

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: P450200

Luminaire Tested: **GALN-SA1A-727-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450200
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3183 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

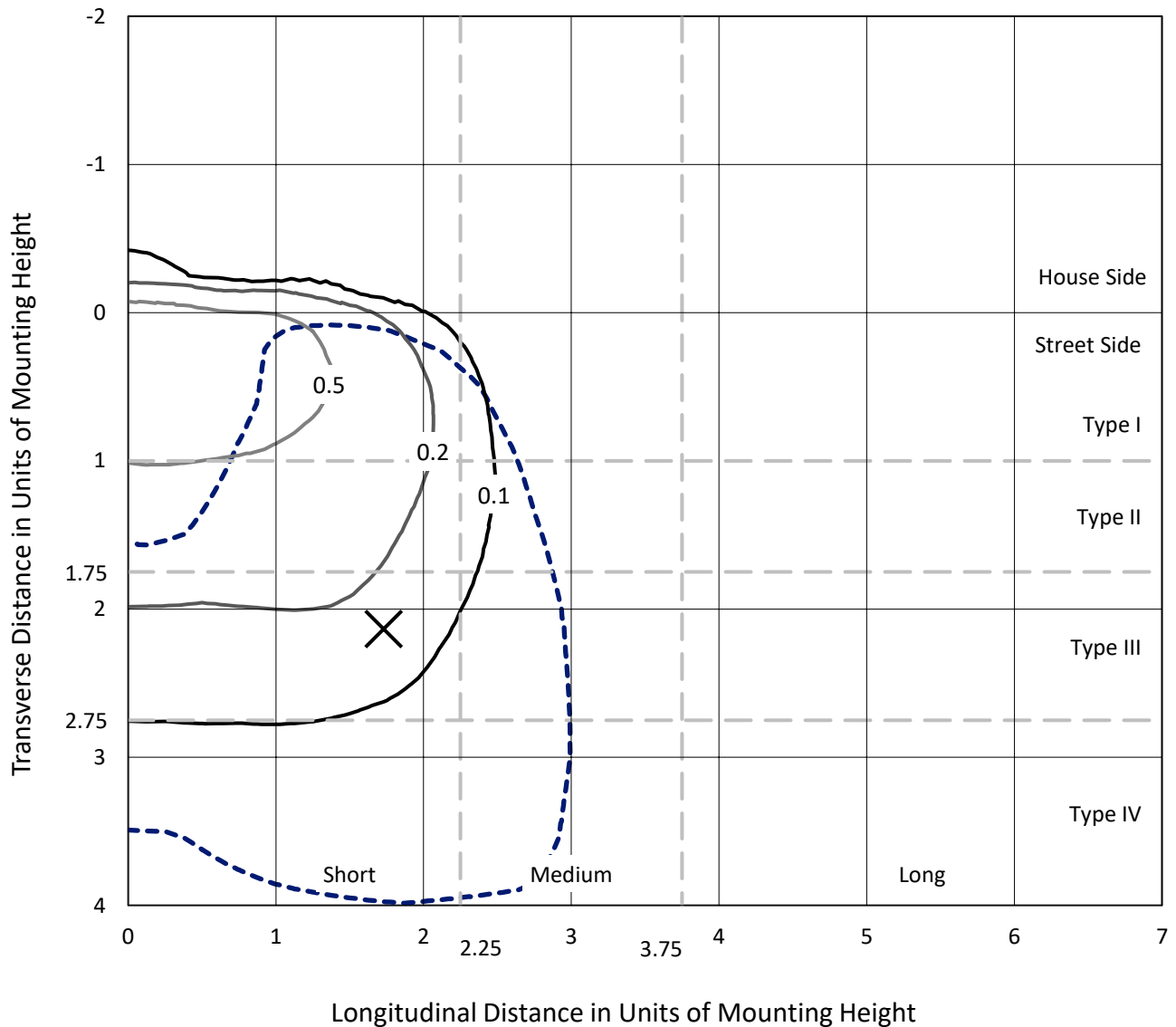
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

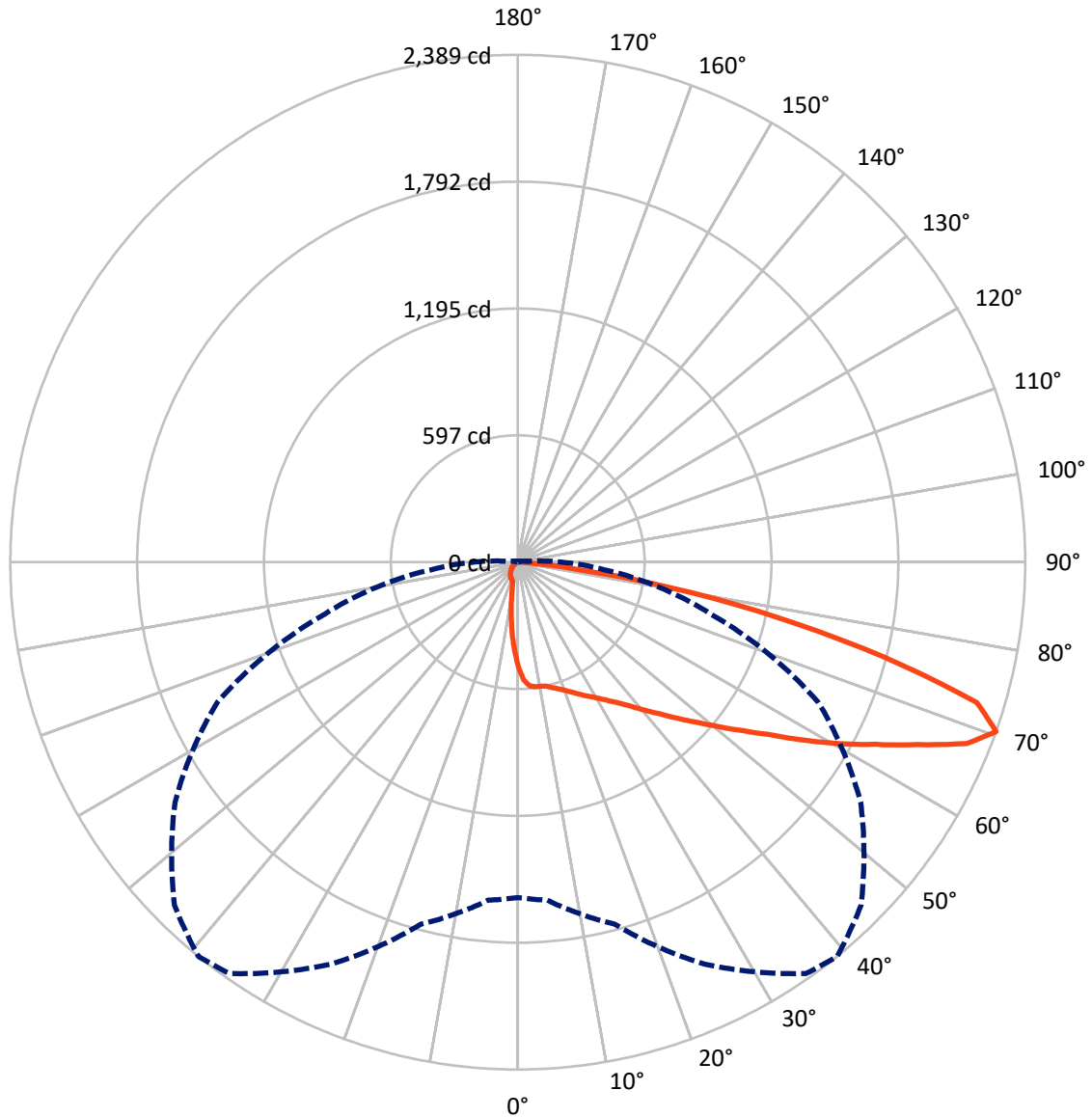
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	207.5	0.0	207.5
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	2975.5	0.0	2975.5
	% Fixture	93.5	0.0	93.5
Total	Lumens	3183.0	0.0	3183.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.4	1.3
10°-20°	110.1	3.5
20°-30°	184.4	5.8
30°-40°	286.0	9.0
40°-50°	453.2	14.2
50°-60°	664.4	20.9
60°-70°	851.6	26.8
70°-80°	535.1	16.8
80°-90°	55.7	1.8
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°	3183.0	100.0
0°-180°	3183.0	100.0



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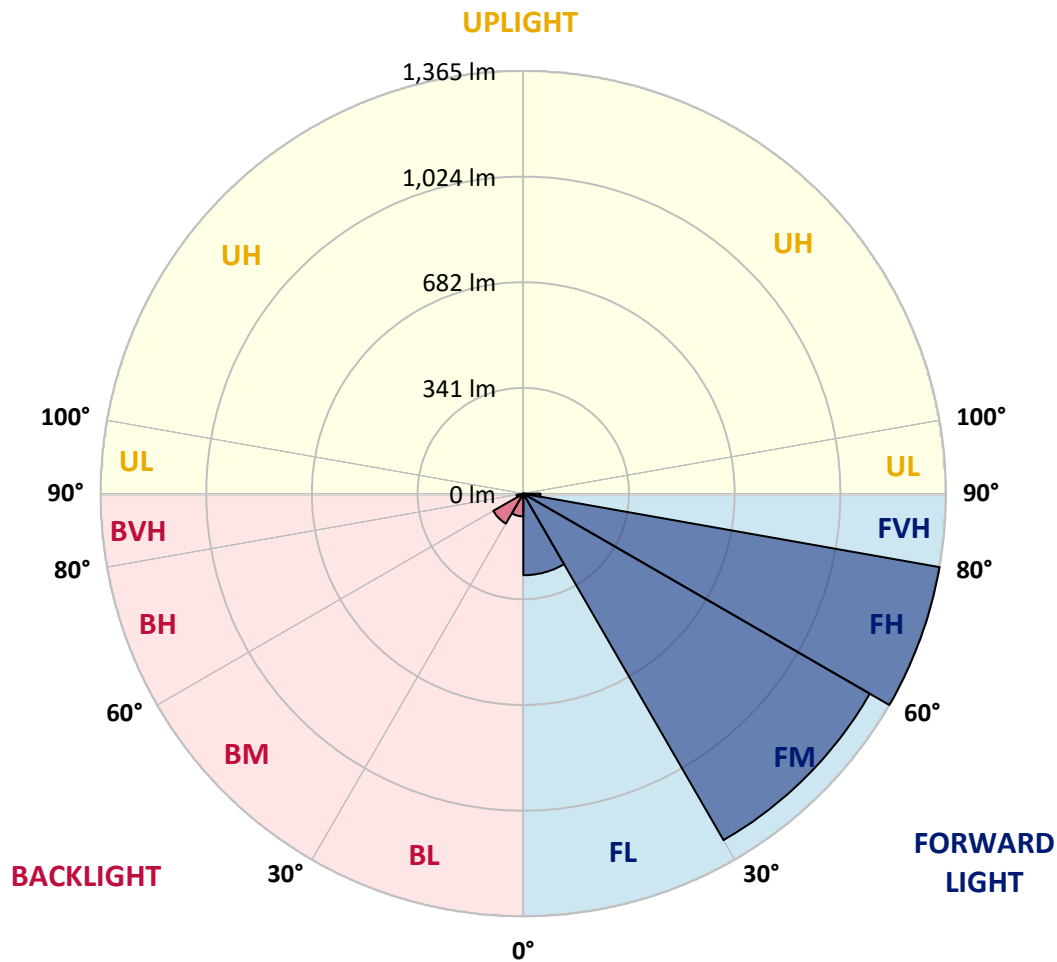
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	263.4	8.3			
FM (30°-60°)	1292.0	40.6			
FH (60°-80°)	1364.8	42.9			G1/1800
FVH (80°-90°)	55.3	1.7			G1/100
BL (0°-30°)	73.5	2.3	B0/110		
BM (30°-60°)	111.7	3.5	B0/220		
BH (60°-80°)	21.9	0.7	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7
2.5°	573.9	571.9	569.4	566.4	557.8	556.3	551.2	540.3	527.2	516.5	501.8
5°	601.0	602.1	600.2	594.8	588.6	585.0	578.6	561.7	544.8	523.2	499.0
7.5°	607.2	609.4	607.0	601.9	595.9	592.1	586.9	572.4	552.7	528.1	494.9
10°	606.6	609.2	607.7	603.0	598.0	594.4	588.8	577.3	561.5	535.6	496.2
12.5°	605.5	609.0	608.7	606.4	602.3	599.5	596.1	585.9	571.1	546.5	503.3
15°	602.5	606.8	610.7	612.6	612.8	612.8	608.5	597.6	583.5	560.8	512.5
17.5°	603.8	608.7	618.4	623.9	627.8	627.3	622.9	611.1	595.5	575.6	522.1
20°	611.7	618.4	631.8	643.0	646.8	645.5	639.5	625.8	608.1	588.2	531.5
22.5°	631.2	637.2	654.1	667.1	669.9	666.5	657.9	639.3	623.3	601.9	542.9
25°	660.3	667.3	683.0	692.8	692.8	690.9	678.9	657.1	640.4	620.9	557.6
27.5°	695.6	701.6	717.0	725.7	720.6	715.0	703.1	676.8	660.7	644.9	575.4
30°	731.3	735.1	751.4	755.3	749.9	742.8	730.0	703.7	689.6	677.4	601.0
32.5°	765.1	773.4	786.9	786.1	778.8	775.4	763.6	735.6	727.7	726.4	637.0
35°	798.9	805.3	817.3	820.3	813.9	813.2	804.7	783.9	784.1	792.5	693.0
37.5°	828.0	833.8	847.9	854.5	855.8	859.0	855.6	841.9	861.3	884.2	767.2
40°	852.4	860.5	878.5	890.0	903.3	915.0	915.7	918.7	957.8	997.2	864.1
42.5°	871.4	882.7	908.8	930.2	960.6	975.6	987.5	1004.0	1069.9	1128.7	978.3
45°	896.2	909.3	941.8	975.3	1022.8	1047.4	1064.1	1108.2	1201.6	1281.9	1095.6
47.5°	937.3	944.1	977.3	1026.3	1088.7	1123.8	1156.3	1223.0	1343.0	1414.9	1193.1
50°	990.1	994.6	1019.6	1087.6	1168.5	1214.7	1273.9	1352.4	1489.8	1525.3	1248.3
52.5°	1048.5	1050.0	1068.8	1155.2	1257.9	1316.1	1382.4	1479.3	1609.3	1604.0	1284.8
55°	1116.3	1114.2	1130.2	1228.6	1363.8	1430.3	1507.5	1609.1	1713.1	1659.8	1305.8
57.5°	1193.9	1188.2	1203.8	1325.9	1499.4	1579.0	1657.4	1721.2	1793.5	1706.6	1315.9
60°	1275.2	1263.7	1282.3	1435.2	1659.2	1734.7	1799.9	1817.0	1878.2	1743.9	1298.5
62.5°	1340.0	1340.2	1374.9	1551.6	1823.4	1889.5	1924.2	1939.6	1951.1	1735.7	1207.4
65°	1441.2	1444.6	1500.0	1713.1	2013.6	2070.9	2094.6	2044.6	1954.3	1634.8	1070.5
67.5°	1545.6	1556.5	1657.9	1935.5	2233.2	2279.4	2248.9	2064.9	1867.1	1404.4	811.7
70°	1579.6	1597.6	1764.6	2088.7	2365.0	2389.0	2285.4	1970.2	1560.8	939.0	408.5
72.5°	1447.4	1476.5	1703.2	2032.8	2280.9	2260.2	2044.8	1652.3	992.2	356.6	124.7
75°	1020.7	1033.5	1415.5	1686.3	1834.6	1775.7	1555.4	1065.2	408.1	100.1	42.8
77.5°	527.0	520.8	841.9	1118.9	1308.4	1247.4	1018.6	551.4	154.6	41.7	26.5
80°	272.5	277.0	364.3	586.3	798.7	734.9	543.1	255.6	82.3	23.1	20.3
82.5°	152.7	143.3	209.4	256.0	373.5	292.8	208.3	181.0	35.9	13.9	19.3
85°	27.8	29.1	114.9	138.4	129.6	82.3	67.2	120.8	10.5	7.7	13.5
87.5°	0.4	0.4	22.2	39.8	25.2	11.6	21.2	17.3	2.1	3.0	2.4
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°	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7
2.5°	494.3	486.2	471.0	456.0	437.0	421.4	410.9	400.0	388.9	389.7	392.3
5°	485.7	471.6	441.7	410.0	379.7	352.3	325.3	301.2	291.3	282.3	282.8
7.5°	477.2	457.3	413.5	363.8	317.8	271.2	237.4	209.6	194.9	183.7	180.5
10°	473.3	447.0	387.6	319.3	254.1	203.2	159.8	137.1	119.6	114.0	115.5
12.5°	475.1	441.9	364.3	279.1	201.5	141.6	111.2	99.7	95.8	95.2	94.8
15°	478.3	438.3	341.4	234.6	148.0	105.2	93.5	91.3	90.9	90.5	90.7
17.5°	482.5	435.1	317.0	192.9	113.6	92.0	88.6	87.5	87.3	87.3	87.3
20°	486.8	431.4	289.8	155.7	94.8	86.8	84.7	84.1	83.8	83.8	83.6
22.5°	491.7	428.2	262.2	122.3	87.3	83.2	81.3	80.9	80.6	80.4	80.4
25°	498.8	424.1	232.9	100.1	82.6	79.8	77.9	77.4	77.2	76.4	76.6
27.5°	508.2	421.2	202.8	86.4	78.3	75.5	74.2	73.6	73.2	72.5	72.7
30°	521.0	418.6	170.7	78.9	73.4	71.0	69.7	69.3	68.9	68.2	68.2
32.5°	543.3	419.7	136.9	72.9	68.9	66.1	64.8	64.4	64.0	63.3	63.3
35°	576.7	425.9	109.5	67.8	63.5	60.7	59.5	59.5	58.8	58.0	57.8
37.5°	631.2	441.7	87.9	62.9	58.4	55.8	54.3	53.9	53.3	52.0	51.8
40°	695.6	466.3	74.0	58.0	53.7	51.1	49.8	48.6	46.8	45.6	45.3
42.5°	776.4	491.5	64.2	53.0	49.2	46.8	45.3	43.2	40.6	38.9	38.7
45°	860.7	514.6	57.5	48.6	44.9	43.0	41.3	37.9	34.7	32.5	32.3
47.5°	923.6	518.9	52.2	44.3	41.3	39.4	37.0	32.7	28.4	26.5	25.9
50°	953.3	498.2	46.6	40.0	37.6	35.5	32.5	27.6	22.9	20.5	20.1
52.5°	963.8	462.2	42.1	36.1	34.0	31.4	27.8	22.2	18.0	15.6	15.4
55°	959.5	416.9	38.1	32.5	29.7	26.7	23.1	17.8	13.3	11.3	10.9
57.5°	937.1	359.1	34.0	28.9	25.5	22.5	18.4	13.3	9.0	7.3	7.1
60°	876.5	280.4	29.9	24.8	21.6	18.4	14.5	9.4	5.6	4.1	4.1
62.5°	774.3	208.1	26.1	20.7	18.2	14.8	10.3	6.0	3.0	2.1	1.9
65°	647.0	153.6	21.8	17.5	15.2	11.6	7.3	3.6	1.5	0.6	0.4
67.5°	451.5	94.8	18.2	14.3	12.4	8.3	4.5	1.5	0.6	0.0	0.0
70°	205.1	45.1	13.9	10.9	9.4	6.0	2.4	0.9	0.4	0.0	0.0
72.5°	63.7	23.7	9.8	7.9	6.4	3.9	1.3	0.6	0.4	0.0	0.0
75°	29.5	15.2	6.2	4.3	3.6	1.9	0.9	0.4	0.2	0.0	0.0
77.5°	22.0	11.8	3.6	2.4	1.9	1.3	0.6	0.4	0.2	0.0	0.0
80°	19.3	6.0	2.1	1.5	1.1	0.9	0.4	0.2	0.0	0.0	0.0
82.5°	17.3	3.0	1.3	0.9	0.6	0.4	0.2	0.2	0.0	0.0	0.0
85°	9.4	1.7	0.9	0.6	0.4	0.2	0.2	0.0	0.0	0.0	0.0
87.5°	1.7	0.9	0.6	0.4	0.4	0.2	0.2	0.2	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)