

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: P458550

Luminaire Tested: **GALN-SA1B-735-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458550
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4437 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

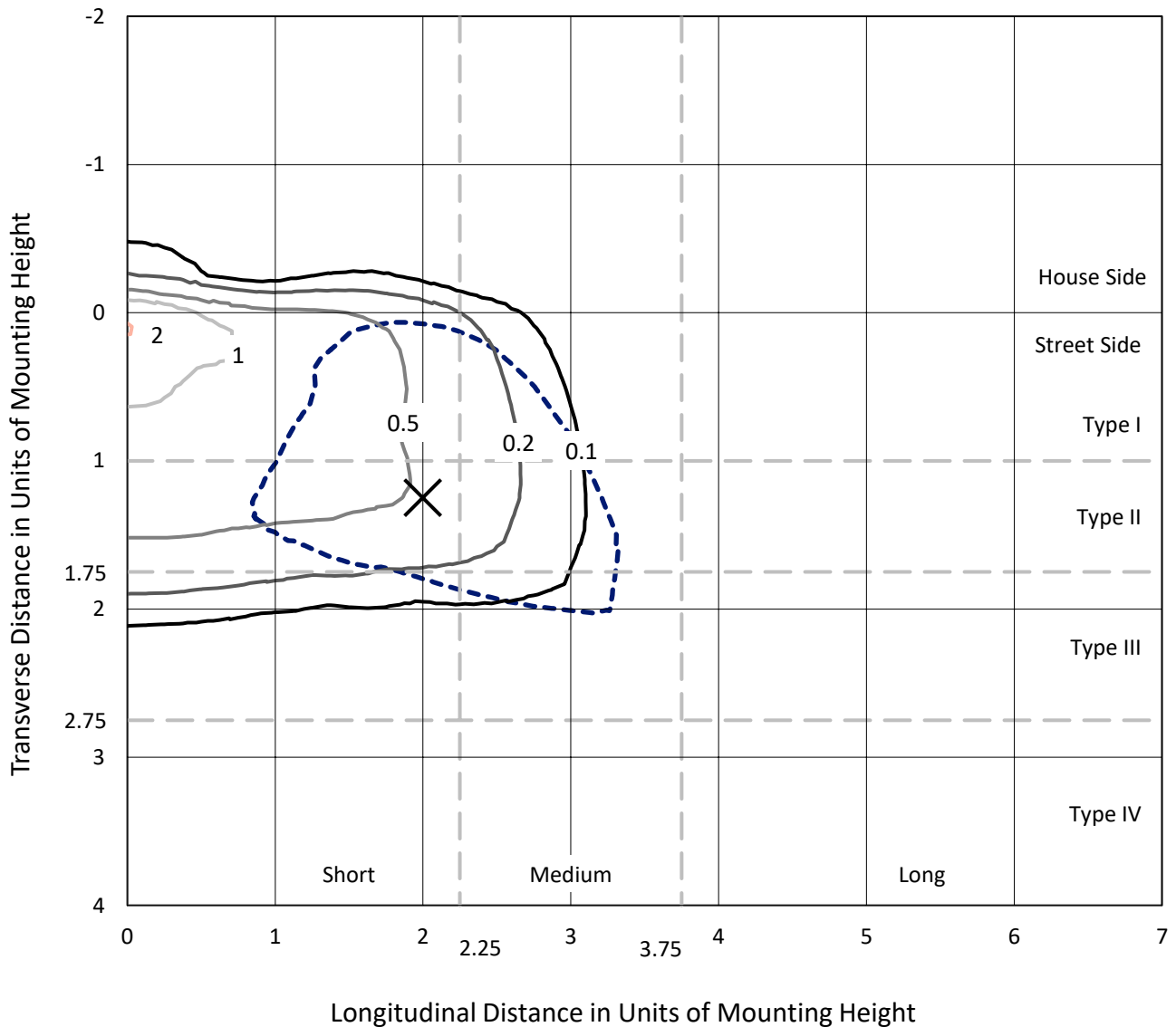
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

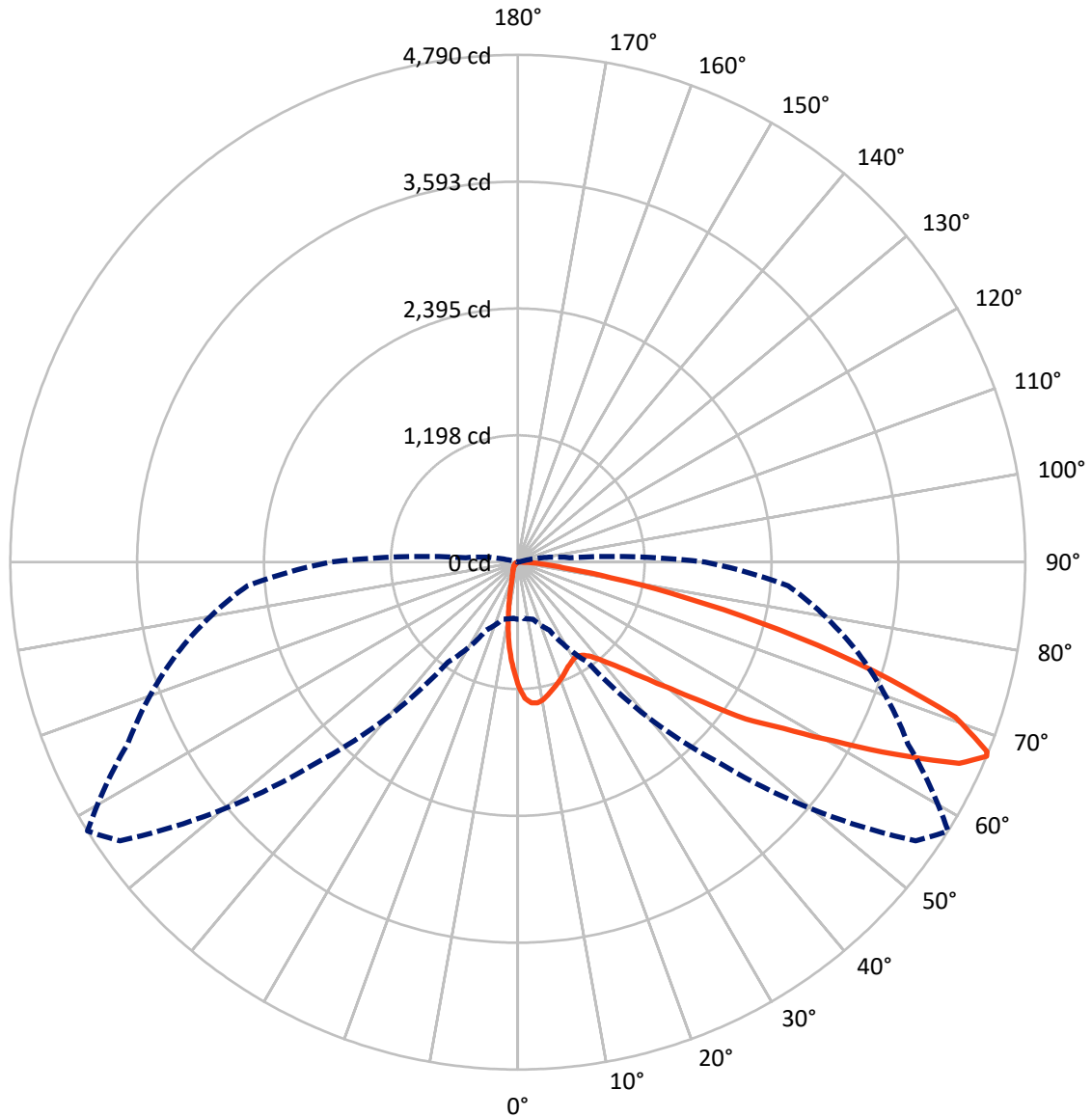
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	320.2	0.0	320.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	4116.8	0.0	4116.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	4437.0	0.0	4437.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	2.2
10°-20°	206.1	4.6
20°-30°	279.3	6.3
30°-40°	387.4	8.7
40°-50°	617.9	13.9
50°-60°	1068.1	24.1
60°-70°	1220.1	27.5
70°-80°	508.7	11.5
80°-90°	53.9	1.2
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°	4437.0	100.0
0°-180°	4437.0	100.0

Coefficient of Utilization

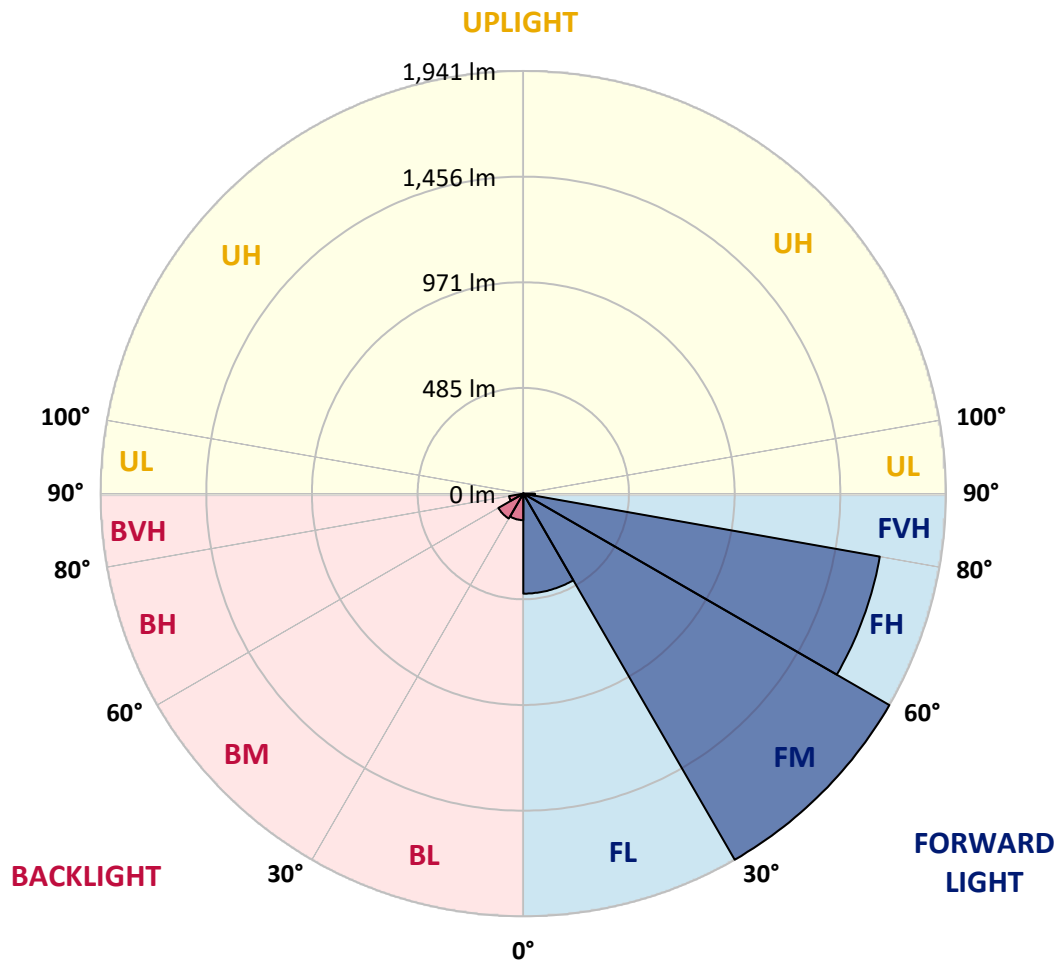


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	459.3	10.4			
FM (30°-60°)	1941.4	43.8			
FH (60°-80°)	1662.6	37.5			G1/1800
FVH (80°-90°)	53.5	1.2			G1/100
BL (0°-30°)	121.6	2.7	B1/500		
BM (30°-60°)	132.0	3.0	B0/220		
BH (60°-80°)	66.2	1.5	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: B1-U0-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1176.2	1176.2	1176.2	1176.2	1176.2	1176.2	1176.2	1176.2	1176.2	1176.2	1176.2
2.5°	1365.1	1367.2	1359.4	1353.2	1337.2	1320.0	1297.2	1285.0	1264.3	1228.4	1188.7
5°	1397.1	1399.8	1398.6	1397.1	1390.9	1374.3	1345.2	1334.5	1304.0	1245.6	1173.8
7.5°	1325.9	1335.7	1336.9	1348.5	1359.4	1360.9	1350.0	1342.0	1313.8	1245.3	1147.4
10°	1231.7	1238.2	1247.7	1261.0	1287.4	1309.3	1320.0	1318.8	1302.5	1236.1	1116.6
12.5°	1136.5	1140.0	1154.6	1177.4	1209.7	1247.1	1275.5	1281.2	1281.5	1225.1	1090.8
15°	1054.6	1053.2	1064.4	1090.8	1136.2	1183.0	1234.0	1242.9	1257.2	1214.5	1066.8
17.5°	984.7	992.4	994.2	1023.2	1065.0	1125.8	1190.7	1206.5	1234.9	1205.3	1046.9
20°	941.4	945.5	949.4	965.7	1003.3	1067.4	1150.1	1171.8	1214.2	1197.0	1024.7
22.5°	928.6	931.3	928.0	933.1	959.8	1016.7	1105.9	1134.7	1194.3	1189.3	1006.6
25°	938.4	941.1	933.4	927.4	936.6	975.5	1063.2	1098.2	1178.3	1187.8	993.0
27.5°	962.1	967.2	956.5	945.8	940.5	953.2	1029.7	1070.4	1167.3	1194.9	986.7
30°	999.2	1002.2	994.2	981.1	969.0	956.2	1012.2	1051.1	1164.3	1211.5	986.2
32.5°	1039.5	1045.7	1041.3	1032.7	1017.0	986.7	1017.3	1051.7	1171.5	1235.5	993.6
35°	1089.3	1096.4	1100.6	1098.8	1078.7	1041.0	1049.3	1078.4	1190.4	1279.7	1013.7
37.5°	1138.3	1144.5	1167.9	1175.9	1158.1	1122.5	1111.6	1130.8	1232.2	1337.5	1050.2
40°	1194.3	1202.6	1235.5	1266.0	1257.4	1220.1	1199.9	1215.9	1296.3	1424.7	1119.3
42.5°	1248.0	1262.8	1312.9	1366.9	1374.9	1333.1	1319.7	1325.1	1391.2	1550.1	1215.6
45°	1324.2	1338.1	1402.7	1476.0	1513.6	1481.0	1467.4	1466.5	1521.3	1726.5	1371.9
47.5°	1434.2	1446.6	1522.8	1595.2	1662.2	1666.6	1640.8	1649.7	1685.0	1932.9	1563.4
50°	1569.1	1598.4	1648.5	1723.8	1813.4	1885.7	1893.7	1881.9	1912.1	2171.8	1793.5
52.5°	1765.1	1776.3	1822.3	1884.2	1989.2	2112.0	2207.1	2190.8	2181.3	2399.6	2026.0
55°	1911.2	1926.3	1997.8	2082.9	2236.8	2398.7	2605.0	2610.7	2490.9	2618.4	2253.4
57.5°	1867.0	1890.2	1998.4	2169.5	2507.8	2803.7	2957.3	2961.1	2777.3	2831.0	2510.2
60°	1640.2	1651.2	1806.3	2034.6	2530.9	3242.5	3456.9	3425.7	3068.8	3068.8	2737.0
62.5°	1163.2	1180.4	1306.1	1642.0	2285.7	3394.9	4055.2	3990.9	3470.2	3296.2	2872.2
65°	743.3	726.7	810.0	1036.6	1702.8	3169.9	4576.2	4580.0	3848.0	3387.2	2798.3
67°	538.4	531.9	555.9	708.6	1154.6	2664.6	4587.1	4790.2	4065.0	3329.7	2562.3
67.5°	492.5	497.5	515.0	639.2	1049.0	2424.8	4537.3	4777.8	4113.9	3295.0	2476.9
70°	373.3	364.7	383.7	452.2	628.9	1529.6	3903.1	4381.9	4053.1	2950.7	1979.1
72.5°	274.6	273.7	300.1	369.7	484.2	814.8	2930.0	3513.5	3311.3	2246.9	1246.2
75°	185.3	193.6	235.7	309.0	438.8	528.4	1997.5	2549.0	2298.7	1275.8	509.4
77.5°	105.6	106.1	151.8	248.2	394.0	425.2	1183.6	1623.9	1216.8	424.3	151.2
80°	45.7	50.1	75.3	180.3	326.7	376.6	678.7	892.5	492.2	89.8	48.9
82.5°	16.9	19.9	33.2	110.9	238.4	310.1	410.1	426.1	166.9	31.7	30.5
85°	0.0	0.6	12.2	51.9	124.2	138.5	274.0	252.6	73.8	15.1	19.9
87.5°	0.0	0.0	0.0	5.3	16.3	51.6	85.1	94.9	17.8	5.3	4.7
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°	1176.2	1176.2	1176.2	1176.2	1176.2	1176.2	1176.2	1176.2	1176.2	1176.2	1176.2
2.5°	1167.3	1148.0	1099.7	1051.4	1015.5	985.6	940.5	915.9	902.8	883.6	884.8
5°	1138.0	1098.8	1013.7	925.7	854.5	785.1	702.1	668.6	640.4	624.4	613.8
7.5°	1094.4	1036.6	910.5	793.1	683.7	562.5	471.4	410.6	369.7	354.6	340.1
10°	1046.6	969.8	805.9	643.1	491.3	366.2	289.1	233.3	213.5	195.1	196.9
12.5°	1002.5	909.1	709.8	507.6	344.2	232.8	181.5	158.6	152.1	150.0	150.0
15°	966.3	850.9	606.6	381.6	236.0	167.2	145.3	139.1	136.7	136.1	136.1
17.5°	927.7	795.8	513.5	282.0	171.7	139.9	132.5	128.4	127.5	126.9	126.9
20°	893.3	740.4	425.2	209.9	138.8	126.0	121.3	118.6	117.7	117.1	117.4
22.5°	860.7	691.1	342.2	158.6	122.2	114.7	110.0	107.3	105.6	104.1	104.4
25°	831.7	643.7	275.2	129.9	110.0	103.5	98.7	94.9	91.0	89.2	88.9
27.5°	811.2	602.2	214.4	111.2	99.0	91.9	86.0	81.2	76.2	73.5	72.9
30°	794.3	560.1	169.6	98.1	88.1	81.2	73.8	67.0	61.7	59.0	57.8
32.5°	783.3	520.1	133.7	87.5	78.9	70.6	62.3	55.4	49.5	46.8	46.3
35°	781.6	486.6	109.4	78.6	70.6	61.7	53.1	45.7	40.6	38.0	37.4
37.5°	794.3	460.8	91.6	71.5	63.7	54.0	44.5	37.7	33.2	31.1	30.8
40°	828.4	444.5	79.5	65.5	57.5	46.8	38.0	32.0	27.6	25.5	25.5
42.5°	893.3	445.0	71.5	59.9	51.3	40.0	32.3	26.7	22.8	21.1	20.5
45°	994.8	465.2	64.6	54.3	45.4	34.7	27.6	21.9	18.1	16.6	16.6
47.5°	1130.5	505.2	58.7	48.6	40.0	29.6	23.4	17.8	14.5	13.0	13.0
50°	1308.1	569.6	53.7	43.9	35.6	25.5	19.0	14.5	11.3	10.1	9.8
52.5°	1493.8	649.0	47.7	39.7	30.5	21.6	15.4	11.3	8.6	7.7	7.4
55°	1698.6	726.7	42.1	35.6	24.9	18.1	12.2	8.9	6.2	5.3	5.3
57.5°	1905.3	802.9	35.3	29.6	19.6	13.3	9.5	6.5	4.2	3.3	3.3
60°	2080.2	827.5	29.9	24.0	14.8	9.5	6.8	4.2	2.4	1.5	1.5
62.5°	2104.2	744.5	25.2	18.4	10.7	6.5	3.6	2.4	0.9	0.6	0.6
65°	1973.8	604.9	21.1	13.9	7.1	3.3	1.5	0.9	0.3	0.0	0.0
67°	1768.6	490.4	17.2	10.4	5.0	2.1	0.9	0.3	0.0	0.0	0.0
67.5°	1716.1	467.6	16.6	9.8	4.4	1.8	0.6	0.3	0.0	0.0	0.0
70°	1346.7	350.2	11.9	5.9	2.7	1.2	0.0	0.0	0.0	0.0	0.0
72.5°	837.0	198.1	8.6	3.6	1.8	0.6	0.0	0.0	0.0	0.0	0.0
75°	316.4	69.4	5.9	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	98.4	26.4	3.6	1.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	33.2	10.1	2.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	20.5	4.2	1.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.7	1.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	0.6	0.3	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)