

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: P647218

Luminaire Tested: **GALN-SA1D-835-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647218
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-SA1D-835-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1200mA 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: 3583.8 lumens
Efficiency: N/A
Efficacy: 55.1 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

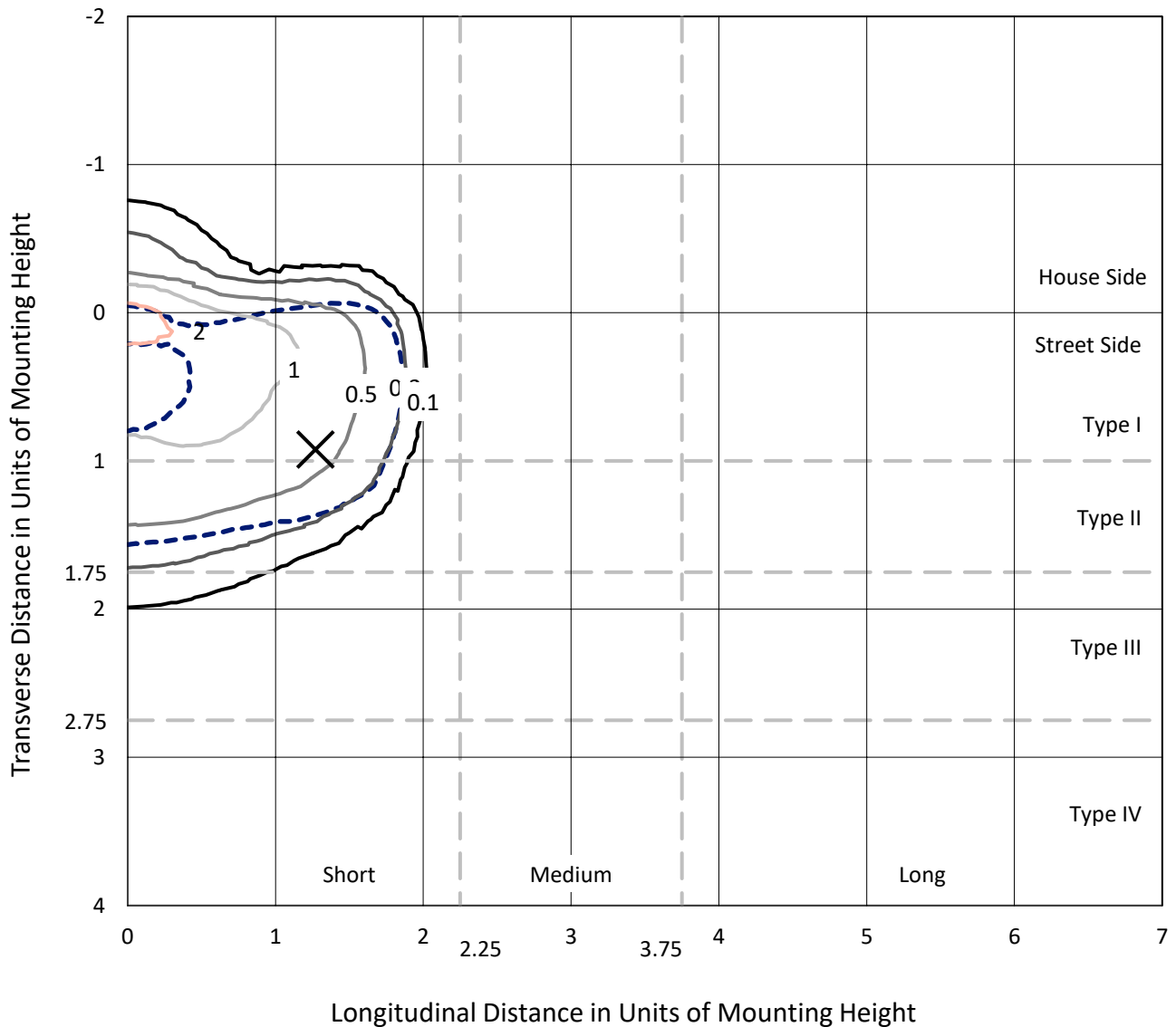
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

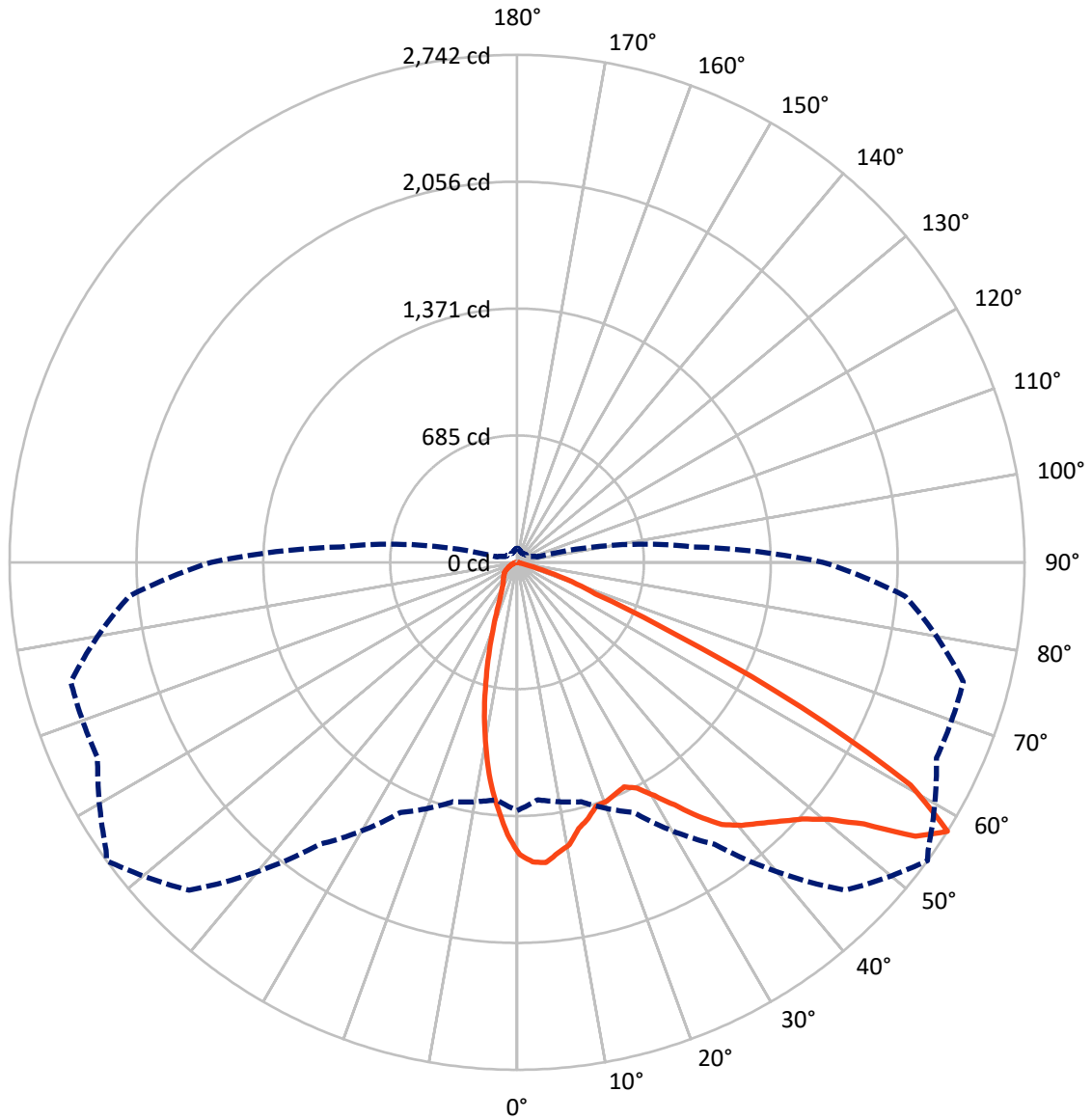
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	506.5	0.0	506.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	3077.3	0.0	3077.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	3583.8	0.0	3583.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.1	3.7
10°-20°	282.1	7.9
20°-30°	373.8	10.4
30°-40°	543.2	15.2
40°-50°	805.5	22.5
50°-60°	1007.2	28.1
60°-70°	397.3	11.1
70°-80°	39.6	1.1
80°-90°	3.1	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°	3583.8	100.0
0°-180°	3583.8	100.0

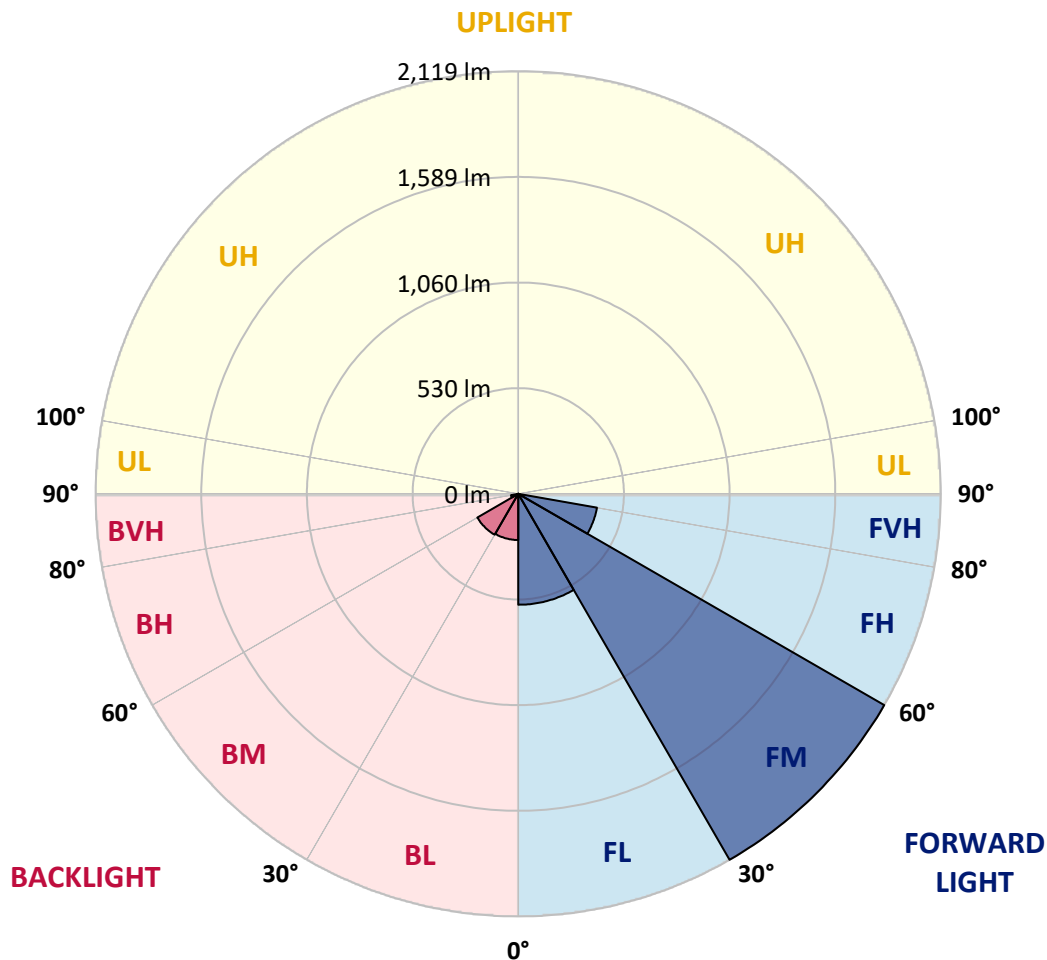


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	556.3	15.5			
FM (30°-60°)	2119.1	59.1			
FH (60°-80°)	400.5	11.2			G0/660
FVH (80°-90°)	1.4	0.0			G0/10
BL (0°-30°)	231.6	6.5	B1/500		
BM (30°-60°)	236.8	6.6	B1/1000		
BH (60°-80°)	36.3	1.0	B0/110		G0/110
BVH (80°-90°)	1.7	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°	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7
2.5°	1670.7	1653.4	1654.7	1648.7	1640.7	1646.6	1620.7	1626.7	1626.1	1590.7	1567.4
5°	1628.7	1647.4	1628.0	1644.0	1628.7	1645.3	1629.3	1617.4	1598.0	1572.0	1528.7
7.5°	1557.4	1539.4	1544.7	1564.7	1568.0	1605.4	1585.3	1600.7	1592.7	1541.4	1482.1
10°	1414.1	1410.1	1436.7	1463.4	1496.1	1536.1	1551.4	1542.7	1536.7	1517.4	1438.1
12.5°	1304.2	1315.4	1314.8	1358.8	1414.1	1436.7	1476.7	1475.4	1508.8	1472.7	1396.8
15°	1199.6	1205.5	1233.5	1260.9	1322.2	1386.8	1436.1	1442.8	1482.8	1457.4	1364.8
17.5°	1135.6	1126.9	1148.9	1181.5	1244.2	1328.8	1383.5	1399.5	1454.1	1448.8	1328.1
20°	1072.2	1072.2	1090.2	1128.9	1186.2	1281.5	1378.8	1374.1	1454.1	1438.8	1288.8
22.5°	1050.9	1061.6	1066.2	1095.6	1163.5	1245.5	1358.8	1367.4	1465.4	1434.1	1271.5
25°	1080.2	1066.2	1067.5	1090.9	1154.8	1228.2	1344.1	1363.4	1486.1	1457.4	1257.5
27.5°	1084.9	1098.9	1102.9	1118.9	1161.5	1233.5	1380.8	1420.1	1537.4	1512.1	1261.5
30°	1125.6	1139.6	1138.9	1166.2	1195.6	1276.8	1462.7	1470.8	1643.4	1580.7	1286.2
32.5°	1174.9	1189.5	1194.2	1226.2	1249.5	1356.2	1562.7	1583.4	1745.3	1688.7	1350.8
35°	1236.2	1230.9	1252.2	1284.1	1334.2	1472.1	1684.7	1719.3	1855.2	1828.6	1417.5
37.5°	1312.8	1306.1	1326.8	1378.8	1446.7	1609.4	1797.3	1819.9	1935.3	1958.6	1540.7
40°	1366.8	1369.5	1432.1	1502.1	1574.1	1740.0	1868.6	1890.6	1991.2	2079.8	1634.0
42.5°	1456.8	1473.4	1548.7	1634.0	1709.3	1837.9	1926.6	1947.9	2017.2	2177.1	1759.9
45°	1587.4	1580.0	1663.3	1758.6	1841.9	1939.9	1995.2	1987.9	2032.5	2273.8	1839.3
47.5°	1755.3	1756.7	1811.9	1893.2	1979.9	2028.5	2071.8	2045.8	2064.5	2375.7	1945.2
50°	1870.0	1879.9	1924.5	2007.8	2051.2	2125.8	2181.1	2165.2	2159.1	2437.0	2011.8
52.5°	1899.2	1929.2	1953.2	2057.2	2158.5	2276.4	2347.0	2381.0	2274.5	2457.7	2096.5
55°	1678.0	1704.7	1789.3	1931.9	2199.1	2515.0	2612.3	2612.9	2425.0	2549.7	2155.8
57.5°	1341.4	1287.5	1339.5	1490.8	1859.2	2505.0	2741.6	2710.3	2500.4	2495.7	2104.5
60°	927.6	914.3	917.6	977.6	1286.9	1992.6	2443.0	2483.7	2302.4	2163.1	1666.0
62.5°	735.1	723.7	709.1	702.4	799.1	1241.5	1723.3	1780.6	1610.0	1402.7	987.6
65°	575.7	569.1	571.1	597.7	597.1	704.4	942.3	919.0	735.7	543.8	310.5
67.5°	388.5	398.5	406.5	487.1	528.4	490.5	455.2	441.8	239.2	100.6	68.7
70°	218.6	219.9	228.6	304.5	401.2	380.5	313.9	313.9	119.3	36.6	39.3
72.5°	119.3	115.3	107.3	131.3	178.6	181.3	139.9	121.9	35.3	24.0	22.0
75°	57.9	57.3	49.3	40.6	38.7	32.0	24.7	22.6	16.0	15.3	13.3
77.5°	12.0	11.4	6.0	6.0	6.7	7.4	9.3	9.3	11.4	11.4	9.3
80°	0.0	0.0	0.7	2.7	4.7	6.7	8.0	8.0	9.3	9.3	7.4
82.5°	0.0	0.0	0.7	2.0	4.0	6.0	7.4	8.0	9.3	10.0	8.0
85°	0.0	0.0	0.0	1.3	3.4	4.7	4.0	4.0	3.4	2.7	1.3
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°	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7	1578.7
2.5°	1555.4	1554.0	1523.4	1506.1	1474.8	1447.5	1425.5	1409.5	1409.5	1399.5	1390.1
5°	1511.4	1500.1	1434.8	1392.8	1333.4	1289.5	1259.5	1236.2	1199.6	1209.5	1170.2
7.5°	1456.8	1428.1	1341.4	1277.5	1195.6	1132.9	1068.9	1012.3	957.6	932.9	946.3
10°	1398.1	1348.2	1231.5	1130.2	1028.2	913.6	839.0	748.4	692.4	689.0	674.4
12.5°	1336.1	1279.5	1137.5	997.6	863.6	725.7	611.8	527.1	489.1	447.2	455.2
15°	1289.5	1205.5	1032.9	864.4	686.4	547.1	432.5	367.2	331.2	321.2	317.9
17.5°	1238.9	1148.9	926.3	722.4	538.5	393.8	311.2	279.9	265.9	265.9	263.9
20°	1186.2	1084.9	820.3	590.5	403.9	293.9	249.2	239.2	238.6	237.9	237.9
22.5°	1151.6	1011.6	724.4	469.2	304.5	235.2	216.6	212.6	215.2	223.2	223.2
25°	1114.9	940.9	618.4	361.8	235.9	201.9	191.3	193.9	200.6	207.9	205.2
27.5°	1077.6	895.0	518.4	283.9	193.2	176.6	172.6	178.6	186.0	192.6	190.6
30°	1068.9	845.6	423.8	215.2	165.9	153.9	156.6	161.9	169.3	171.9	174.6
32.5°	1082.3	807.0	347.2	176.6	144.6	141.3	141.3	143.9	148.6	154.6	152.6
35°	1120.2	785.0	274.5	153.3	132.6	129.3	128.6	131.3	134.0	135.9	134.0
37.5°	1178.2	767.7	224.6	135.9	124.7	119.3	117.9	117.3	120.0	120.6	121.9
40°	1252.2	777.0	190.6	125.3	116.6	110.6	106.6	106.6	106.6	108.6	109.3
42.5°	1332.1	789.7	164.6	119.3	109.3	101.9	98.0	96.6	98.0	100.6	100.0
45°	1416.1	814.3	147.9	109.9	102.7	93.3	87.9	86.6	90.0	95.3	94.7
47.5°	1494.7	849.6	135.3	104.0	96.0	87.3	80.6	79.3	85.3	92.6	93.3
50°	1573.4	910.9	130.6	99.3	91.3	81.3	75.3	74.0	80.6	90.0	92.0
52.5°	1664.0	976.9	127.3	93.3	86.0	76.7	70.0	68.7	76.0	87.9	88.6
55°	1723.3	1032.9	124.7	82.6	76.0	69.3	64.0	63.3	71.3	82.0	84.6
57.5°	1654.0	954.9	115.3	72.0	64.7	61.3	56.6	56.6	63.3	73.3	75.3
60°	1254.1	628.4	82.0	57.9	54.7	52.6	50.7	50.7	56.0	63.3	64.0
62.5°	734.4	338.6	52.6	46.7	46.7	44.6	41.3	41.3	46.7	50.7	51.3
65°	217.9	108.6	42.7	40.0	39.3	36.0	32.7	32.0	36.0	38.0	37.3
67.5°	62.6	50.0	35.3	33.4	32.7	27.3	25.3	24.7	25.3	24.0	23.3
70°	37.3	34.0	27.3	28.0	24.7	20.0	18.0	17.3	16.0	14.0	12.7
72.5°	20.7	20.7	20.0	21.3	17.3	13.3	11.4	9.3	7.4	6.0	5.3
75°	12.7	13.3	14.0	14.6	11.4	8.7	7.4	4.7	2.7	1.3	1.3
77.5°	8.7	9.3	10.0	10.6	9.3	8.0	6.0	3.4	0.7	0.0	0.0
80°	6.7	7.4	8.7	9.3	10.0	10.6	8.0	3.4	0.7	0.0	0.0
82.5°	7.4	8.0	10.0	9.3	9.3	9.3	7.4	3.4	0.7	0.0	0.0
85°	1.3	2.0	3.4	3.4	4.7	6.0	4.7	1.3	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)