

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: P526333

Luminaire Tested: **GALN-SA1B-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526333
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-735-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 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: 3131 lumens
Efficiency: N/A
Efficacy: 71.2 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

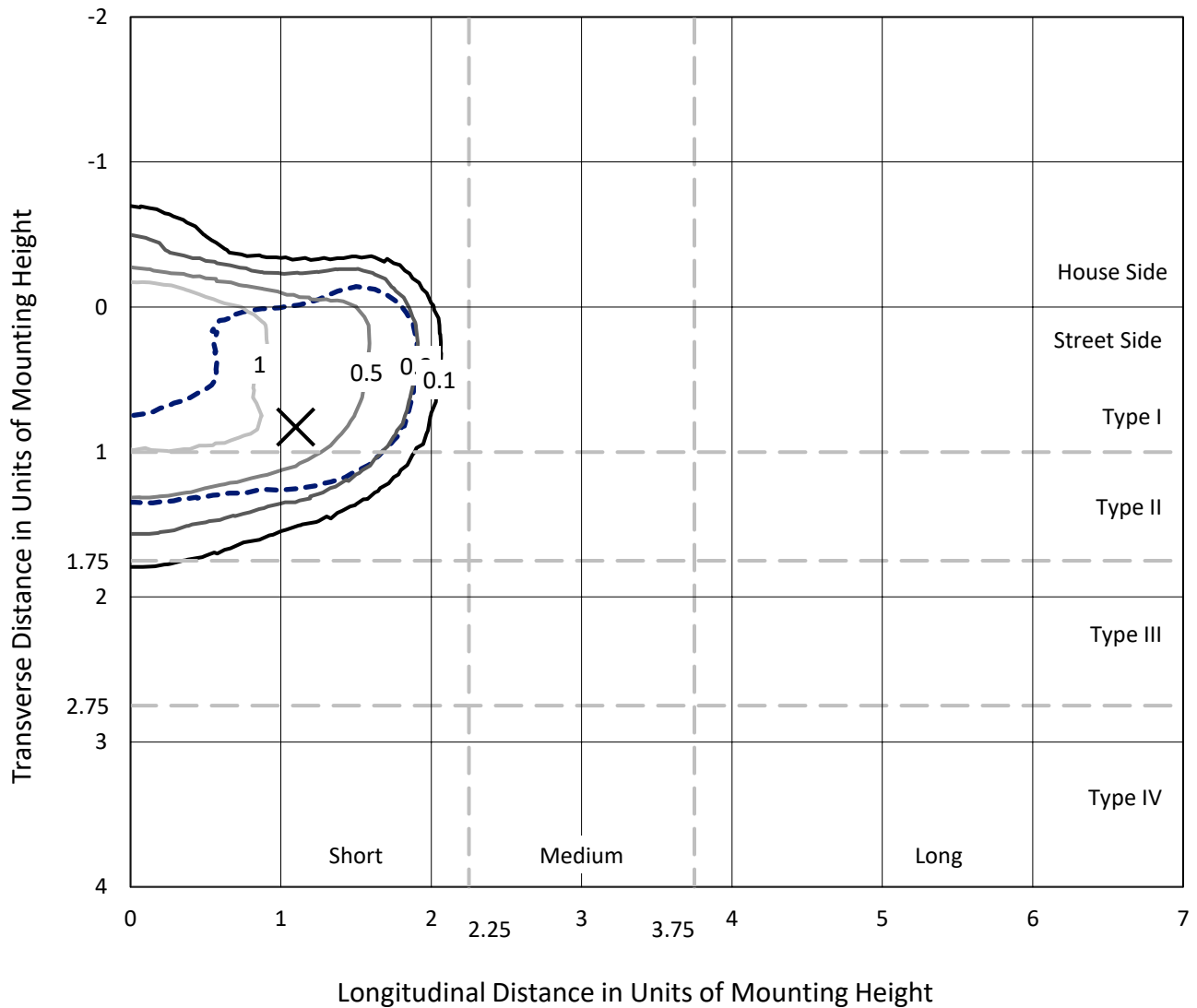
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

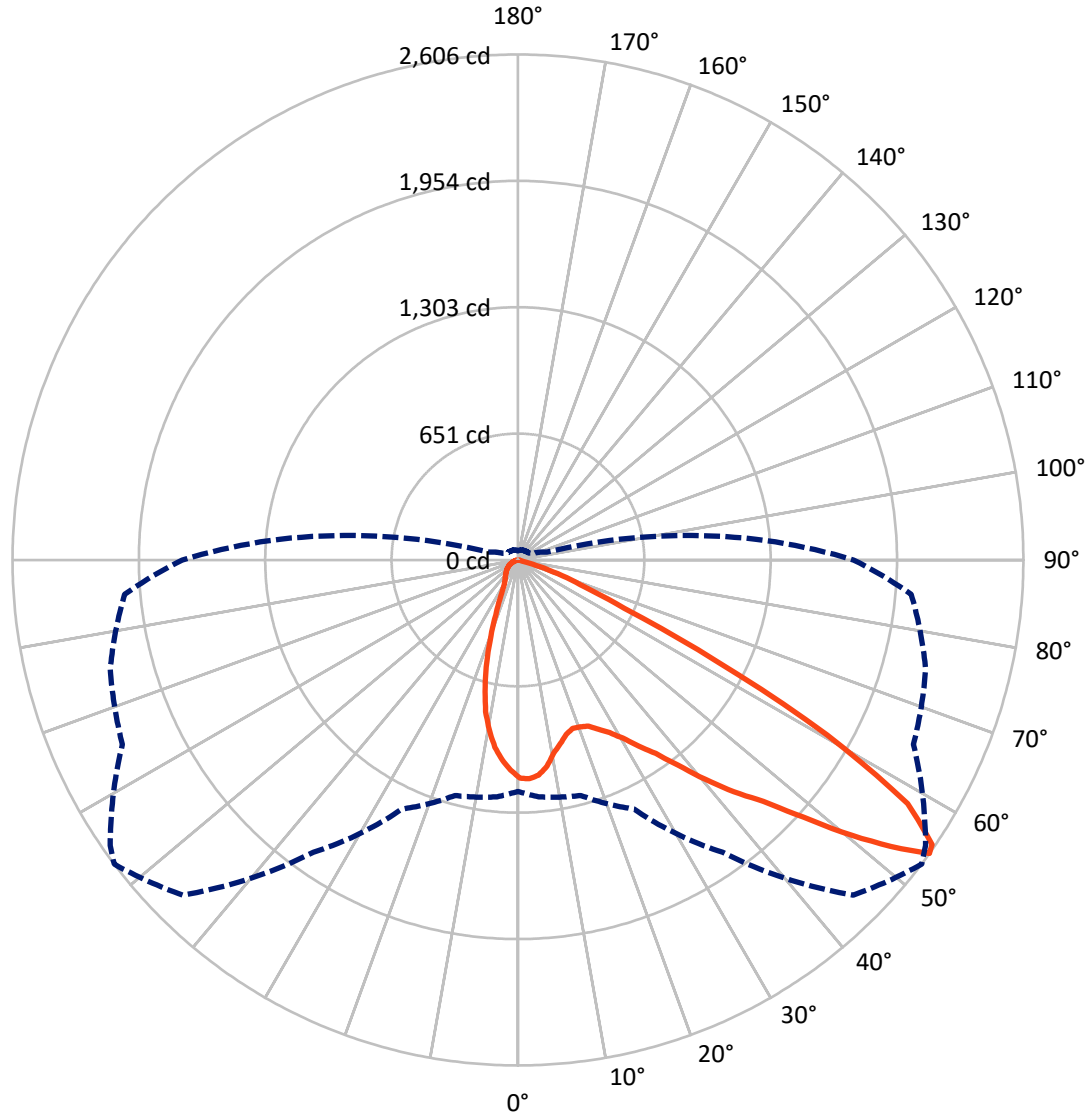
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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	518.0	0.0	518.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	2613.0	0.0	2613.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	3131.0	0.0	3131.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.5	3.1
10°-20°	221.2	7.1
20°-30°	314.4	10.0
30°-40°	485.2	15.5
40°-50°	760.7	24.3
50°-60°	883.7	28.2
60°-70°	333.9	10.7
70°-80°	31.7	1.0
80°-90°	3.6	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°	3131.0	100.0
0°-180°	3131.0	100.0

Coefficient of Utilization



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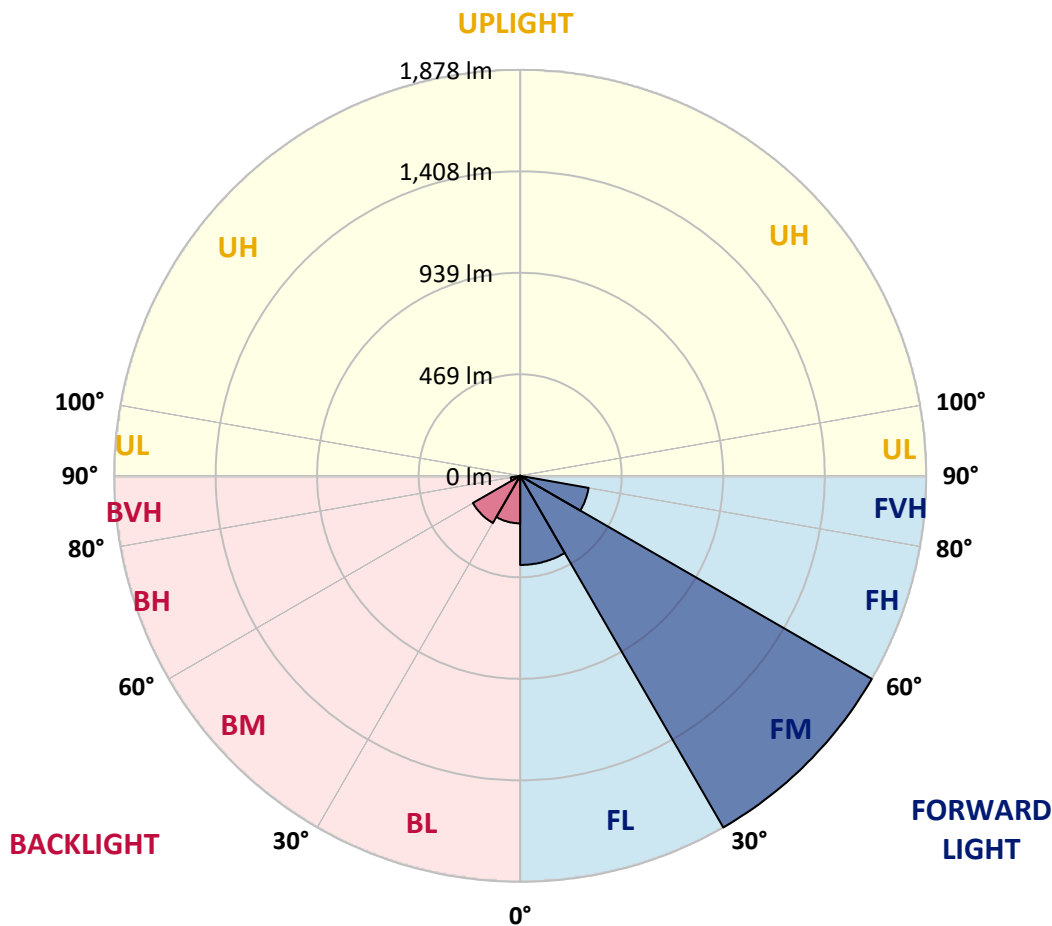
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	412.3	13.2			
FM (30°-60°)	1877.6	60.0			
FH (60°-80°)	321.3	10.3			G0/660
FVH (80°-90°)	1.8	0.1			G0/10
BL (0°-30°)	219.8	7.0	B1/500		
BM (30°-60°)	252.1	8.1	B1/1000		
BH (60°-80°)	44.4	1.4	B0/110		G0/110
BVH (80°-90°)	1.7	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°	1124.6	1124.6	1124.6	1124.6	1124.6	1124.6	1124.6	1124.6	1124.6	1124.6	1124.6
2.5°	1118.8	1108.9	1118.8	1119.9	1126.9	1133.4	1129.3	1138.6	1133.4	1127.5	1125.8
5°	1028.4	1041.8	1042.4	1063.4	1058.7	1097.2	1114.1	1109.4	1138.0	1136.3	1132.2
7.5°	947.3	942.0	949.0	973.5	1004.4	1048.8	1073.3	1072.7	1113.5	1142.7	1139.8
10°	872.0	871.5	886.0	905.3	931.5	978.2	1012.0	1028.9	1092.5	1136.9	1143.3
12.5°	821.3	819.0	834.7	850.5	891.9	928.0	971.2	979.4	1052.3	1116.4	1126.9
15°	788.0	793.3	794.5	824.8	851.0	898.9	932.7	949.6	1033.6	1100.1	1140.4
17.5°	782.2	789.2	789.8	814.9	842.9	883.1	912.9	935.6	1017.9	1108.3	1140.9
20°	793.9	789.8	793.3	809.0	836.5	875.0	918.1	925.7	1012.6	1112.4	1147.4
22.5°	827.1	826.0	817.2	830.0	849.3	889.5	930.4	942.0	1027.8	1133.4	1152.6
25°	863.9	870.3	862.1	860.4	873.8	913.4	967.7	982.9	1078.5	1171.3	1168.9
27.5°	932.7	926.3	926.3	918.1	914.6	933.9	1007.9	1033.0	1135.1	1220.3	1187.6
30°	998.6	1005.6	1000.4	1003.3	979.9	978.2	1065.1	1096.0	1235.4	1294.9	1227.3
32.5°	1103.0	1093.7	1102.4	1094.9	1063.9	1032.4	1142.7	1174.8	1356.8	1380.7	1286.8
35°	1189.9	1185.8	1223.2	1222.0	1171.8	1140.9	1224.9	1272.8	1441.3	1483.3	1356.8
37.5°	1313.6	1306.0	1348.6	1369.0	1324.1	1278.0	1342.8	1398.2	1520.1	1565.6	1428.5
40°	1440.8	1460.0	1517.2	1551.0	1503.2	1441.9	1486.8	1503.7	1572.6	1619.2	1477.5
42.5°	1601.7	1629.7	1688.1	1717.2	1713.2	1646.7	1633.2	1632.7	1610.5	1604.1	1513.7
45°	1756.3	1745.8	1835.6	1899.2	1950.6	1931.3	1774.4	1756.9	1670.6	1626.8	1523.0
47.5°	1824.0	1820.5	1881.7	1994.9	2169.9	2193.8	1979.7	1912.1	1772.1	1722.5	1573.7
50°	1736.5	1754.6	1815.2	1940.6	2209.0	2391.5	2231.7	2140.7	1890.5	1839.1	1693.9
52.5°	1450.7	1462.9	1520.7	1679.9	2076.0	2508.2	2473.2	2420.7	2108.0	2022.9	1903.3
54°	1192.8	1225.5	1257.0	1416.8	1839.1	2443.4	2605.6	2565.4	2249.8	2175.7	2035.1
55°	1038.9	1058.1	1080.9	1240.1	1675.2	2333.8	2590.4	2593.9	2344.9	2223.5	2123.8
57.5°	758.9	772.3	749.0	819.5	1150.3	1895.1	2369.4	2463.9	2473.2	2295.3	2178.0
60°	579.8	585.6	559.4	570.5	715.1	1300.8	1832.7	1946.5	2231.1	2006.0	1845.0
62.5°	449.7	450.9	450.3	469.6	492.9	765.3	1146.2	1247.1	1538.2	1424.4	1252.9
65°	331.3	326.1	335.4	393.7	420.6	481.2	603.7	677.2	835.9	705.8	504.6
67.5°	214.7	216.4	225.7	292.8	360.5	369.2	371.6	365.7	366.3	201.8	126.6
70°	128.9	131.8	128.9	165.7	257.8	264.8	242.1	236.2	184.3	47.8	47.2
72.5°	76.4	72.3	64.7	71.2	107.3	128.3	115.5	114.9	72.3	28.0	28.0
75°	32.1	29.2	23.9	21.6	28.6	27.4	27.4	24.5	19.2	18.7	17.5
77.5°	6.4	6.4	4.7	5.2	7.0	8.2	9.9	9.9	11.7	11.7	11.1
80°	0.0	0.6	1.7	3.5	5.2	7.6	8.7	8.7	9.9	9.9	8.2
82.5°	0.0	0.6	1.7	3.5	4.7	7.0	8.7	8.7	9.9	10.5	8.7
85°	0.0	0.6	1.7	2.9	4.7	5.8	5.8	5.2	4.1	3.5	2.3
87.5°	0.0	0.0	0.6	1.2	0.6	1.2	1.2	1.2	1.2	1.2	1.2
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°	1124.6	1124.6	1124.6	1124.6	1124.6	1124.6	1124.6	1124.6	1124.6	1124.6	1124.6
2.5°	1129.9	1129.3	1115.3	1092.5	1087.3	1068.0	1065.7	1054.0	1060.4	1038.9	1036.5
5°	1120.5	1113.5	1096.6	1082.0	1039.4	1009.1	985.2	956.0	939.1	942.0	930.9
7.5°	1133.9	1115.9	1086.1	1035.4	983.4	930.4	901.8	842.3	820.7	788.6	784.0
10°	1119.9	1106.5	1060.4	976.4	904.7	828.3	761.2	695.3	645.1	623.5	618.9
12.5°	1118.8	1095.4	1018.4	925.1	821.3	711.6	614.2	532.0	482.4	454.4	448.0
15°	1100.7	1072.7	971.2	845.8	702.3	565.8	459.6	380.3	342.4	326.1	330.7
17.5°	1102.4	1060.4	923.9	761.8	585.0	415.3	313.8	273.0	263.1	267.2	267.2
20°	1100.7	1033.0	866.8	665.0	448.0	288.2	230.4	215.8	222.2	235.1	232.2
22.5°	1091.4	1020.2	814.3	562.9	329.6	213.5	184.9	185.5	195.4	211.2	214.7
25°	1098.4	991.6	747.8	459.6	240.3	170.3	160.4	164.5	175.0	186.7	189.0
27.5°	1093.1	971.2	678.4	357.0	175.6	146.4	145.8	150.5	155.2	163.9	163.9
30°	1098.9	952.5	610.1	265.4	144.7	134.2	131.8	135.3	140.0	141.7	141.2
32.5°	1120.5	938.5	531.4	198.3	127.7	122.5	122.5	122.5	121.9	124.2	124.8
35°	1167.8	940.9	462.0	153.4	116.7	112.6	110.8	108.5	107.3	108.5	109.1
37.5°	1219.1	939.7	390.2	130.7	108.5	105.0	100.9	97.4	96.8	98.0	96.2
40°	1241.8	950.8	323.7	117.2	100.9	96.8	90.4	87.5	88.1	89.2	88.1
42.5°	1272.8	954.3	280.6	106.7	93.9	87.5	83.4	79.9	79.3	81.1	80.5
45°	1272.2	934.4	235.1	100.9	87.5	80.5	75.2	72.3	72.3	73.5	74.1
47.5°	1309.5	931.5	201.8	95.7	82.8	75.8	69.4	67.1	66.5	66.5	65.3
50°	1396.4	972.4	176.2	89.8	77.0	70.6	65.3	62.4	60.1	58.9	58.3
52.5°	1566.2	1099.5	156.3	82.8	70.6	65.3	60.7	58.3	55.4	52.5	51.9
54°	1730.7	1230.8	155.2	77.0	65.3	61.8	57.7	56.6	53.1	49.0	47.8
55°	1804.7	1307.2	159.2	72.3	61.8	59.5	56.0	54.8	51.3	46.7	46.1
57.5°	1866.0	1336.9	156.9	60.1	56.0	55.4	52.5	50.7	46.7	40.2	39.1
60°	1502.0	1010.9	112.6	53.1	51.3	50.2	47.8	46.7	41.4	34.4	33.8
62.5°	949.0	581.6	71.7	46.7	44.9	43.2	40.2	39.1	34.4	27.4	25.7
65°	404.2	240.9	48.4	41.4	38.5	35.6	33.2	31.5	27.4	20.4	19.8
67.5°	105.0	85.7	40.2	36.2	32.1	28.0	26.2	23.3	18.7	14.0	13.4
70°	47.2	43.2	33.8	30.3	25.7	21.6	19.2	16.3	12.2	9.3	8.7
72.5°	28.0	27.4	25.7	22.7	19.2	16.3	14.0	11.1	8.2	5.2	5.2
75°	17.5	16.9	17.5	15.7	13.4	12.2	10.5	7.6	4.7	2.3	2.3
77.5°	10.5	10.5	10.5	9.9	9.3	9.3	7.6	4.7	2.3	0.6	0.6
80°	8.2	8.2	8.7	8.2	8.2	8.2	6.4	3.5	1.2	0.0	0.0
82.5°	8.2	8.7	9.9	9.3	8.2	7.0	5.8	3.5	1.2	0.0	0.0
85°	2.3	1.7	2.9	4.1	5.8	5.2	4.1	2.9	1.2	0.0	0.0
87.5°	1.2	1.2	1.2	1.2	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)