

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: P526309

Luminaire Tested: **GALN-SA1B-730-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526309
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-730-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3066 lumens
Efficiency: N/A
Efficacy: 69.7 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

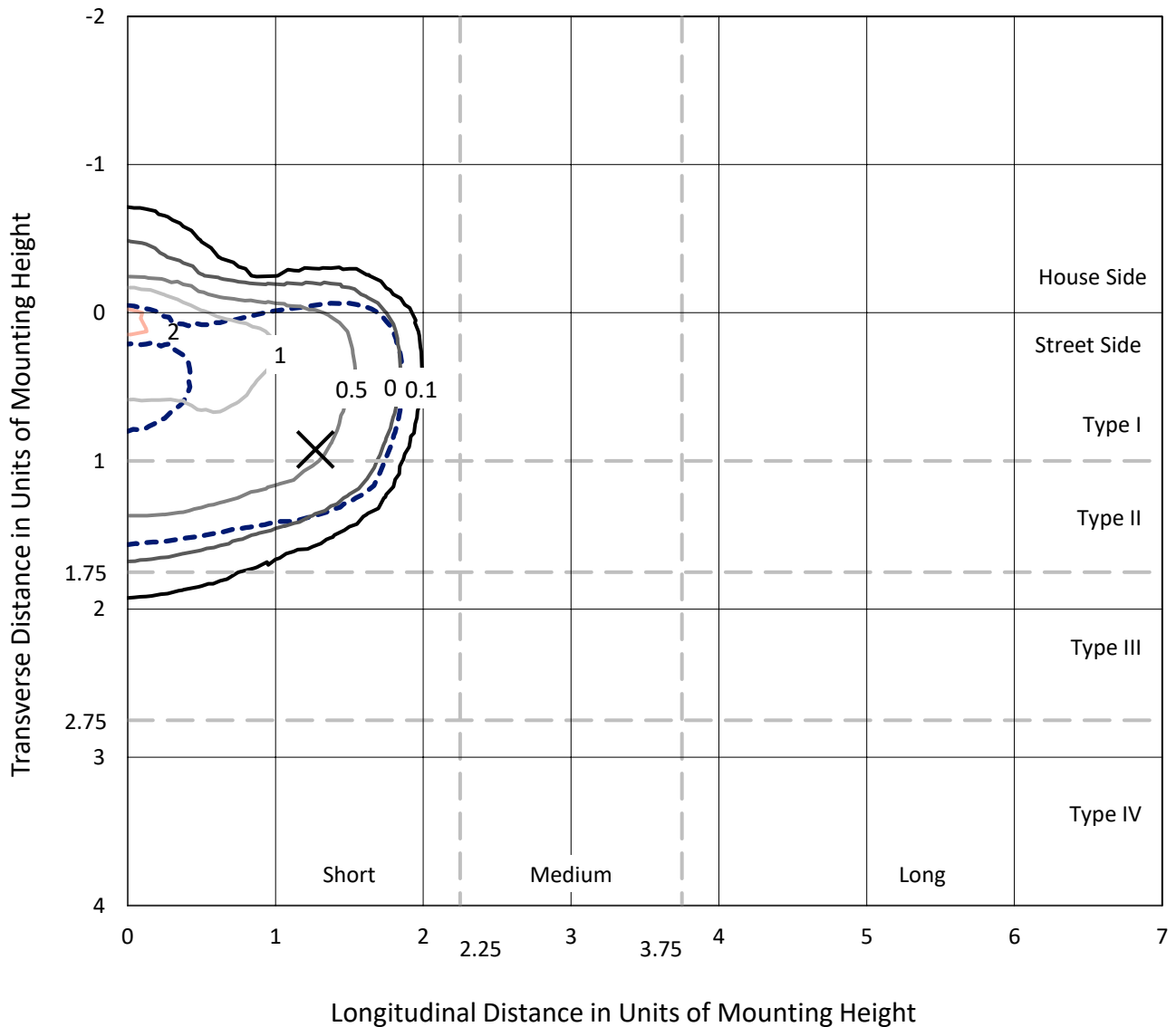
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

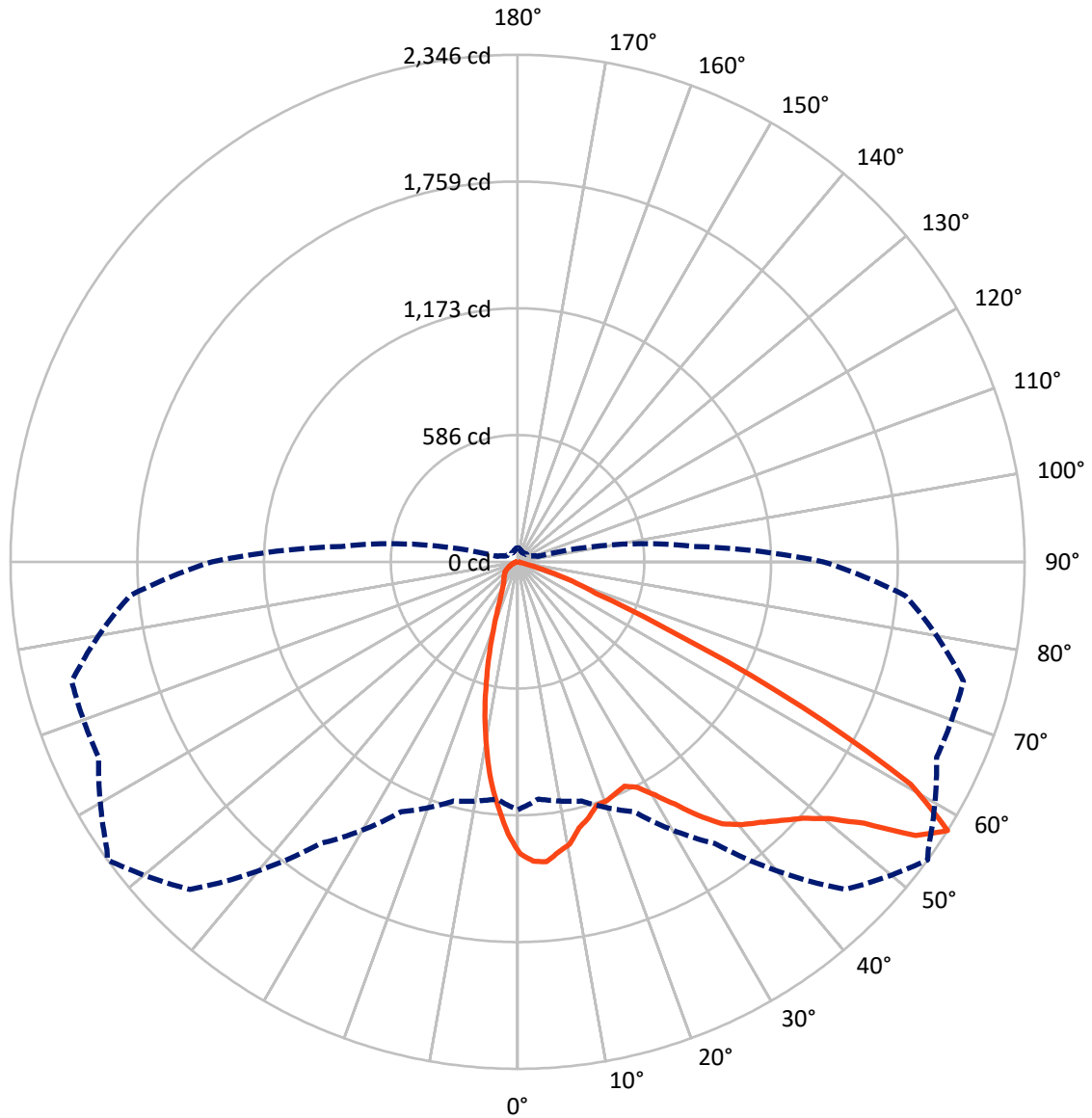
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	433.3	0.0	433.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	2632.7	0.0	2632.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	3066.0	0.0	3066.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.0	3.7
10°-20°	241.3	7.9
20°-30°	319.8	10.4
30°-40°	464.7	15.2
40°-50°	689.1	22.5
50°-60°	861.7	28.1
60°-70°	339.9	11.1
70°-80°	33.8	1.1
80°-90°	2.6	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°	3066.0	100.0
0°-180°	3066.0	100.0

Coefficient of Utilization

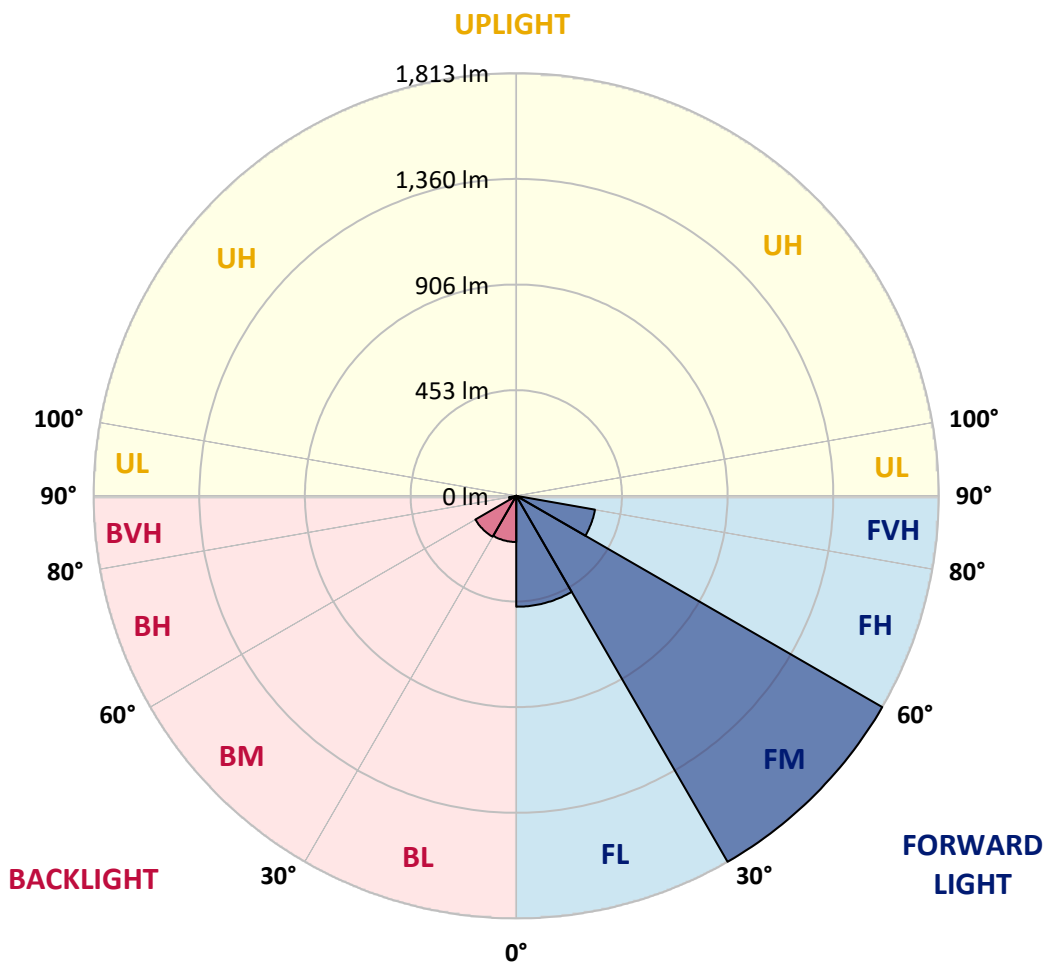


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	475.9	15.5			
FM (30°-60°)	1812.9	59.1			
FH (60°-80°)	342.7	11.2			G0/660
FVH (80°-90°)	1.2	0.0			G0/10
BL (0°-30°)	198.2	6.5	B1/500		
BM (30°-60°)	202.6	6.6	B0/220		
BH (60°-80°)	31.1	1.0	B0/110		G0/110
BVH (80°-90°)	1.4	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-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6
2.5°	1429.3	1414.5	1415.6	1410.5	1403.6	1408.8	1386.5	1391.7	1391.1	1360.9	1340.9
5°	1393.4	1409.3	1392.8	1406.5	1393.4	1407.6	1393.9	1383.7	1367.1	1344.9	1307.9
7.5°	1332.4	1317.0	1321.5	1338.6	1341.5	1373.4	1356.3	1369.4	1362.6	1318.7	1267.9
10°	1209.8	1206.4	1229.2	1252.0	1279.9	1314.1	1327.2	1319.8	1314.7	1298.2	1230.3
12.5°	1115.7	1125.4	1124.8	1162.5	1209.8	1229.2	1263.4	1262.2	1290.8	1260.0	1195.0
15°	1026.2	1031.3	1055.3	1078.7	1131.1	1186.4	1228.6	1234.3	1268.5	1246.9	1167.6
17.5°	971.5	964.1	982.9	1010.8	1064.4	1136.8	1183.6	1197.3	1244.0	1239.4	1136.2
20°	917.3	917.3	932.7	965.8	1014.8	1096.3	1179.6	1175.6	1244.0	1230.9	1102.6
22.5°	899.1	908.2	912.2	937.3	995.4	1065.6	1162.5	1169.9	1253.7	1226.9	1087.8
25°	924.2	912.2	913.3	933.3	988.0	1050.7	1149.9	1166.5	1271.4	1246.9	1075.8
27.5°	928.2	940.1	943.5	957.2	993.7	1055.3	1181.3	1214.9	1315.3	1293.6	1079.2
30°	962.9	974.9	974.3	997.7	1022.8	1092.3	1251.4	1258.3	1405.9	1352.3	1100.3
32.5°	1005.1	1017.7	1021.7	1049.0	1069.0	1160.2	1336.9	1354.6	1493.1	1444.7	1155.6
35°	1057.6	1053.0	1071.3	1098.6	1141.4	1259.4	1441.3	1470.9	1587.2	1564.4	1212.6
37.5°	1123.1	1117.4	1135.1	1179.6	1237.7	1376.8	1537.6	1557.0	1655.6	1675.6	1318.1
40°	1169.3	1171.6	1225.2	1285.1	1346.6	1488.6	1598.6	1617.4	1703.5	1779.3	1397.9
42.5°	1246.3	1260.5	1325.0	1397.9	1462.4	1572.4	1648.2	1666.5	1725.8	1862.6	1505.7
45°	1358.0	1351.8	1423.0	1504.5	1575.8	1659.6	1706.9	1700.7	1738.9	1945.2	1573.5
47.5°	1501.7	1502.8	1550.2	1619.7	1693.8	1735.4	1772.5	1750.3	1766.2	2032.5	1664.2
50°	1599.8	1608.3	1646.5	1717.8	1754.8	1818.7	1866.0	1852.3	1847.2	2084.9	1721.2
52.5°	1624.8	1650.5	1671.0	1760.0	1846.6	1947.5	2008.0	2037.0	1945.8	2102.6	1793.6
55°	1435.6	1458.4	1530.8	1652.8	1881.4	2151.6	2234.9	2235.4	2074.7	2181.3	1844.3
57.5°	1147.7	1101.5	1145.9	1275.4	1590.6	2143.1	2345.5	2318.7	2139.1	2135.1	1800.4
60°	793.6	782.2	785.1	836.4	1100.9	1704.7	2090.1	2124.8	1969.8	1850.6	1425.3
62.5°	628.8	619.2	606.6	600.9	683.6	1062.1	1474.3	1523.4	1377.4	1200.1	844.9
65°	492.6	486.9	488.6	511.4	510.8	602.6	806.1	786.2	629.4	465.2	265.7
67.5°	332.4	340.9	347.8	416.8	452.1	419.6	389.4	378.0	204.7	86.1	58.7
70°	187.0	188.1	195.6	260.5	343.2	325.5	268.5	268.5	102.1	31.4	33.6
72.5°	102.1	98.6	91.8	112.3	152.8	155.1	119.7	104.3	30.2	20.5	18.8
75°	49.6	49.0	42.2	34.8	33.1	27.4	21.1	19.4	13.7	13.1	11.4
77.5°	10.3	9.7	5.1	5.1	5.7	6.3	8.0	8.0	9.7	9.7	8.0
80°	0.0	0.0	0.6	2.3	4.0	5.7	6.8	6.8	8.0	8.0	6.3
82.5°	0.0	0.0	0.6	1.7	3.4	5.1	6.3	6.8	8.0	8.6	6.8
85°	0.0	0.0	0.0	1.1	2.9	4.0	3.4	3.4	2.9	2.3	1.1
87.5°	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6
2.5°	1330.7	1329.5	1303.3	1288.5	1261.7	1238.3	1219.5	1205.8	1205.8	1197.3	1189.3
5°	1293.0	1283.3	1227.5	1191.6	1140.8	1103.2	1077.5	1057.6	1026.2	1034.8	1001.1
7.5°	1246.3	1221.8	1147.7	1092.9	1022.8	969.2	914.5	866.0	819.3	798.2	809.6
10°	1196.1	1153.4	1053.6	966.9	879.7	781.6	717.8	640.2	592.4	589.5	577.0
12.5°	1143.1	1094.6	973.2	853.5	738.9	620.9	523.4	451.0	418.5	382.6	389.4
15°	1103.2	1031.3	883.7	739.4	587.2	468.1	370.0	314.1	283.3	274.8	271.9
17.5°	1059.9	982.9	792.5	618.0	460.7	336.9	266.2	239.5	227.5	227.5	225.8
20°	1014.8	928.2	701.8	505.1	345.5	251.4	213.2	204.7	204.1	203.5	203.5
22.5°	985.2	865.4	619.7	401.4	260.5	201.3	185.3	181.9	184.1	191.0	191.0
25°	953.8	805.0	529.1	309.6	201.8	172.7	163.6	165.9	171.6	177.9	175.6
27.5°	921.9	765.7	443.6	242.9	165.3	151.1	147.7	152.8	159.1	164.8	163.1
30°	914.5	723.5	362.6	184.1	142.0	131.7	134.0	138.5	144.8	147.1	149.4
32.5°	925.9	690.4	297.0	151.1	123.7	120.9	120.9	123.1	127.1	132.3	130.6
35°	958.4	671.6	234.9	131.1	113.5	110.6	110.0	112.3	114.6	116.3	114.6
37.5°	1008.0	656.8	192.1	116.3	106.6	102.1	100.9	100.3	102.6	103.2	104.3
40°	1071.3	664.8	163.1	107.2	99.8	94.6	91.2	91.2	91.2	92.9	93.5
42.5°	1139.7	675.6	140.8	102.1	93.5	87.2	83.8	82.7	83.8	86.1	85.5
45°	1211.5	696.7	126.6	94.1	87.8	79.8	75.3	74.1	77.0	81.5	81.0
47.5°	1278.8	726.9	115.7	88.9	82.1	74.7	69.0	67.8	73.0	79.2	79.8
50°	1346.1	779.4	111.7	84.9	78.1	69.6	64.4	63.3	69.0	77.0	78.7
52.5°	1423.6	835.8	108.9	79.8	73.5	65.6	59.9	58.7	65.0	75.3	75.8
55°	1474.3	883.7	106.6	70.7	65.0	59.3	54.7	54.2	61.0	70.1	72.4
57.5°	1415.0	817.0	98.6	61.6	55.3	52.5	48.5	48.5	54.2	62.7	64.4
60°	1073.0	537.6	70.1	49.6	46.7	45.0	43.3	43.3	47.9	54.2	54.7
62.5°	628.3	289.6	45.0	39.9	39.9	38.2	35.3	35.3	39.9	43.3	43.9
65°	186.4	92.9	36.5	34.2	33.6	30.8	27.9	27.4	30.8	32.5	31.9
67.5°	53.6	42.8	30.2	28.5	27.9	23.4	21.7	21.1	21.7	20.5	20.0
70°	31.9	29.1	23.4	23.9	21.1	17.1	15.4	14.8	13.7	12.0	10.8
72.5°	17.7	17.7	17.1	18.2	14.8	11.4	9.7	8.0	6.3	5.1	4.6
75°	10.8	11.4	12.0	12.5	9.7	7.4	6.3	4.0	2.3	1.1	1.1
77.5°	7.4	8.0	8.6	9.1	8.0	6.8	5.1	2.9	0.6	0.0	0.0
80°	5.7	6.3	7.4	8.0	8.6	9.1	6.8	2.9	0.6	0.0	0.0
82.5°	6.3	6.8	8.6	8.0	8.0	8.0	6.3	2.9	0.6	0.0	0.0
85°	1.1	1.7	2.9	2.9	4.0	5.1	4.0	1.1	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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)