

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: P527141

Luminaire Tested: **GALN-SA2A-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527141
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-SA2A-827-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH 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: 3954 lumens
Efficiency: N/A
Efficacy: 62.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

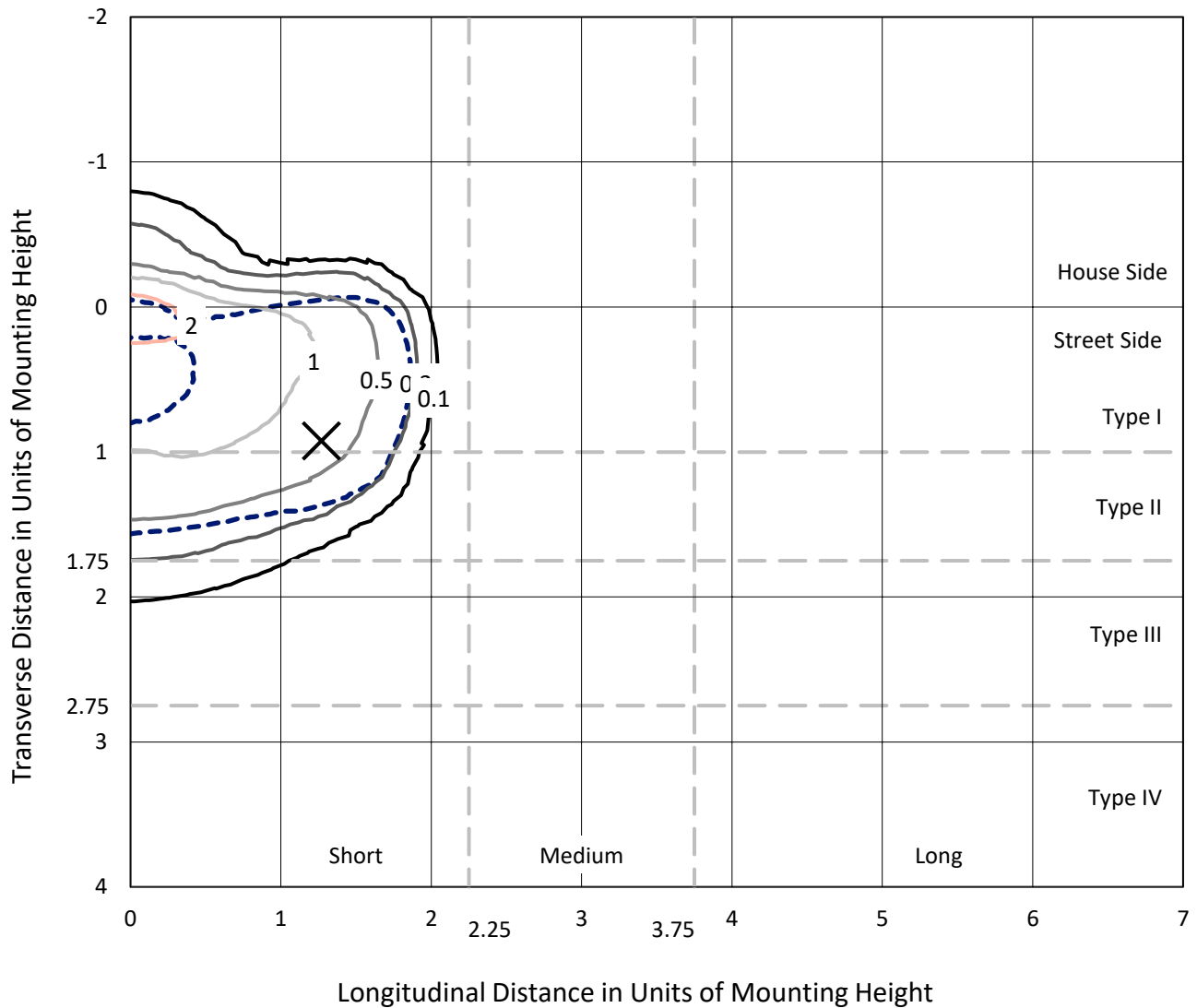
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

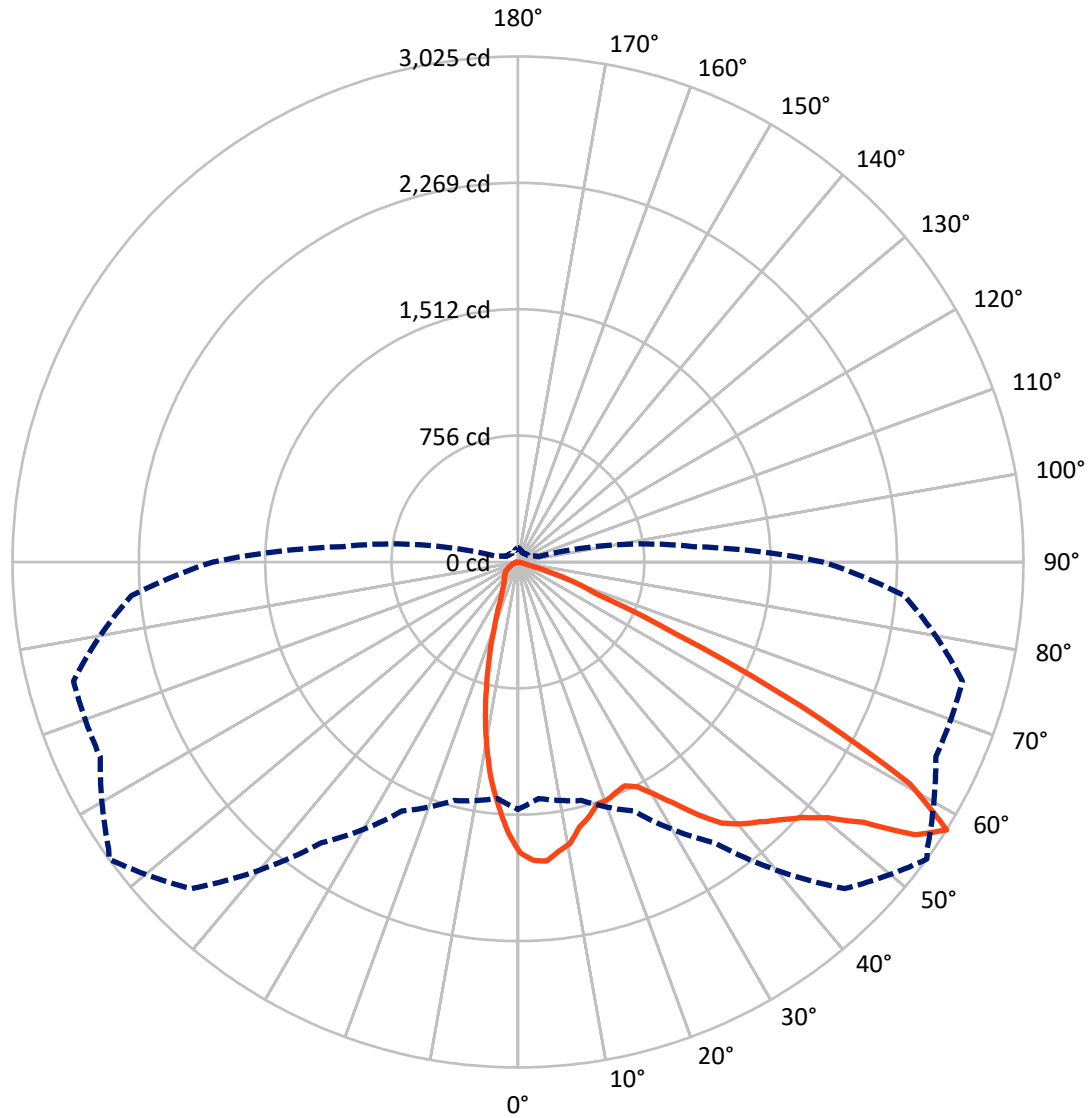
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	558.8	0.0	558.8
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	3395.2	0.0	3395.2
	% Fixture	85.9	0.0	85.9
Total	Lumens	3954.0	0.0	3954.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.8	3.7
10°-20°	311.2	7.9
20°-30°	412.4	10.4
30°-40°	599.3	15.2
40°-50°	888.7	22.5
50°-60°	1111.3	28.1
60°-70°	438.3	11.1
70°-80°	43.6	1.1
80°-90°	3.4	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°	3954.0	100.0
0°-180°	3954.0	100.0

Coefficient of Utilization

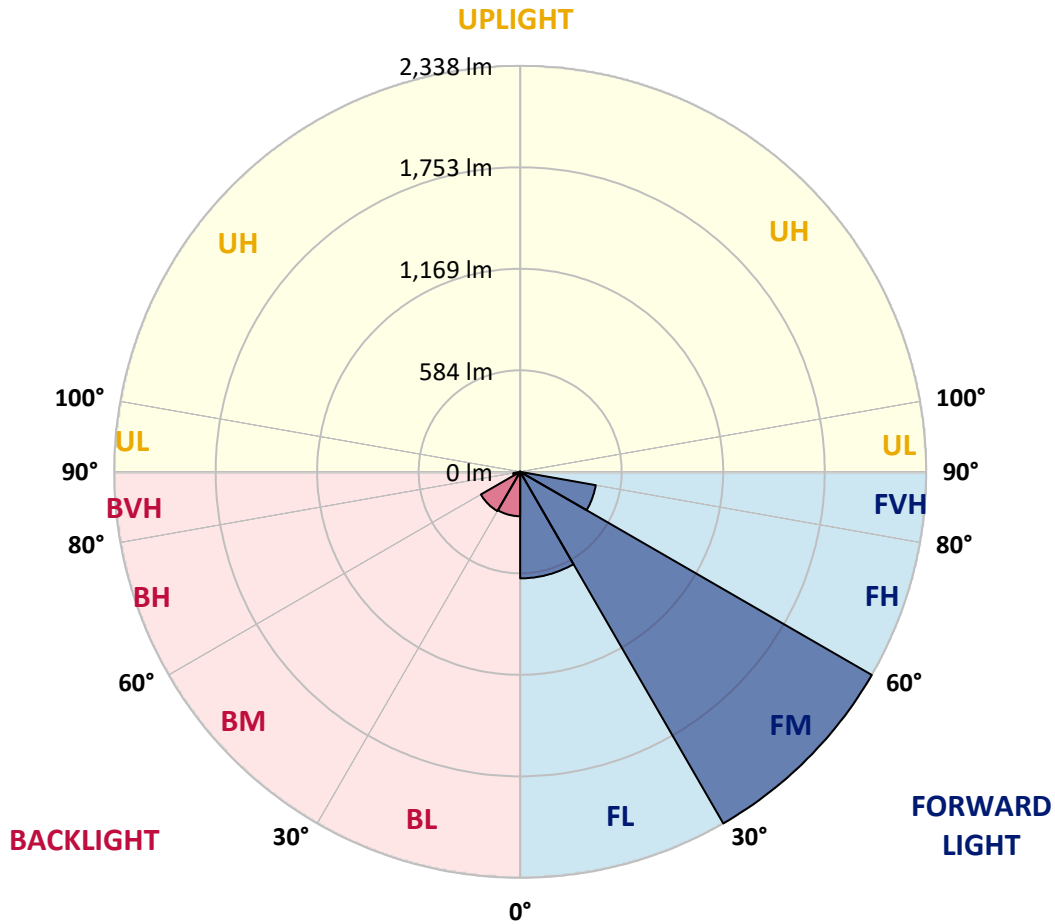


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	613.8	15.5			
FM (30°-60°)	2338.0	59.1			
FH (60°-80°)	441.9	11.2			G0/660
FVH (80°-90°)	1.5	0.0			G0/10
BL (0°-30°)	255.6	6.5	B1/500		
BM (30°-60°)	261.3	6.6	B1/1000		
BH (60°-80°)	40.1	1.0	B0/110		G0/110
BVH (80°-90°)	1.9	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°	1741.8	1741.8	1741.8	1741.8	1741.8	1741.8	1741.8	1741.8	1741.8	1741.8	1741.8
2.5°	1843.3	1824.1	1825.6	1819.0	1810.2	1816.8	1788.1	1794.7	1794.0	1755.0	1729.3
5°	1796.9	1817.5	1796.2	1813.8	1796.9	1815.3	1797.7	1784.4	1763.1	1734.4	1686.6
7.5°	1718.3	1698.4	1704.3	1726.4	1730.0	1771.2	1749.1	1766.1	1757.2	1700.6	1635.2
10°	1560.2	1555.8	1585.2	1614.6	1650.6	1694.7	1711.6	1702.1	1695.5	1674.1	1586.7
12.5°	1438.9	1451.4	1450.6	1499.2	1560.2	1585.2	1629.3	1627.8	1664.6	1624.9	1541.1
15°	1323.4	1330.1	1360.9	1391.1	1458.7	1530.0	1584.4	1591.8	1635.9	1608.0	1505.8
17.5°	1252.9	1243.3	1267.6	1303.6	1372.7	1466.1	1526.4	1544.0	1604.3	1598.4	1465.3
20°	1183.0	1183.0	1202.9	1245.5	1308.7	1413.9	1521.2	1516.1	1604.3	1587.4	1422.0
22.5°	1159.5	1171.2	1176.4	1208.7	1283.7	1374.2	1499.2	1508.7	1616.8	1582.2	1402.8
25°	1191.8	1176.4	1177.9	1203.6	1274.2	1355.1	1483.0	1504.3	1639.6	1608.0	1387.4
27.5°	1197.0	1212.4	1216.8	1234.5	1281.5	1360.9	1523.4	1566.8	1696.2	1668.3	1391.8
30°	1241.8	1257.3	1256.5	1286.7	1319.0	1408.7	1613.9	1622.7	1813.1	1744.0	1419.0
32.5°	1296.2	1312.4	1317.6	1352.8	1378.6	1496.2	1724.1	1746.9	1925.6	1863.1	1490.3
35°	1363.9	1358.0	1381.5	1416.8	1472.0	1624.2	1858.7	1896.9	2046.9	2017.5	1563.9
37.5°	1448.4	1441.1	1463.9	1521.2	1596.2	1775.6	1982.9	2007.9	2135.1	2160.9	1699.9
40°	1508.0	1510.9	1580.0	1657.2	1736.6	1919.7	2061.6	2085.9	2196.9	2294.7	1802.8
42.5°	1607.2	1625.6	1708.7	1802.8	1885.9	2027.8	2125.6	2149.1	2225.6	2402.0	1941.8
45°	1751.3	1743.3	1835.2	1940.3	2032.2	2140.3	2201.3	2193.2	2242.5	2508.6	2029.3
47.5°	1936.6	1938.1	1999.1	2088.8	2184.4	2238.1	2285.9	2257.2	2277.8	2621.1	2146.2
50°	2063.1	2074.1	2123.4	2215.3	2263.1	2345.4	2406.4	2388.8	2382.2	2688.8	2219.7
52.5°	2095.4	2128.5	2155.0	2269.7	2381.5	2511.6	2589.5	2627.0	2509.4	2711.6	2313.1
55°	1851.3	1880.8	1974.1	2131.5	2426.3	2774.8	2882.2	2882.9	2675.5	2813.0	2378.5
57.5°	1480.0	1420.5	1477.8	1644.7	2051.3	2763.8	3024.8	2990.2	2758.6	2753.5	2321.9
60°	1023.5	1008.8	1012.4	1078.6	1419.8	2198.4	2695.4	2740.2	2540.3	2386.6	1838.1
62.5°	811.0	798.5	782.3	774.9	881.6	1369.8	1901.3	1964.6	1776.3	1547.7	1089.6
65°	635.2	627.9	630.1	659.5	658.8	777.2	1039.6	1013.9	811.7	600.0	342.6
67.5°	428.6	439.7	448.5	537.5	583.0	541.1	502.2	487.5	264.0	111.0	75.7
70°	241.2	242.6	252.2	336.0	442.6	419.8	346.3	346.3	131.6	40.4	43.4
72.5°	131.6	127.2	118.4	144.8	197.0	200.0	154.4	134.5	39.0	26.5	24.3
75°	64.0	63.2	54.4	44.8	42.6	35.3	27.2	25.0	17.6	16.9	14.7
77.5°	13.2	12.5	6.6	6.6	7.4	8.1	10.3	10.3	12.5	12.5	10.3
80°	0.0	0.0	0.7	2.9	5.1	7.4	8.8	8.8	10.3	10.3	8.1
82.5°	0.0	0.0	0.7	2.2	4.4	6.6	8.1	8.8	10.3	11.0	8.8
85°	0.0	0.0	0.0	1.5	3.7	5.1	4.4	4.4	3.7	2.9	1.5
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°	1741.8	1741.8	1741.8	1741.8	1741.8	1741.8	1741.8	1741.8	1741.8	1741.8	1741.8
2.5°	1716.1	1714.6	1680.8	1661.6	1627.1	1596.9	1572.7	1555.0	1555.0	1544.0	1533.7
5°	1667.5	1655.0	1583.0	1536.7	1471.2	1422.7	1389.6	1363.9	1323.4	1334.5	1291.1
7.5°	1607.2	1575.6	1480.0	1409.5	1319.0	1249.9	1179.3	1116.8	1056.5	1029.3	1044.0
10°	1542.5	1487.4	1358.7	1247.0	1134.5	1008.0	925.7	825.7	763.9	760.2	744.1
12.5°	1474.2	1411.7	1255.1	1100.7	952.9	800.7	675.0	581.6	539.7	493.3	502.2
15°	1422.7	1330.1	1139.6	953.6	757.3	603.6	477.2	405.1	365.4	354.4	350.7
17.5°	1366.8	1267.6	1022.0	797.0	594.1	434.5	343.4	308.8	293.4	293.4	291.2
20°	1308.7	1197.0	905.1	651.4	445.6	324.2	275.0	264.0	263.2	262.5	262.5
22.5°	1270.5	1116.1	799.2	517.6	336.0	259.5	239.0	234.5	237.5	246.3	246.3
25°	1230.1	1038.2	682.3	399.2	260.3	222.8	211.0	214.0	221.3	229.4	226.5
27.5°	1188.9	987.4	572.0	313.2	213.2	194.8	190.4	197.0	205.1	212.5	210.3
30°	1179.3	933.0	467.6	237.5	183.1	169.8	172.8	178.7	186.8	189.7	192.6
32.5°	1194.0	890.4	383.1	194.8	159.5	155.9	155.9	158.8	164.0	170.6	168.4
35°	1235.9	866.1	302.9	169.1	146.3	142.6	141.9	144.8	147.8	150.0	147.8
37.5°	1299.9	847.0	247.8	150.0	137.5	131.6	130.1	129.4	132.3	133.1	134.5
40°	1381.5	857.3	210.3	138.2	128.7	122.1	117.6	117.6	117.6	119.8	120.6
42.5°	1469.8	871.3	181.6	131.6	120.6	112.5	108.1	106.6	108.1	111.0	110.3
45°	1562.4	898.5	163.2	121.3	113.2	102.9	97.1	95.6	99.3	105.1	104.4
47.5°	1649.1	937.4	149.3	114.7	105.9	96.3	89.0	87.5	94.1	102.2	102.9
50°	1735.9	1005.1	144.1	109.6	100.7	89.7	83.1	81.6	89.0	99.3	101.5
52.5°	1835.9	1077.9	140.4	102.9	94.8	84.6	77.2	75.7	83.8	97.1	97.8
55°	1901.3	1139.6	137.5	91.2	83.8	76.5	70.6	69.8	78.7	90.4	93.4
57.5°	1824.9	1053.6	127.2	79.4	71.3	67.6	62.5	62.5	69.8	80.9	83.1
60°	1383.7	693.3	90.4	64.0	60.3	58.1	55.9	55.9	61.8	69.8	70.6
62.5°	810.2	373.5	58.1	51.5	51.5	49.3	45.6	45.6	51.5	55.9	56.6
65°	240.4	119.8	47.1	44.1	43.4	39.7	36.0	35.3	39.7	41.9	41.2
67.5°	69.1	55.1	39.0	36.8	36.0	30.1	27.9	27.2	27.9	26.5	25.7
70°	41.2	37.5	30.1	30.9	27.2	22.1	19.9	19.1	17.6	15.4	14.0
72.5°	22.8	22.8	22.1	23.5	19.1	14.7	12.5	10.3	8.1	6.6	5.9
75°	14.0	14.7	15.4	16.2	12.5	9.6	8.1	5.1	2.9	1.5	1.5
77.5°	9.6	10.3	11.0	11.8	10.3	8.8	6.6	3.7	0.7	0.0	0.0
80°	7.4	8.1	9.6	10.3	11.0	11.8	8.8	3.7	0.7	0.0	0.0
82.5°	8.1	8.8	11.0	10.3	10.3	10.3	8.1	3.7	0.7	0.0	0.0
85°	1.5	2.2	3.7	3.7	5.1	6.6	5.1	1.5	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)