

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: P458606

Luminaire Tested: **GALN-SA1D-735-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458606
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5968 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

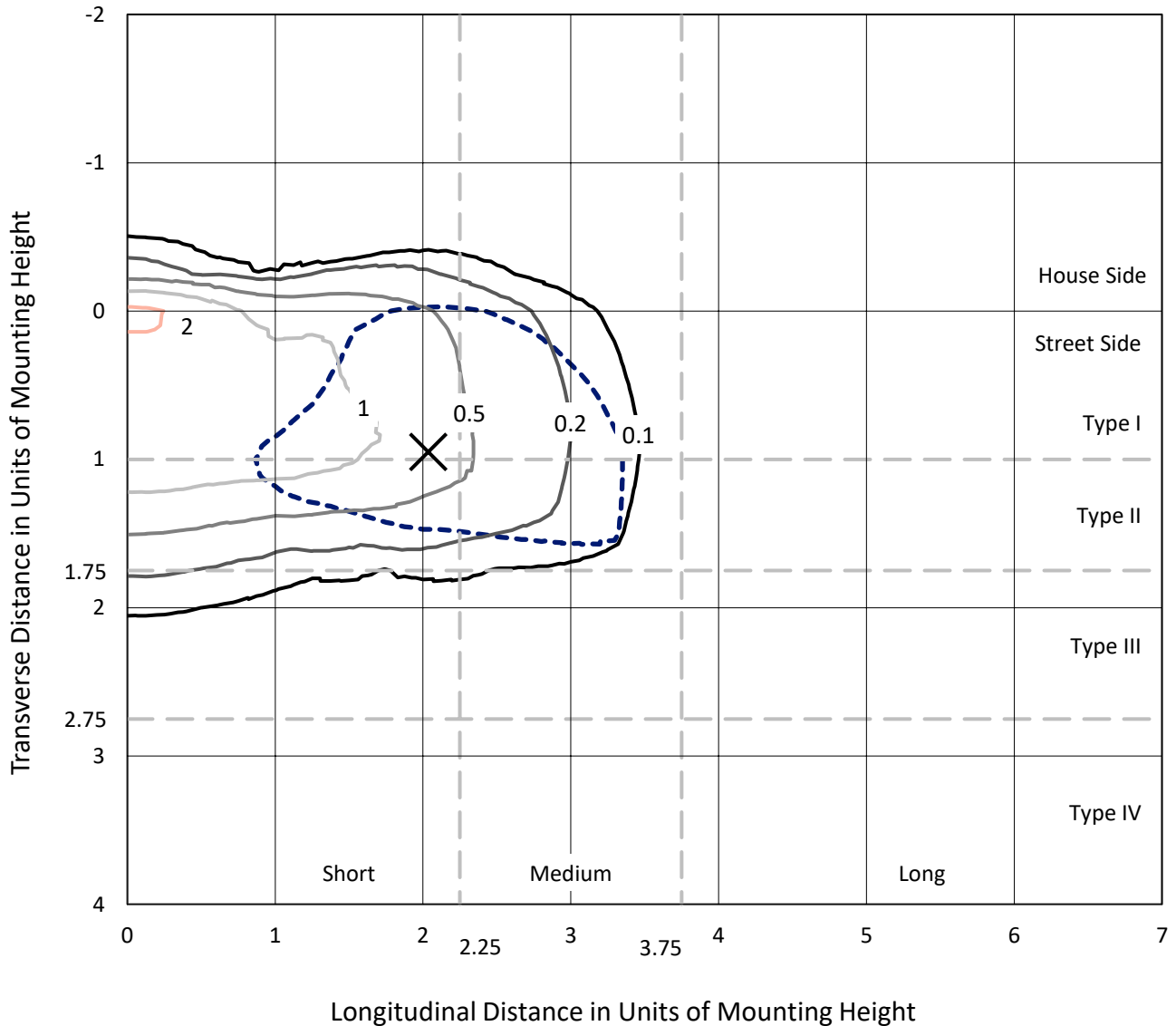
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

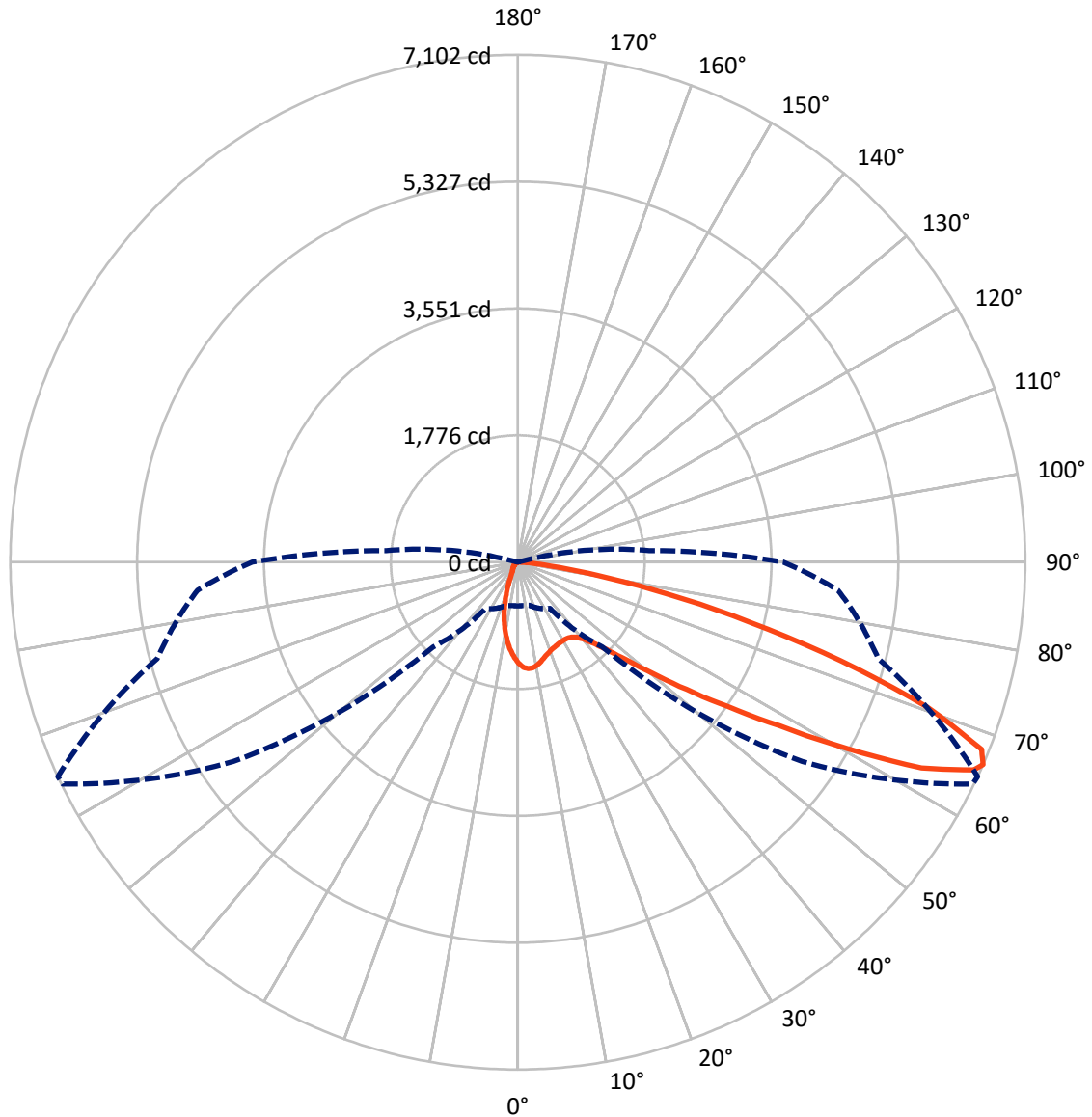
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	617.2	0.0	617.2
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	5350.8	0.0	5350.8
	% Fixture	89.7	0.0	89.7
Total	Lumens	5968.0	0.0	5968.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.7	1.9
10°-20°	252.2	4.2
20°-30°	361.3	6.1
30°-40°	527.7	8.8
40°-50°	884.8	14.8
50°-60°	1476.6	24.7
60°-70°	1567.3	26.3
70°-80°	709.8	11.9
80°-90°	72.6	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°	5968.0	100.0
0°-180°	5968.0	100.0

Coefficient of Utilization

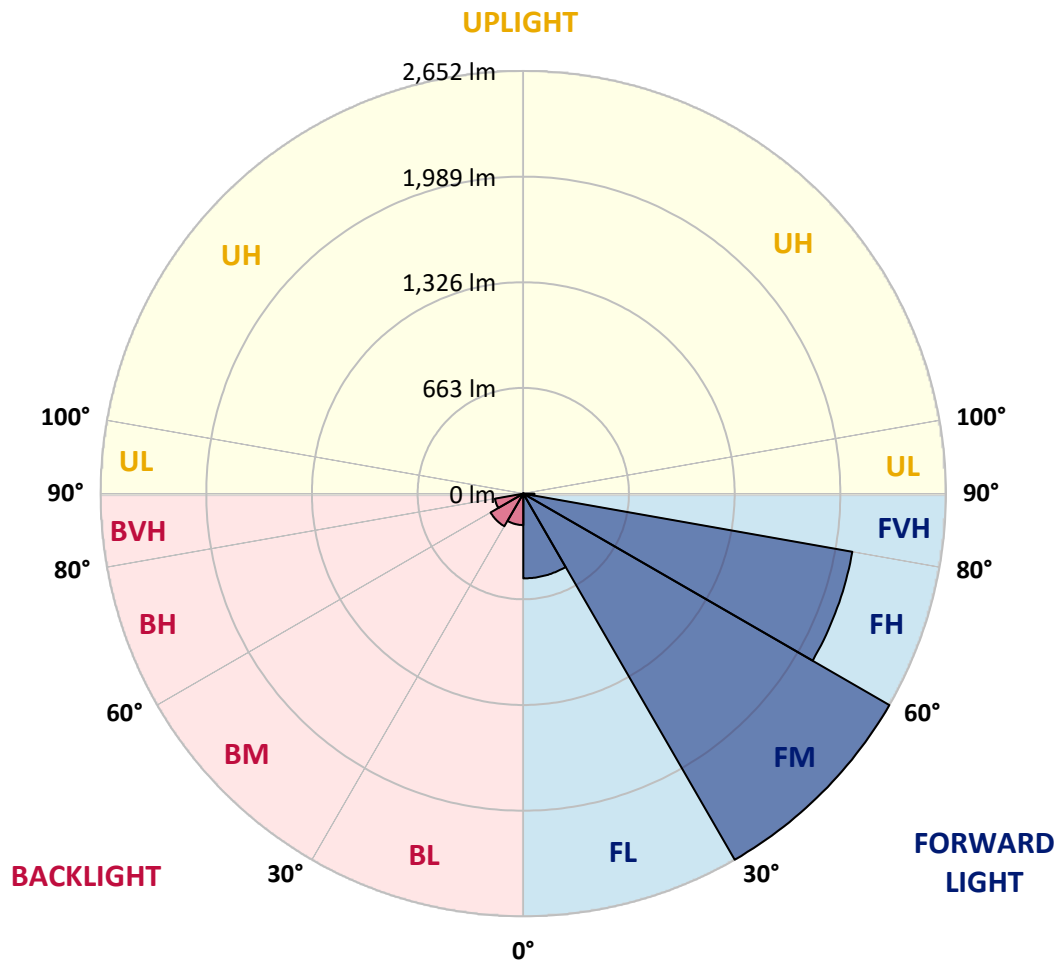


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	531.8	8.9			
FM (30°-60°)	2652.3	44.4			
FH (60°-80°)	2096.4	35.1			G2/5000
FVH (80°-90°)	70.3	1.2			G1/100
BL (0°-30°)	197.4	3.3	B1/500		
BM (30°-60°)	236.7	4.0	B1/1000		
BH (60°-80°)	180.7	3.0	B1/500		G1/500
BVH (80°-90°)	2.3	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2
2.5°	1491.4	1493.0	1495.0	1497.9	1499.9	1493.8	1485.4	1475.7	1473.7	1453.1	1428.1
5°	1411.6	1414.0	1431.8	1441.4	1463.2	1483.0	1495.4	1497.1	1496.3	1476.9	1437.0
7.5°	1297.9	1304.8	1322.1	1339.0	1379.8	1417.2	1461.6	1492.6	1494.6	1489.4	1439.8
10°	1205.6	1210.1	1218.9	1252.4	1286.2	1343.5	1405.6	1464.0	1468.8	1489.8	1437.4
12.5°	1133.5	1139.9	1150.8	1176.6	1217.3	1271.3	1341.9	1420.5	1430.6	1482.1	1430.6
15°	1083.1	1086.3	1097.2	1122.6	1162.1	1212.1	1283.4	1374.9	1383.8	1472.1	1429.3
17.5°	1059.3	1062.9	1070.6	1090.7	1123.4	1169.8	1239.5	1338.2	1349.5	1465.6	1433.8
20°	1065.8	1069.0	1069.4	1079.9	1102.0	1141.1	1207.2	1304.0	1318.5	1461.6	1441.0
22.5°	1102.4	1102.8	1098.0	1093.2	1100.8	1129.0	1187.5	1282.2	1297.1	1460.8	1449.5
25°	1157.3	1158.5	1150.4	1133.5	1118.2	1132.7	1183.1	1268.1	1281.4	1458.8	1454.7
27.5°	1233.0	1232.6	1230.2	1202.0	1158.5	1148.8	1186.7	1260.4	1271.7	1453.1	1456.8
30°	1339.0	1335.8	1330.6	1298.7	1232.2	1187.9	1202.0	1255.6	1266.1	1445.1	1451.5
32.5°	1443.4	1455.5	1454.7	1424.5	1341.5	1257.6	1233.8	1262.1	1269.7	1439.8	1443.9
35°	1565.2	1564.8	1595.8	1584.5	1487.4	1346.7	1288.3	1283.4	1289.5	1443.4	1440.2
37.5°	1678.0	1688.5	1736.9	1748.6	1659.9	1472.5	1365.3	1329.4	1331.4	1468.0	1449.1
40°	1818.7	1838.9	1911.0	1950.1	1871.9	1659.1	1478.9	1413.6	1414.0	1528.5	1482.5
42.5°	2000.1	2032.0	2099.3	2164.6	2122.6	1880.0	1649.4	1547.0	1546.2	1634.9	1559.1
45°	2220.6	2242.8	2319.4	2422.9	2396.3	2188.4	1897.7	1753.8	1743.3	1809.5	1695.0
47.5°	2410.9	2441.1	2518.9	2637.0	2757.9	2564.8	2194.4	2038.0	2031.1	2087.2	1928.0
50°	2493.9	2520.5	2602.3	2768.0	3061.0	3059.0	2636.2	2452.8	2441.1	2471.3	2288.3
52.5°	2402.8	2427.8	2510.4	2716.8	3203.7	3661.2	3276.3	2973.2	2959.1	2920.4	2718.8
55°	2090.8	2111.4	2233.5	2470.5	3148.9	4062.7	4158.2	3616.1	3561.3	3410.9	3206.1
57.5°	1664.7	1654.3	1730.0	2005.3	2827.2	4197.3	5063.6	4417.0	4319.1	3835.0	3618.5
60°	1153.6	1185.9	1216.5	1397.9	2125.9	3963.9	5626.7	5423.9	5294.9	4252.1	4013.5
62.5°	848.1	869.5	889.6	973.5	1336.6	3165.0	5726.2	6458.2	6343.8	4695.1	4390.4
65°	670.7	672.3	680.4	763.0	880.7	2058.2	5247.8	7041.5	7012.1	5121.6	4543.2
66°	611.1	611.5	624.0	712.7	790.5	1676.0	4864.4	7085.8	7102.0	5224.0	4498.4
67.5°	534.1	532.5	550.6	640.5	719.9	1208.5	4178.4	6906.1	7001.6	5302.6	4337.6
70°	414.0	412.0	434.1	537.3	663.1	806.2	2777.3	5929.8	6083.8	5141.8	3837.8
72.5°	275.7	277.3	315.2	424.0	632.8	709.8	1670.8	4510.9	4728.6	4246.1	3019.1
75°	160.8	163.7	206.8	315.2	549.4	676.8	945.6	3216.6	3355.7	2932.0	1880.8
77.5°	84.2	85.5	115.7	208.0	421.2	628.4	630.0	2054.9	2120.2	1424.9	744.5
80°	44.7	43.5	62.1	125.4	289.8	551.8	511.1	1087.9	1131.1	423.2	188.2
82.5°	16.9	18.5	33.1	82.2	171.3	396.2	440.2	480.9	466.0	93.1	79.0
85°	3.2	4.0	14.1	48.8	86.3	165.7	324.5	235.8	218.5	35.1	45.5
87.5°	0.4	0.8	4.0	11.7	12.5	56.0	95.9	65.3	56.4	12.9	18.9
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°	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2	1415.2
2.5°	1416.0	1405.2	1368.9	1333.0	1296.3	1263.3	1240.7	1204.0	1194.7	1181.4	1173.8
5°	1413.2	1387.8	1318.1	1241.9	1171.0	1094.4	1035.9	979.5	949.3	933.9	928.3
7.5°	1405.2	1364.8	1256.0	1136.7	1023.0	908.6	809.0	733.2	684.4	651.0	628.4
10°	1389.0	1333.4	1183.9	1019.8	848.1	696.9	570.8	474.8	400.7	377.3	378.1
12.5°	1372.5	1298.3	1103.2	890.0	677.2	486.5	352.7	276.9	241.4	229.8	227.3
15°	1357.2	1264.9	1024.2	764.2	504.3	315.2	227.3	200.7	191.1	189.0	188.6
17.5°	1349.1	1233.8	940.0	620.3	351.9	214.0	182.2	174.9	172.1	170.1	169.3
20°	1342.3	1206.8	859.4	485.7	240.6	175.3	163.2	156.4	151.6	149.5	148.3
22.5°	1337.4	1179.0	775.9	376.1	184.2	155.6	144.7	135.8	129.0	126.6	125.0
25°	1330.2	1148.4	691.7	274.9	155.2	138.3	125.8	115.3	106.4	102.0	101.2
27.5°	1319.7	1113.7	599.4	203.6	138.7	122.9	107.6	94.7	85.9	81.0	81.4
30°	1302.8	1077.4	507.1	161.6	125.4	107.2	90.7	78.2	69.7	66.1	65.7
32.5°	1282.6	1033.5	422.4	138.7	113.3	93.1	75.8	64.9	58.4	55.6	55.2
35°	1263.7	989.2	336.2	124.6	100.8	80.2	63.7	54.4	49.6	47.2	47.6
37.5°	1253.2	949.7	262.0	113.3	90.7	68.9	54.8	46.8	42.3	40.3	39.9
40°	1260.0	917.4	208.4	103.2	79.4	59.3	47.2	40.3	35.9	33.1	33.1
42.5°	1292.3	903.3	168.1	93.5	68.9	51.2	41.1	34.7	29.8	27.0	27.4
45°	1390.6	918.2	140.7	84.6	59.3	44.3	35.5	28.6	24.2	22.2	21.8
47.5°	1553.9	974.3	121.7	75.4	50.8	37.9	29.8	23.8	19.3	17.7	17.3
50°	1839.3	1089.9	107.6	66.1	43.1	32.2	24.6	18.9	15.3	13.7	13.7
52.5°	2231.9	1342.3	97.5	55.6	36.3	27.4	20.2	15.3	12.1	10.9	10.5
55°	2642.2	1608.3	92.3	46.8	30.2	22.6	16.1	12.1	9.3	8.1	7.7
57.5°	3036.8	1817.1	86.3	37.9	24.2	17.3	12.5	9.3	6.4	5.6	5.2
60°	3415.3	1986.0	73.4	30.2	18.9	12.5	9.3	6.4	4.4	3.6	3.6
62.5°	3753.9	2084.4	57.6	24.2	14.5	8.9	6.0	4.8	3.2	2.4	2.4
65°	3793.4	1956.6	43.5	18.5	10.5	5.6	3.6	3.6	2.4	1.6	1.6
66°	3714.0	1848.1	38.3	16.9	9.3	4.8	3.2	2.8	2.0	1.2	1.2
67.5°	3536.7	1663.1	33.1	14.5	7.7	3.6	2.4	2.4	1.6	0.8	0.8
70°	3055.8	1358.4	26.2	10.9	5.6	2.8	1.6	1.6	1.2	0.8	0.8
72.5°	2329.0	1014.2	21.4	8.1	4.0	2.0	1.2	1.2	1.2	0.8	0.8
75°	1404.8	546.2	16.5	6.0	3.6	1.6	0.8	1.2	1.6	1.2	0.8
77.5°	517.6	185.8	12.9	4.8	2.8	1.6	0.8	0.8	1.6	1.2	1.2
80°	127.0	48.4	9.3	4.0	2.8	1.6	0.8	0.8	1.6	1.6	1.6
82.5°	58.9	20.6	6.4	3.6	2.8	1.6	0.8	0.8	1.2	1.6	1.6
85°	33.9	9.7	5.2	4.0	2.8	1.6	0.8	0.8	1.2	1.6	1.6
87.5°	13.7	4.8	4.8	4.0	3.2	2.0	0.8	0.8	0.8	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

(END OF REPORT)