

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: P938881

Luminaire Tested: **GALN-SB1B-722-U-SL4-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938881
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-SB1B-722-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 450mA 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: 3248 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
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

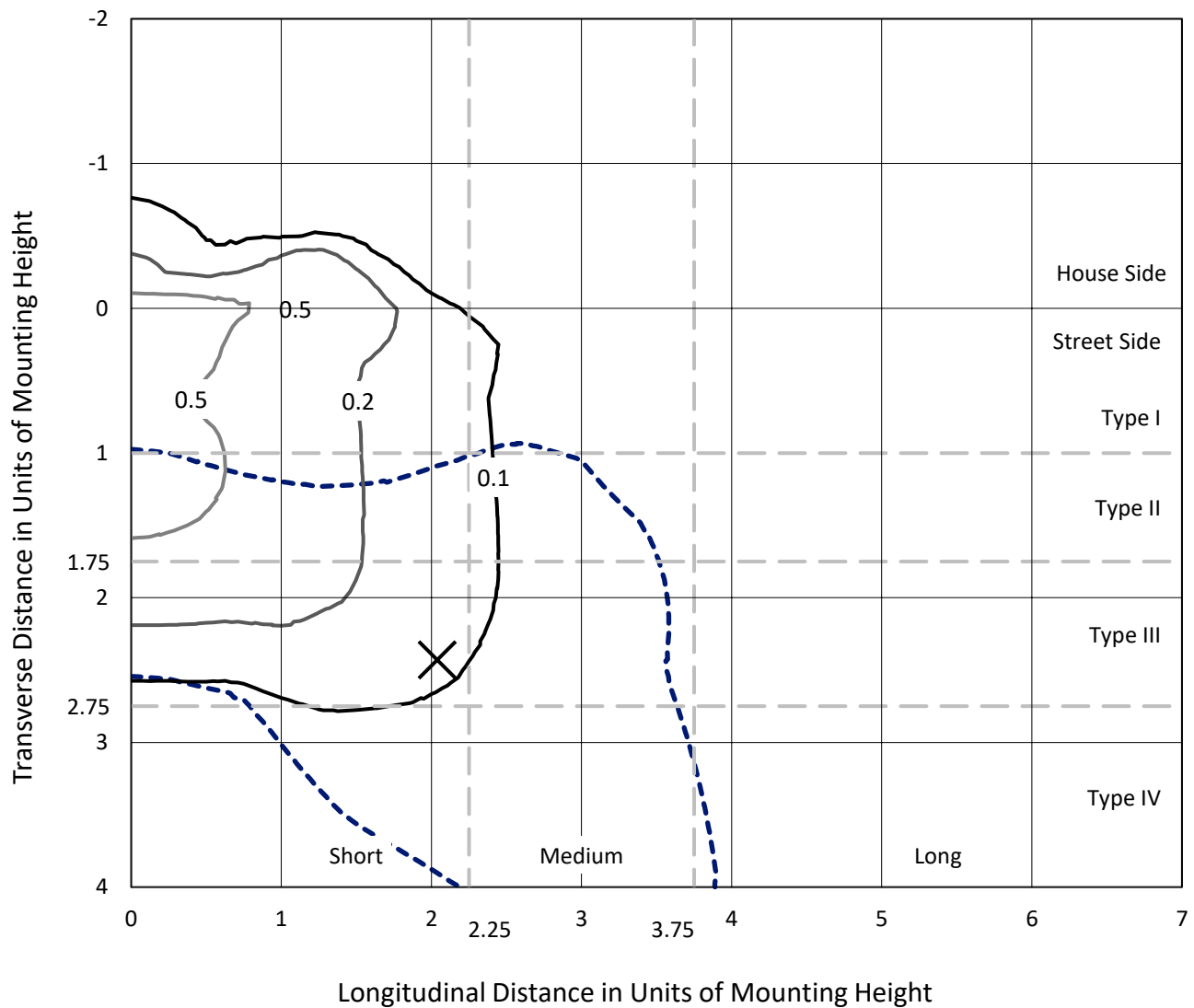


REPORT NUMBER: P938881

CATALOG NUMBER: GALN-SB1B-722-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

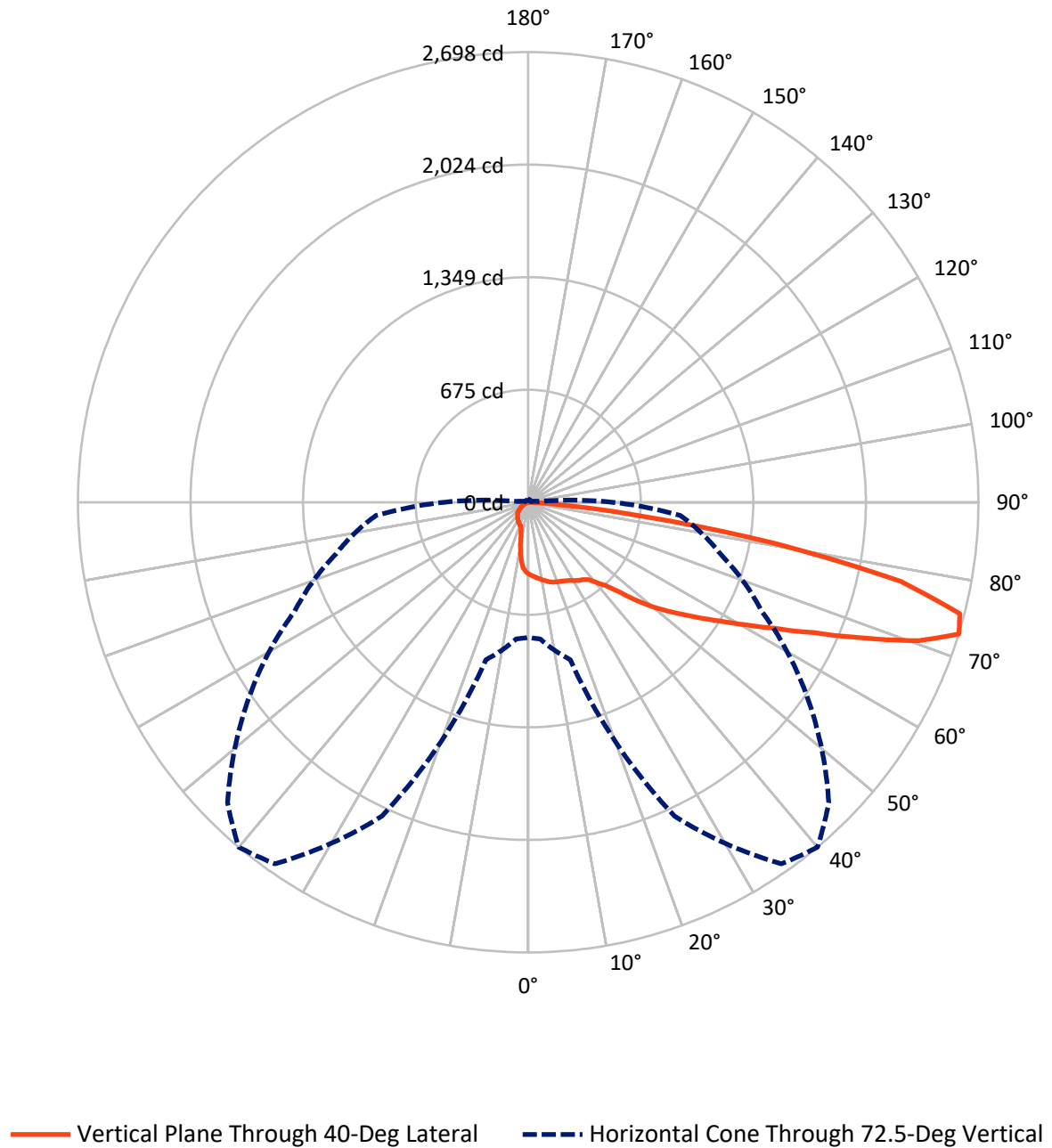


Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
Type IV - Short - N/A

REPORT NUMBER: P938881

CATALOG NUMBER: GALN-SB1B-722-U-SL4-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P938881

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	419.4	0.0	419.4
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	2828.5	0.0	2828.5
	% Fixture	87.1	0.0	87.1
Total	Lumens	3248.0	0.0	3248.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.3	1.2
10°-20°	106.7	3.3
20°-30°	172.6	5.3
30°-40°	254.8	7.8
40°-50°	428.8	13.2
50°-60°	665.9	20.5
60°-70°	833.2	25.7
70°-80°	682.1	21.0
80°-90°	64.7	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°	3248.0	100.0
0°-180°	3248.0	100.0

Coefficient of Utilization



REPORT NUMBER: P938881

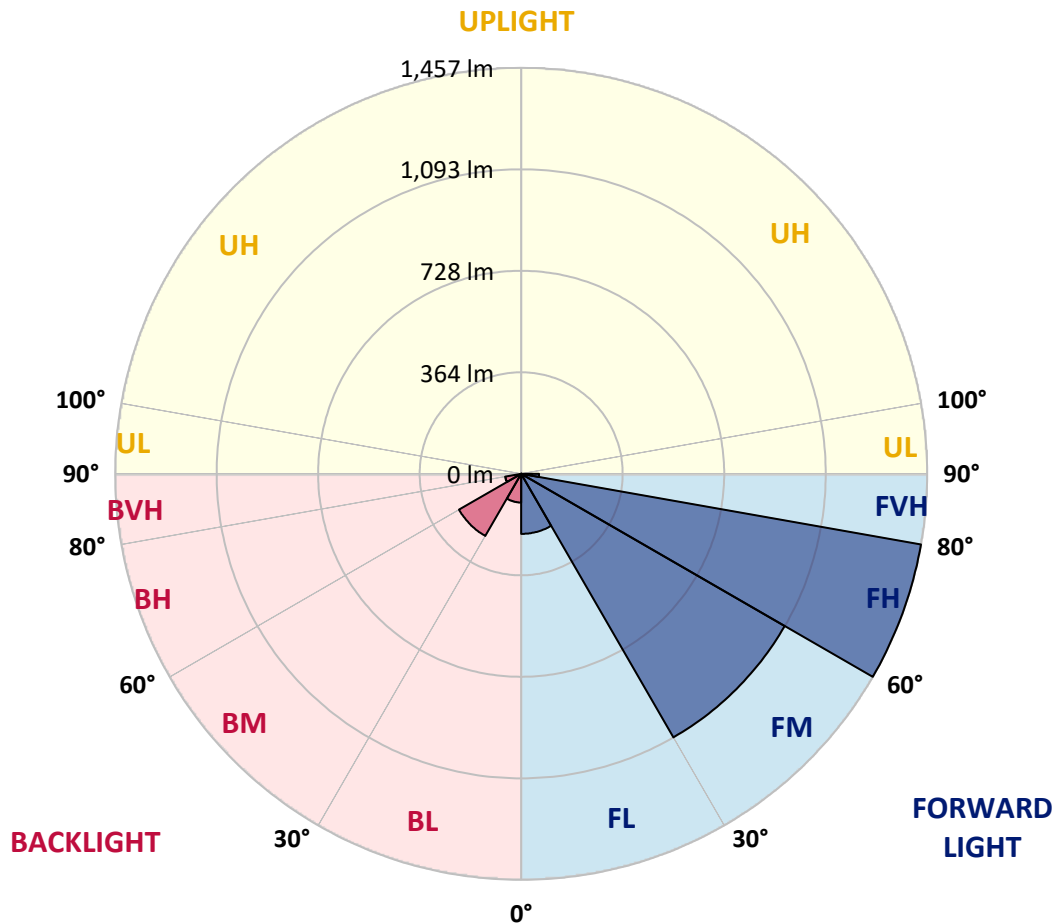
CATALOG NUMBER: GALN-SB1B-722-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	215.6	6.6			
FM	(30°-60°)	1091.9	33.6			
FH	(60°-80°)	1456.9	44.9			G1/1800
FVH	(80°-90°)	64.2	2.0			G1/100
BL	(0°-30°)	103.0	3.2	B0/110		
BM	(30°-60°)	257.6	7.9	B1/1000		
BH	(60°-80°)	58.4	1.8	B0/110		G0/110
BVH	(80°-90°)	0.5	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-G1

Type IV Short



REPORT NUMBER: P938881

CATALOG NUMBER: GALN-SB1B-722-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	430.1	430.1	430.1	430.1	430.1	430.1	430.1	430.1	430.1	430.1	430.1
2.5°	443.0	444.7	443.8	441.8	441.3	440.3	439.1	438.6	436.9	435.4	433.7
5°	455.5	457.2	456.0	453.3	452.1	450.9	449.1	447.7	444.3	441.1	437.2
7.5°	469.2	470.7	469.2	465.3	463.3	461.9	459.4	457.2	453.3	448.7	443.8
10°	484.4	485.6	483.4	478.3	475.1	472.9	470.7	468.2	464.6	459.4	453.5
12.5°	498.6	500.0	496.6	490.5	486.8	484.6	482.2	480.2	476.5	471.6	465.5
15°	511.5	513.7	507.9	501.2	497.1	495.4	492.9	491.7	489.3	485.8	480.2
17.5°	521.3	522.8	516.7	508.8	504.2	503.0	501.2	502.0	501.5	499.8	496.1
20°	529.6	530.6	522.5	513.0	507.9	508.1	507.6	510.1	511.0	511.0	510.8
22.5°	539.9	540.1	529.9	517.9	511.8	513.5	514.2	516.9	518.9	520.8	525.2
25°	553.4	552.9	540.6	524.2	518.9	521.3	523.0	524.0	526.2	529.4	539.4
27.5°	573.4	571.9	556.3	534.5	528.2	530.4	533.5	533.1	532.1	534.5	551.4
30°	598.9	596.9	576.1	549.0	543.1	545.0	546.0	541.6	534.5	536.7	561.9
32.5°	639.2	635.8	606.9	565.1	556.0	558.2	557.0	548.0	537.5	539.7	572.4
35°	709.4	701.1	660.3	598.9	570.7	568.3	565.3	556.5	543.6	541.4	581.2
37.5°	858.7	844.0	774.3	664.7	604.0	588.1	579.0	570.2	550.2	541.4	591.3
40°	1027.0	1012.0	931.6	774.7	659.3	632.4	610.8	586.4	557.0	544.5	606.9
42.5°	1202.6	1186.2	1103.5	911.3	738.3	683.0	642.9	599.3	568.3	554.3	627.7
45°	1398.8	1378.3	1270.1	1053.6	853.0	767.2	694.5	626.0	587.8	571.7	656.1
47.5°	1605.8	1579.1	1436.2	1191.8	976.6	883.6	788.9	673.7	616.7	597.6	694.5
50°	1789.2	1762.8	1607.7	1336.4	1092.0	994.4	896.6	739.8	660.0	634.3	746.1
52.5°	1921.1	1901.0	1763.8	1485.6	1212.1	1098.4	994.2	816.6	714.8	681.3	807.0
55°	2009.4	1991.1	1874.4	1627.0	1351.8	1212.9	1090.3	900.0	780.9	737.6	874.3
57.5°	2063.0	2052.5	1954.4	1753.3	1490.3	1338.1	1200.4	991.7	858.7	803.9	949.4
60°	2082.1	2073.5	2004.0	1873.6	1657.6	1488.6	1329.8	1095.2	953.1	879.2	1026.5
62.5°	2031.2	2032.9	2039.7	2016.2	1834.0	1664.7	1484.9	1219.5	1057.8	964.6	1098.9
65°	1791.7	1805.9	1936.0	2174.3	2067.6	1885.4	1682.3	1371.2	1177.7	1061.7	1156.4
67.5°	1483.4	1504.0	1665.9	2266.8	2316.7	2171.8	1957.3	1564.4	1320.5	1160.5	1178.1
70°	1135.6	1157.6	1353.8	2247.4	2549.8	2485.0	2297.3	1810.3	1468.5	1229.0	1122.6
72.5°	810.5	821.7	976.3	2075.5	2645.4	2698.3	2547.8	2043.2	1544.1	1191.1	915.7
75°	569.5	567.5	670.0	1671.3	2496.5	2672.4	2460.0	1917.2	1397.3	946.2	564.6
77.5°	248.1	248.5	334.7	1015.0	1992.5	2282.4	2044.9	1200.9	974.1	501.5	238.3
80°	64.3	66.3	122.8	404.1	1199.7	1506.4	1247.1	527.9	450.1	122.3	45.5
82.5°	22.8	24.2	56.5	127.0	442.5	690.8	555.3	168.8	117.4	35.0	12.2
85°	6.6	7.8	30.3	38.9	91.5	195.2	134.8	32.8	28.9	18.1	3.2
87.5°	0.0	1.0	6.1	5.4	5.4	3.7	6.8	3.7	4.6	2.2	1.0
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: P938881

CATALOG NUMBER: GALN-SB1B-722-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	430.1	430.1	430.1	430.1	430.1	430.1	430.1	430.1	430.1	430.1	430.1
2.5°	432.3	430.6	426.9	423.0	419.3	415.9	414.9	411.2	409.5	409.8	409.5
5°	434.5	431.3	424.2	415.6	406.8	396.8	388.5	376.7	366.7	365.5	364.7
7.5°	440.3	435.2	423.7	407.1	385.0	357.4	331.7	306.3	291.8	284.0	283.5
10°	449.4	442.5	424.9	393.1	346.4	297.0	258.1	226.0	209.6	202.1	200.6
12.5°	460.2	452.6	426.9	369.4	296.5	231.7	189.6	170.0	166.6	166.1	165.9
15°	475.3	467.0	429.1	337.3	242.4	176.4	157.1	157.3	160.0	161.5	161.2
17.5°	492.2	483.9	425.9	298.2	189.1	150.7	150.2	152.4	156.3	157.8	157.5
20°	509.3	501.5	414.6	252.2	152.9	143.6	145.6	148.0	151.9	153.9	153.9
22.5°	526.9	520.1	396.8	203.3	138.0	138.5	140.9	143.4	147.8	150.0	150.0
25°	545.8	539.9	373.1	162.9	131.6	133.1	136.3	139.2	143.8	146.5	146.5
27.5°	564.9	560.4	346.2	136.0	125.7	127.5	131.1	135.0	139.7	142.9	143.1
30°	585.6	583.2	324.6	126.0	120.1	121.6	125.7	130.1	135.3	139.2	139.7
32.5°	606.9	606.4	314.1	133.3	115.0	116.0	119.6	124.0	130.4	135.3	135.8
35°	628.0	628.9	308.0	154.1	113.3	110.6	113.0	116.9	124.5	130.6	131.6
37.5°	654.9	657.3	307.7	176.6	117.4	105.2	106.9	109.6	116.2	123.3	124.5
40°	695.0	708.0	323.4	195.9	124.8	100.3	100.8	101.3	104.7	110.6	112.5
42.5°	748.3	786.2	379.9	209.2	127.7	95.9	94.2	91.5	91.0	94.2	95.9
45°	814.6	880.9	479.2	216.5	124.8	91.0	86.4	79.3	76.6	78.8	78.8
47.5°	892.7	984.6	596.9	218.2	119.9	84.9	76.6	67.3	65.1	65.8	65.6
50°	968.7	1062.4	700.4	204.0	111.8	77.1	65.8	58.0	56.5	56.8	56.8
52.5°	1036.0	1089.1	729.7	170.5	101.0	67.5	56.5	51.1	50.1	50.1	49.9
55°	1080.5	1060.2	650.7	130.4	87.6	57.7	48.4	45.7	45.3	45.0	44.5
57.5°	1089.8	966.3	491.5	94.2	68.5	48.7	43.1	41.6	40.6	39.6	39.1
60°	1056.6	809.7	312.9	65.8	51.4	41.6	38.2	37.2	35.2	33.3	32.5
62.5°	984.6	611.6	173.2	45.7	41.3	35.5	33.8	32.5	28.9	25.7	24.7
65°	888.0	406.6	76.6	35.7	33.8	29.8	28.9	27.2	22.8	19.1	18.3
67.5°	790.9	234.1	34.5	28.6	27.2	24.5	23.7	22.5	19.3	15.9	15.4
70°	680.1	118.6	23.7	22.8	21.0	18.6	19.3	19.1	15.9	13.0	12.5
72.5°	506.4	59.0	17.9	17.1	15.2	13.2	15.9	15.7	12.5	9.8	9.3
75°	286.7	29.1	13.0	12.0	9.1	9.8	12.7	12.0	8.6	6.4	5.9
77.5°	113.8	14.9	8.6	7.3	5.4	6.6	9.3	8.1	4.4	2.7	2.4
80°	26.2	7.3	4.4	3.2	2.4	3.9	4.9	2.9	1.2	0.2	0.0
82.5°	7.3	3.2	1.5	1.2	1.2	1.5	1.2	0.5	0.0	0.0	0.0
85°	2.4	1.5	0.5	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
87.5°	1.0	0.5	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)