

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: P526359

Luminaire Tested: **GALN-SA1B-740-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-740-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3361 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

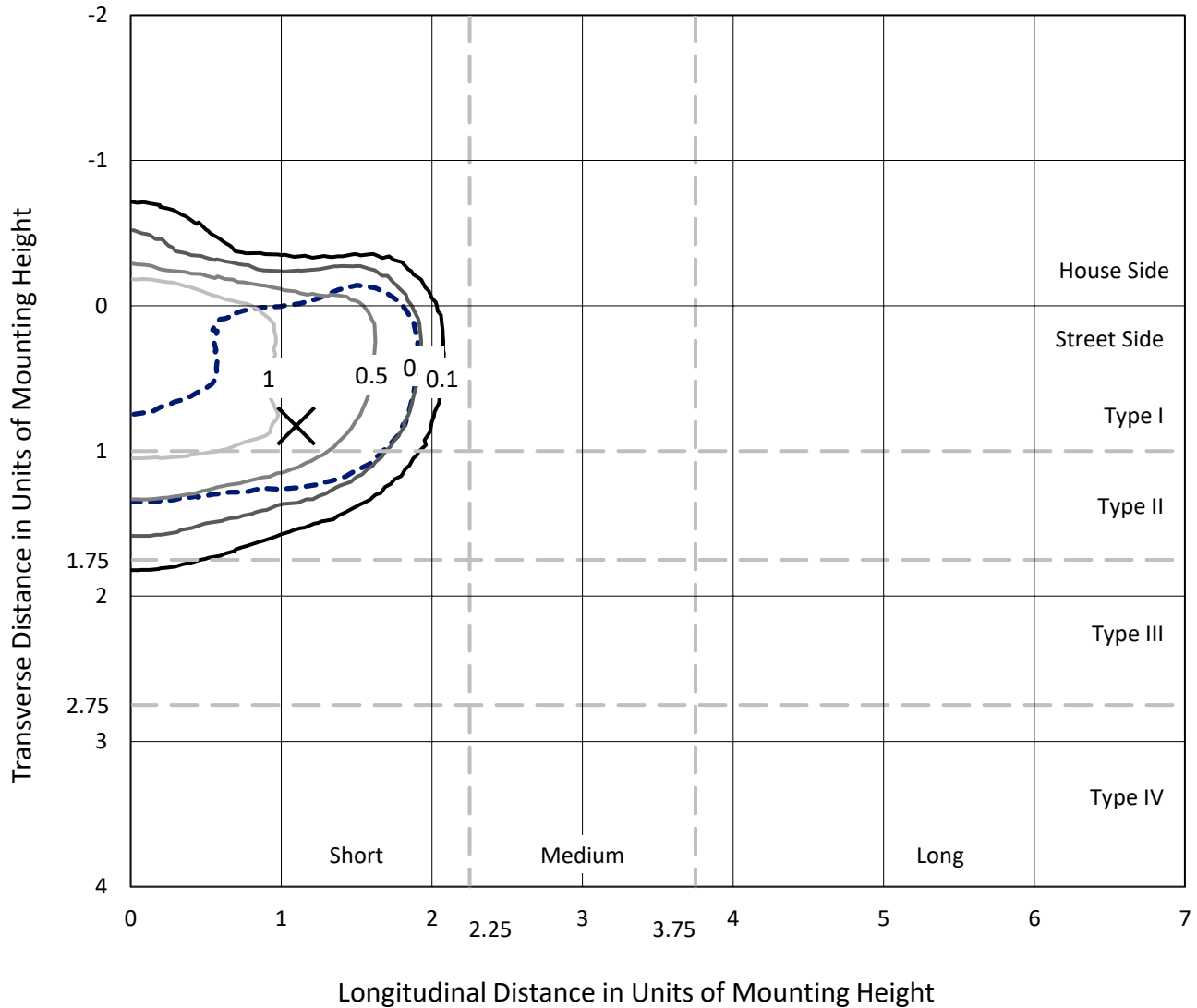
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

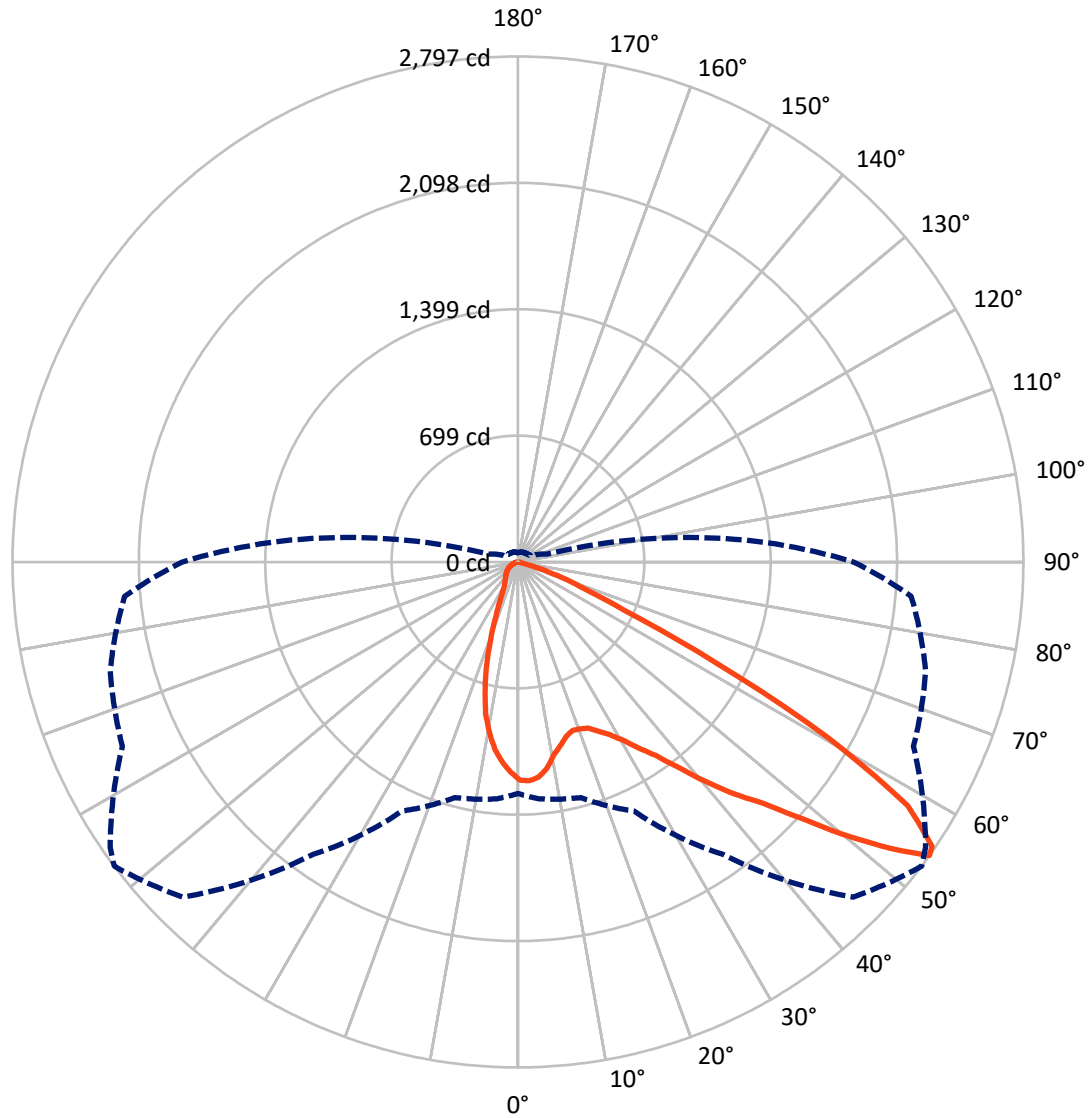
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	556.1	0.0	556.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	2804.9	0.0	2804.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	3361.0	0.0	3361.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	3.1
10°-20°	237.5	7.1
20°-30°	337.5	10.0
30°-40°	520.8	15.5
40°-50°	816.6	24.3
50°-60°	948.6	28.2
60°-70°	358.4	10.7
70°-80°	34.1	1.0
80°-90°	3.8	0.1
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°	3361.0	100.0
0°-180°	3361.0	100.0

Coefficient of Utilization



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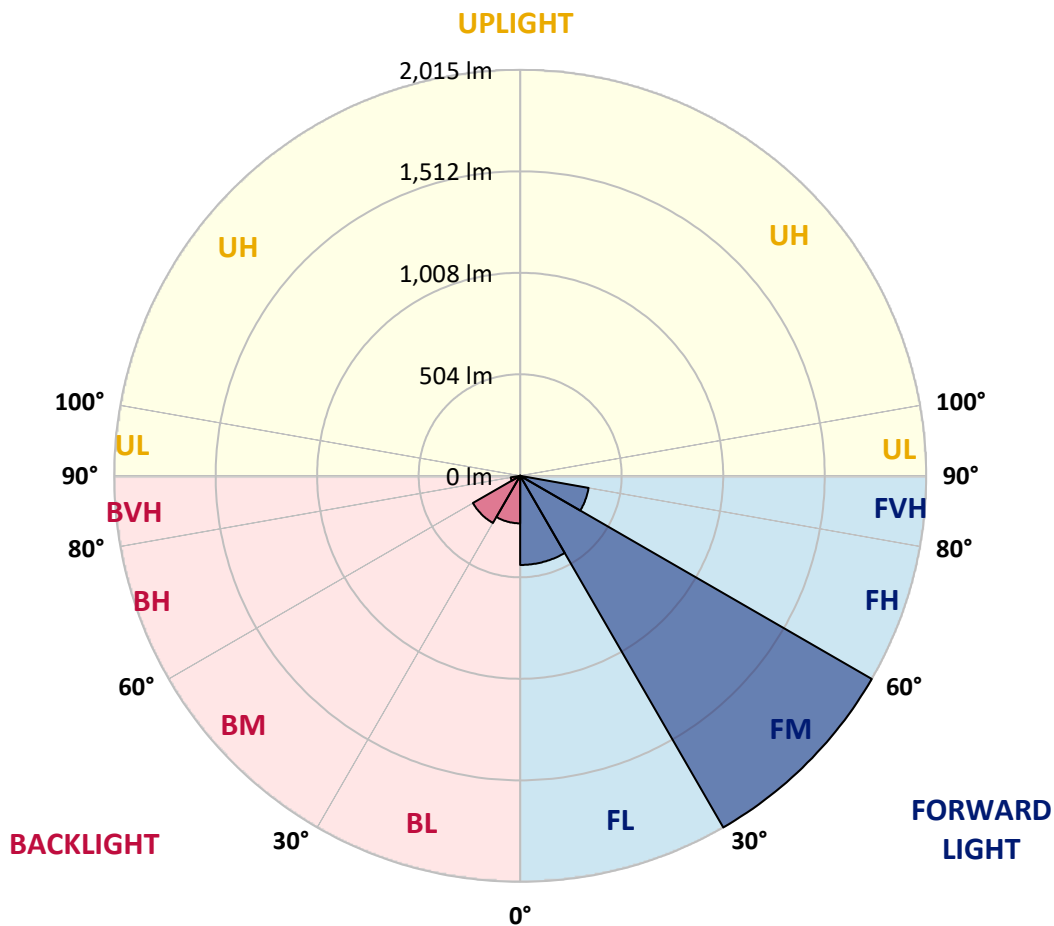
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	442.6	13.2			
FM (30°-60°)	2015.5	60.0			
FH (60°-80°)	344.9	10.3			G0/660
FVH (80°-90°)	2.0	0.1			G0/10
BL (0°-30°)	236.0	7.0	B1/500		
BM (30°-60°)	270.6	8.1	B1/1000		
BH (60°-80°)	47.6	1.4	B0/110		G0/110
BVH (80°-90°)	1.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2
2.5°	1201.0	1190.3	1201.0	1202.2	1209.7	1216.6	1212.2	1222.2	1216.6	1210.3	1208.5
5°	1103.9	1118.3	1118.9	1141.5	1136.5	1177.8	1195.9	1190.9	1221.6	1219.7	1215.4
7.5°	1016.9	1011.2	1018.7	1045.0	1078.2	1125.8	1152.1	1151.5	1195.3	1226.6	1223.5
10°	936.1	935.5	951.1	971.8	1000.0	1050.1	1086.4	1104.5	1172.8	1220.4	1227.3
12.5°	881.6	879.1	896.0	912.9	957.4	996.2	1042.5	1051.3	1129.6	1198.4	1209.7
15°	845.9	851.6	852.8	885.4	913.6	964.9	1001.2	1019.4	1109.5	1180.9	1224.1
17.5°	839.7	847.2	847.8	874.7	904.8	948.0	979.9	1004.3	1092.6	1189.7	1224.7
20°	852.2	847.8	851.6	868.5	897.9	939.2	985.6	993.7	1087.0	1194.1	1231.6
22.5°	887.9	886.6	877.2	891.0	911.7	954.9	998.7	1011.2	1103.3	1216.6	1237.3
25°	927.3	934.2	925.4	923.6	938.0	980.5	1038.8	1055.1	1157.7	1257.3	1254.8
27.5°	1001.2	994.3	994.3	985.6	981.8	1002.5	1082.0	1108.9	1218.5	1309.9	1274.8
30°	1072.0	1079.5	1073.8	1077.0	1051.9	1050.1	1143.3	1176.5	1326.2	1390.0	1317.4
32.5°	1184.0	1174.0	1183.4	1175.3	1142.1	1108.3	1226.6	1261.1	1456.4	1482.1	1381.3
35°	1277.3	1273.0	1313.0	1311.8	1257.9	1224.7	1314.9	1366.3	1547.2	1592.3	1456.4
37.5°	1410.1	1401.9	1447.7	1469.6	1421.4	1371.9	1441.4	1500.9	1631.7	1680.6	1533.4
40°	1546.6	1567.2	1628.6	1664.9	1613.6	1547.8	1596.1	1614.2	1688.1	1738.2	1586.0
42.5°	1719.4	1749.5	1812.1	1843.4	1839.0	1767.6	1753.2	1752.6	1728.8	1721.9	1624.9
45°	1885.3	1874.1	1970.5	2038.7	2093.8	2073.2	1904.7	1886.0	1793.3	1746.3	1634.9
47.5°	1958.0	1954.2	2020.0	2141.4	2329.3	2354.9	2125.1	2052.5	1902.2	1849.0	1689.3
50°	1864.0	1883.5	1948.6	2083.2	2371.2	2567.2	2395.6	2298.0	2029.3	1974.2	1818.3
52.5°	1557.2	1570.4	1632.4	1803.3	2228.5	2692.4	2654.9	2598.5	2262.9	2171.5	2043.1
54°	1280.5	1315.5	1349.4	1520.9	1974.2	2622.9	2797.0	2753.8	2415.1	2335.5	2184.6
55°	1115.2	1135.8	1160.3	1331.2	1798.3	2505.2	2780.7	2784.5	2517.1	2386.9	2279.8
57.5°	814.6	829.0	804.0	879.7	1234.8	2034.4	2543.4	2644.9	2654.9	2463.9	2338.0
60°	622.4	628.7	600.5	612.4	767.7	1396.3	1967.4	2089.5	2395.0	2153.3	1980.5
62.5°	482.8	484.0	483.4	504.0	529.1	821.5	1230.4	1338.7	1651.2	1529.1	1345.0
65°	355.7	350.0	360.0	422.7	451.5	516.6	648.1	727.0	897.3	757.6	541.6
67.5°	230.4	232.3	242.3	314.3	387.0	396.4	398.9	392.6	393.2	216.6	135.9
70°	138.4	141.5	138.4	177.8	276.8	284.3	259.9	253.6	197.9	51.3	50.7
72.5°	82.0	77.6	69.5	76.4	115.2	137.8	124.0	123.4	77.6	30.1	30.1
75°	34.4	31.3	25.7	23.2	30.7	29.4	29.4	26.3	20.7	20.0	18.8
77.5°	6.9	6.9	5.0	5.6	7.5	8.8	10.6	10.6	12.5	12.5	11.9
80°	0.0	0.6	1.9	3.8	5.6	8.1	9.4	9.4	10.6	10.6	8.8
82.5°	0.0	0.6	1.9	3.8	5.0	7.5	9.4	9.4	10.6	11.3	9.4
85°	0.0	0.6	1.9	3.1	5.0	6.3	6.3	5.6	4.4	3.8	2.5
87.5°	0.0	0.0	0.6	1.3	0.6	1.3	1.3	1.3	1.3	1.3	1.3
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°	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2	1207.2
2.5°	1212.8	1212.2	1197.2	1172.8	1167.1	1146.5	1144.0	1131.5	1138.3	1115.2	1112.7
5°	1202.8	1195.3	1177.2	1161.5	1115.8	1083.2	1057.6	1026.3	1008.1	1011.2	999.3
7.5°	1217.2	1197.8	1165.9	1111.4	1055.7	998.7	968.0	904.2	881.0	846.6	841.5
10°	1202.2	1187.8	1138.3	1048.2	971.2	889.1	817.1	746.4	692.5	669.4	664.3
12.5°	1201.0	1175.9	1093.3	993.1	881.6	763.9	659.3	571.0	517.8	487.8	480.9
15°	1181.5	1151.5	1042.5	907.9	753.9	607.4	493.4	408.2	367.5	350.0	355.0
17.5°	1183.4	1138.3	991.8	817.8	628.0	445.8	336.9	293.0	282.4	286.8	286.8
20°	1181.5	1108.9	930.5	713.8	480.9	309.3	247.3	231.7	238.6	252.3	249.2
22.5°	1171.5	1095.1	874.1	604.2	353.8	229.2	198.5	199.1	209.8	226.7	230.4
25°	1179.0	1064.5	802.7	493.4	258.0	182.8	172.2	176.6	187.8	200.4	202.9
27.5°	1173.4	1042.5	728.2	383.2	188.5	157.2	156.5	161.5	166.6	175.9	175.9
30°	1179.7	1022.5	655.0	284.9	155.3	144.0	141.5	145.3	150.3	152.2	151.5
32.5°	1202.8	1007.5	570.4	212.9	137.1	131.5	131.5	131.5	130.9	133.4	134.0
35°	1253.5	1010.0	495.9	164.7	125.2	120.8	119.0	116.5	115.2	116.5	117.1
37.5°	1308.7	1008.7	418.9	140.3	116.5	112.7	108.3	104.6	103.9	105.2	103.3
40°	1333.1	1020.6	347.5	125.9	108.3	103.9	97.1	93.9	94.5	95.8	94.5
42.5°	1366.3	1024.4	301.2	114.6	100.8	93.9	89.5	85.8	85.2	87.0	86.4
45°	1365.6	1003.1	252.3	108.3	93.9	86.4	80.8	77.6	77.6	78.9	79.5
47.5°	1405.7	1000.0	216.6	102.7	88.9	81.4	74.5	72.0	71.4	71.4	70.1
50°	1499.0	1043.8	189.1	96.4	82.7	75.8	70.1	67.0	64.5	63.2	62.6
52.5°	1681.2	1180.3	167.8	88.9	75.8	70.1	65.1	62.6	59.5	56.4	55.7
54°	1857.8	1321.2	166.6	82.7	70.1	66.4	62.0	60.7	57.0	52.6	51.3
55°	1937.3	1403.2	170.9	77.6	66.4	63.9	60.1	58.9	55.1	50.1	49.5
57.5°	2003.0	1435.1	168.4	64.5	60.1	59.5	56.4	54.5	50.1	43.2	42.0
60°	1612.3	1085.1	120.8	57.0	55.1	53.8	51.3	50.1	44.5	36.9	36.3
62.5°	1018.7	624.3	77.0	50.1	48.2	46.3	43.2	42.0	36.9	29.4	27.6
65°	433.9	258.6	52.0	44.5	41.3	38.2	35.7	33.8	29.4	21.9	21.3
67.5°	112.7	92.0	43.2	38.8	34.4	30.1	28.2	25.0	20.0	15.0	14.4
70°	50.7	46.3	36.3	32.6	27.6	23.2	20.7	17.5	13.1	10.0	9.4
72.5°	30.1	29.4	27.6	24.4	20.7	17.5	15.0	11.9	8.8	5.6	5.6
75°	18.8	18.2	18.8	16.9	14.4	13.1	11.3	8.1	5.0	2.5	2.5
77.5°	11.3	11.3	11.3	10.6	10.0	10.0	8.1	5.0	2.5	0.6	0.6
80°	8.8	8.8	9.4	8.8	8.8	8.8	6.9	3.8	1.3	0.0	0.0
82.5°	8.8	9.4	10.6	10.0	8.8	7.5	6.3	3.8	1.3	0.0	0.0
85°	2.5	1.9	3.1	4.4	6.3	5.6	4.4	3.1	1.3	0.0	0.0
87.5°	1.3	1.3	1.3	1.3	0.6	0.6	0.6	0.6	0.6	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)