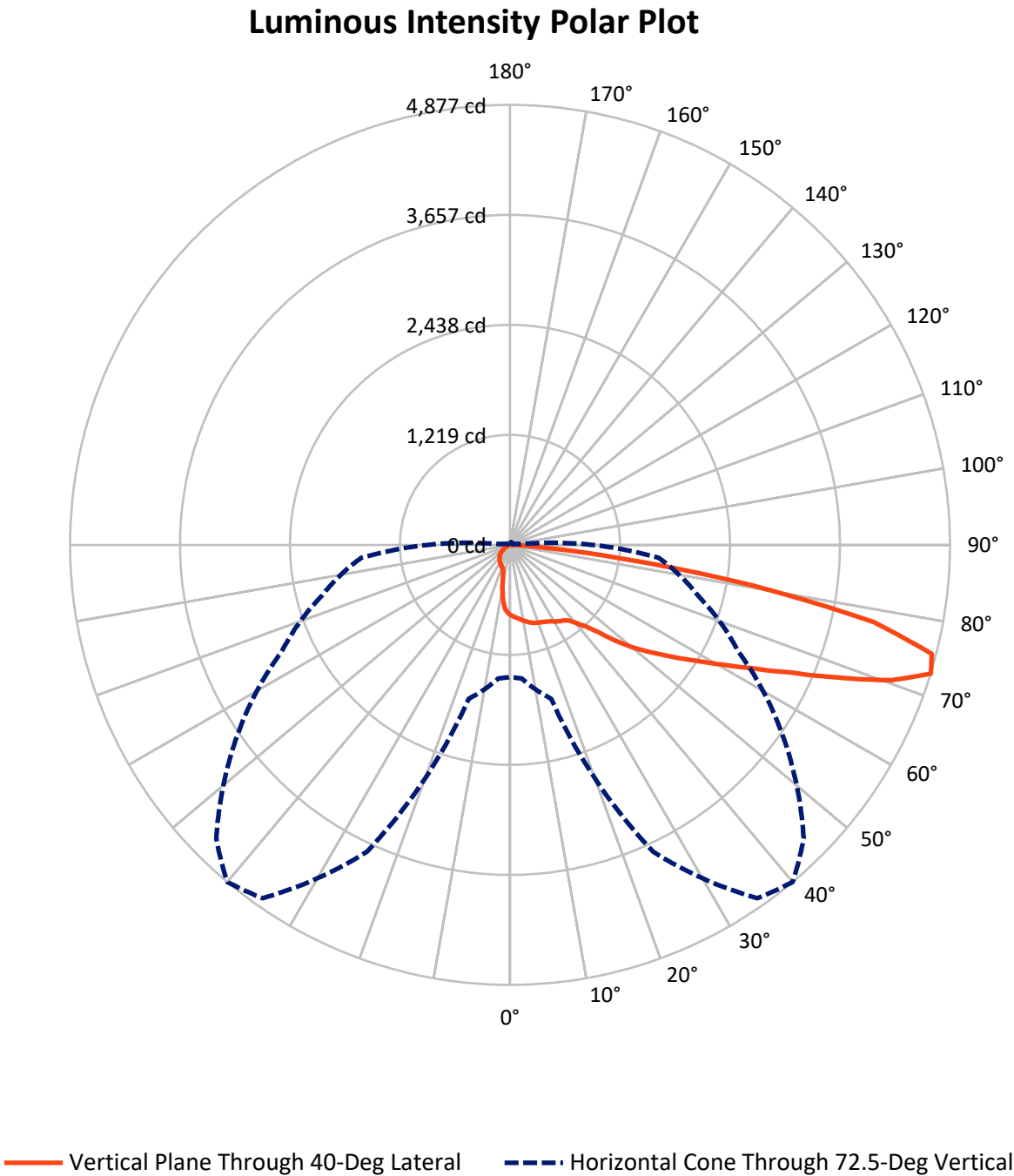
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
Type IV - Short - N/A

REPORT NUMBER: P939221
CATALOG NUMBER: GALN-SB1D-722-U-SL4-HSS



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	758.0	0.0	758.0
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	5111.9	0.0	5111.9
	% Fixture	87.1	0.0	87.1
Total	Lumens	5870.0	0.0	5870.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.0	1.2
10°-20°	192.8	3.3
20°-30°	311.9	5.3
30°-40°	460.5	7.8
40°-50°	775.0	13.2
50°-60°	1203.4	20.5
60°-70°	1505.8	25.7
70°-80°	1232.8	21.0
80°-90°	116.9	2.0
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°	5870.0	100.0
0°-180°	5870.0	100.0

Coefficient of Utilization



REPORT NUMBER: P939221

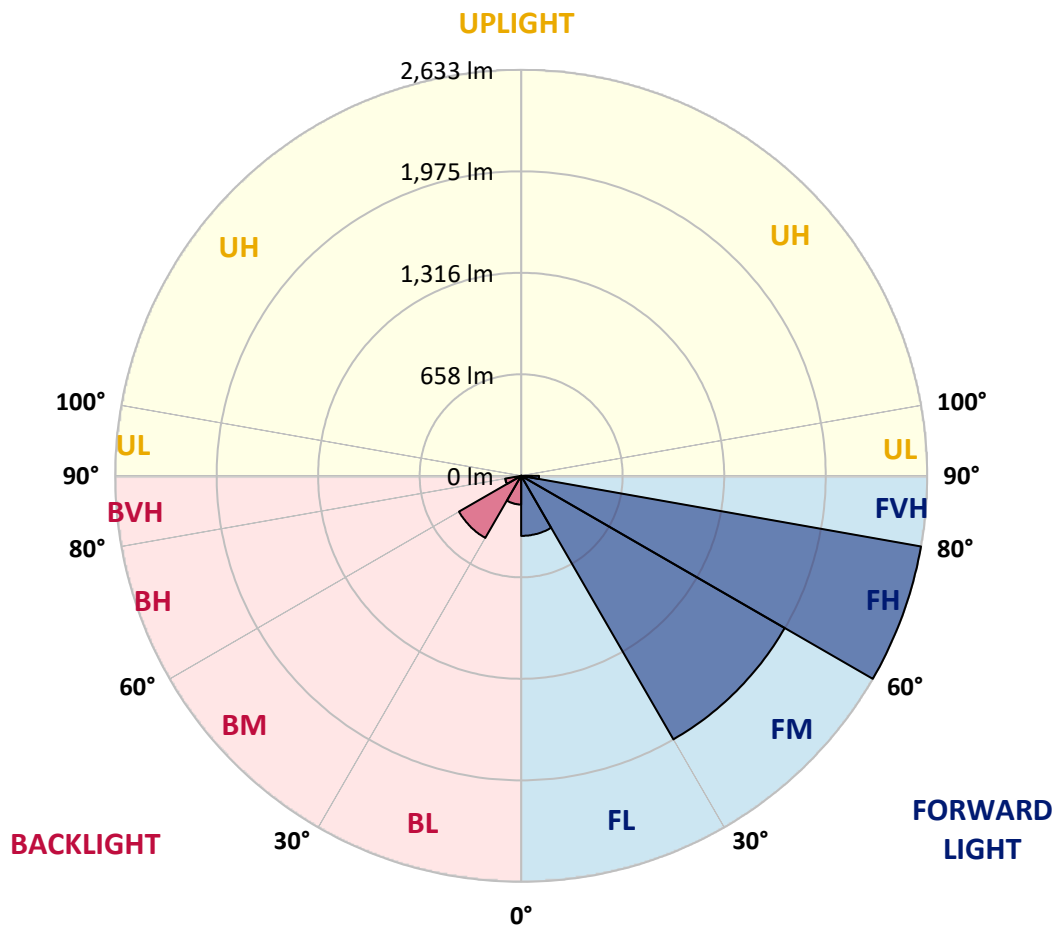
CATALOG NUMBER: GALN-SB1D-722-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	389.6	6.6			
FM	(30°-60°)	1973.4	33.6			
FH	(60°-80°)	2633.0	44.9			G2/5000
FVH	(80°-90°)	116.0	2.0			G2/225
BL	(0°-30°)	186.1	3.2	B1/500		
BM	(30°-60°)	465.5	7.9	B1/1000		
BH	(60°-80°)	105.6	1.8	B0/110		G0/110
BVH	(80°-90°)	0.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



REPORT NUMBER: P939221

CATALOG NUMBER: GALN-SB1D-722-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	777.2	777.2	777.2	777.2	777.2	777.2	777.2	777.2	777.2	777.2	777.2
2.5°	800.7	803.8	802.0	798.5	797.6	795.8	793.6	792.7	789.6	787.0	783.9
5°	823.2	826.3	824.1	819.2	817.0	814.8	811.7	809.1	802.9	797.1	790.1
7.5°	848.0	850.6	848.0	840.9	837.4	834.7	830.3	826.3	819.2	810.8	802.0
10°	875.4	877.6	873.6	864.3	858.6	854.6	850.6	846.2	839.6	830.3	819.7
12.5°	901.0	903.7	897.5	886.4	879.8	875.8	871.4	867.9	861.2	852.4	841.3
15°	924.5	928.4	917.8	905.9	898.4	895.3	890.9	888.6	884.2	878.0	867.9
17.5°	942.1	944.8	933.7	919.6	911.2	909.0	905.9	907.2	906.3	903.2	896.6
20°	957.2	958.9	944.4	927.1	917.8	918.3	917.4	921.8	923.6	923.6	923.1
22.5°	975.7	976.2	957.6	936.0	924.9	928.0	929.3	934.2	937.7	941.3	949.2
25°	1000.1	999.2	977.1	947.4	937.7	942.1	945.2	947.0	951.0	956.7	974.9
27.5°	1036.3	1033.7	1005.4	966.0	954.5	958.5	964.2	963.4	961.6	966.0	996.5
30°	1082.3	1078.8	1041.2	992.1	981.5	985.0	986.8	978.8	966.0	970.0	1015.5
32.5°	1155.2	1149.1	1096.9	1021.3	1004.9	1008.9	1006.7	990.3	971.3	975.3	1034.5
35°	1282.1	1267.1	1193.3	1082.3	1031.5	1027.0	1021.7	1005.8	982.4	978.4	1050.5
37.5°	1551.8	1525.3	1399.3	1201.2	1091.6	1062.8	1046.5	1030.6	994.3	978.4	1068.6
40°	1856.0	1829.0	1683.6	1400.2	1191.5	1142.9	1104.0	1059.7	1006.7	984.1	1096.9
42.5°	2173.4	2143.8	1994.4	1646.9	1334.3	1234.4	1161.9	1083.2	1027.0	1001.8	1134.5
45°	2528.0	2490.9	2295.5	1904.2	1541.6	1386.5	1255.2	1131.4	1062.4	1033.2	1185.7
47.5°	2902.0	2853.8	2595.6	2154.0	1764.9	1596.9	1425.8	1217.6	1114.6	1080.1	1255.2
50°	3233.6	3185.9	2905.6	2415.3	1973.6	1797.2	1620.3	1337.0	1192.8	1146.4	1348.4
52.5°	3471.9	3435.7	3187.6	2685.0	2190.7	1985.1	1796.7	1475.8	1291.9	1231.3	1458.5
55°	3631.5	3598.4	3387.5	2940.5	2443.1	2192.0	1970.5	1626.5	1411.2	1333.0	1580.1
57.5°	3728.3	3709.3	3532.0	3168.6	2693.4	2418.4	2169.5	1792.3	1551.8	1452.8	1715.8
60°	3762.8	3747.4	3621.8	3386.1	2995.8	2690.3	2403.3	1979.3	1722.5	1589.0	1855.1
62.5°	3670.9	3674.0	3686.3	3643.9	3314.5	3008.6	2683.6	2203.9	1911.7	1743.3	1986.0
65°	3238.0	3263.7	3498.9	3929.5	3736.7	3407.4	3040.4	2478.0	2128.3	1918.8	2089.9
67.5°	2681.0	2718.1	3010.8	4096.6	4186.8	3925.1	3537.4	2827.3	2386.5	2097.4	2129.2
70°	2052.3	2092.1	2446.7	4061.7	4608.1	4491.0	4151.9	3271.6	2654.0	2221.2	2028.9
72.5°	1464.7	1485.1	1764.5	3750.9	4781.0	4876.5	4604.6	3692.5	2790.6	2152.7	1654.8
75°	1029.2	1025.7	1210.9	3020.5	4511.8	4829.6	4445.9	3464.8	2525.4	1710.1	1020.4
77.5°	448.3	449.2	604.8	1834.3	3601.0	4124.9	3695.6	2170.3	1760.5	906.3	430.6
80°	116.3	119.8	221.9	730.4	2168.1	2722.5	2253.9	954.1	813.5	221.1	82.2
82.5°	41.1	43.8	102.1	229.5	799.8	1248.5	1003.6	305.1	212.2	63.2	22.1
85°	11.9	14.1	54.8	70.3	165.4	352.8	243.6	59.2	52.2	32.7	5.7
87.5°	0.0	1.8	11.1	9.7	9.7	6.6	12.4	6.6	8.4	4.0	1.8
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: P939221

CATALOG NUMBER: GALN-SB1D-722-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	777.2	777.2	777.2	777.2	777.2	777.2	777.2	777.2	777.2	777.2	777.2
2.5°	781.2	778.1	771.5	764.4	757.8	751.6	749.8	743.2	740.1	740.5	740.1
5°	785.2	779.4	766.6	751.2	735.2	717.1	702.1	680.9	662.7	660.5	659.2
7.5°	795.8	786.5	765.7	735.7	695.9	645.9	599.5	553.5	527.4	513.3	512.4
10°	812.2	799.8	768.0	710.5	626.0	536.7	466.4	408.5	378.9	365.2	362.5
12.5°	831.6	817.9	771.5	667.6	535.8	418.7	342.6	307.3	301.1	300.2	299.8
15°	859.0	844.0	775.5	609.7	438.1	318.8	283.8	284.3	289.1	291.8	291.4
17.5°	889.5	874.5	769.7	538.9	341.8	272.3	271.5	275.4	282.5	285.2	284.7
20°	920.5	906.3	749.4	455.8	276.3	259.5	263.1	267.5	274.6	278.1	278.1
22.5°	952.3	939.9	717.1	367.4	249.4	250.2	254.7	259.1	267.0	271.0	271.0
25°	986.4	975.7	674.2	294.4	237.9	240.5	246.3	251.6	260.0	264.8	264.8
27.5°	1020.8	1012.9	625.6	245.8	227.2	230.3	237.0	244.0	252.4	258.2	258.6
30°	1058.4	1054.0	586.7	227.7	217.1	219.7	227.2	235.2	244.5	251.6	252.4
32.5°	1096.9	1096.0	567.7	241.0	207.8	209.6	216.2	224.2	235.6	244.5	245.4
35°	1134.9	1136.7	556.6	278.5	204.7	199.8	204.3	211.3	225.0	236.1	237.9
37.5°	1183.5	1188.0	556.2	319.2	212.2	190.1	193.2	198.1	210.0	222.8	225.0
40°	1256.0	1279.5	584.5	354.1	225.5	181.3	182.2	183.0	189.2	199.8	203.4
42.5°	1352.4	1421.0	686.6	378.0	230.8	173.3	170.2	165.4	164.5	170.2	173.3
45°	1472.2	1592.1	866.1	391.3	225.5	164.5	156.1	143.2	138.4	142.4	142.4
47.5°	1613.3	1779.5	1078.8	394.4	216.6	153.4	138.4	121.6	117.6	118.9	118.5
50°	1750.8	1920.1	1265.8	368.7	202.0	139.3	118.9	104.8	102.1	102.6	102.6
52.5°	1872.4	1968.3	1318.8	308.2	182.6	122.0	102.1	92.4	90.6	90.6	90.2
55°	1952.8	1916.1	1176.0	235.6	158.3	104.3	87.5	82.7	81.8	81.3	80.5
57.5°	1969.6	1746.3	888.2	170.2	123.8	88.0	77.8	75.2	73.4	71.6	70.7
60°	1909.5	1463.4	565.5	118.9	92.8	75.2	69.0	67.2	63.7	60.1	58.8
62.5°	1779.5	1105.3	313.0	82.7	74.7	64.1	61.0	58.8	52.2	46.4	44.7
65°	1604.9	734.8	138.4	64.5	61.0	53.9	52.2	49.1	41.1	34.5	33.2
67.5°	1429.4	423.1	62.3	51.7	49.1	44.2	42.9	40.7	34.9	28.7	27.9
70°	1229.1	214.4	42.9	41.1	38.0	33.6	34.9	34.5	28.7	23.4	22.5
72.5°	915.2	106.5	32.3	30.9	27.4	23.9	28.7	28.3	22.5	17.7	16.8
75°	518.2	52.6	23.4	21.7	16.4	17.7	23.0	21.7	15.5	11.5	10.6
77.5°	205.6	27.0	15.5	13.3	9.7	11.9	16.8	14.6	8.0	4.9	4.4
80°	47.3	13.3	8.0	5.7	4.4	7.1	8.8	5.3	2.2	0.4	0.0
82.5°	13.3	5.7	2.7	2.2	2.2	2.7	2.2	0.9	0.0	0.0	0.0
85°	4.4	2.7	0.9	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
87.5°	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)