

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: P526355

Luminaire Tested: **GALN-SA1B-740-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526355
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-740-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4295 lumens
Efficiency: N/A
Efficacy: 97.6 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

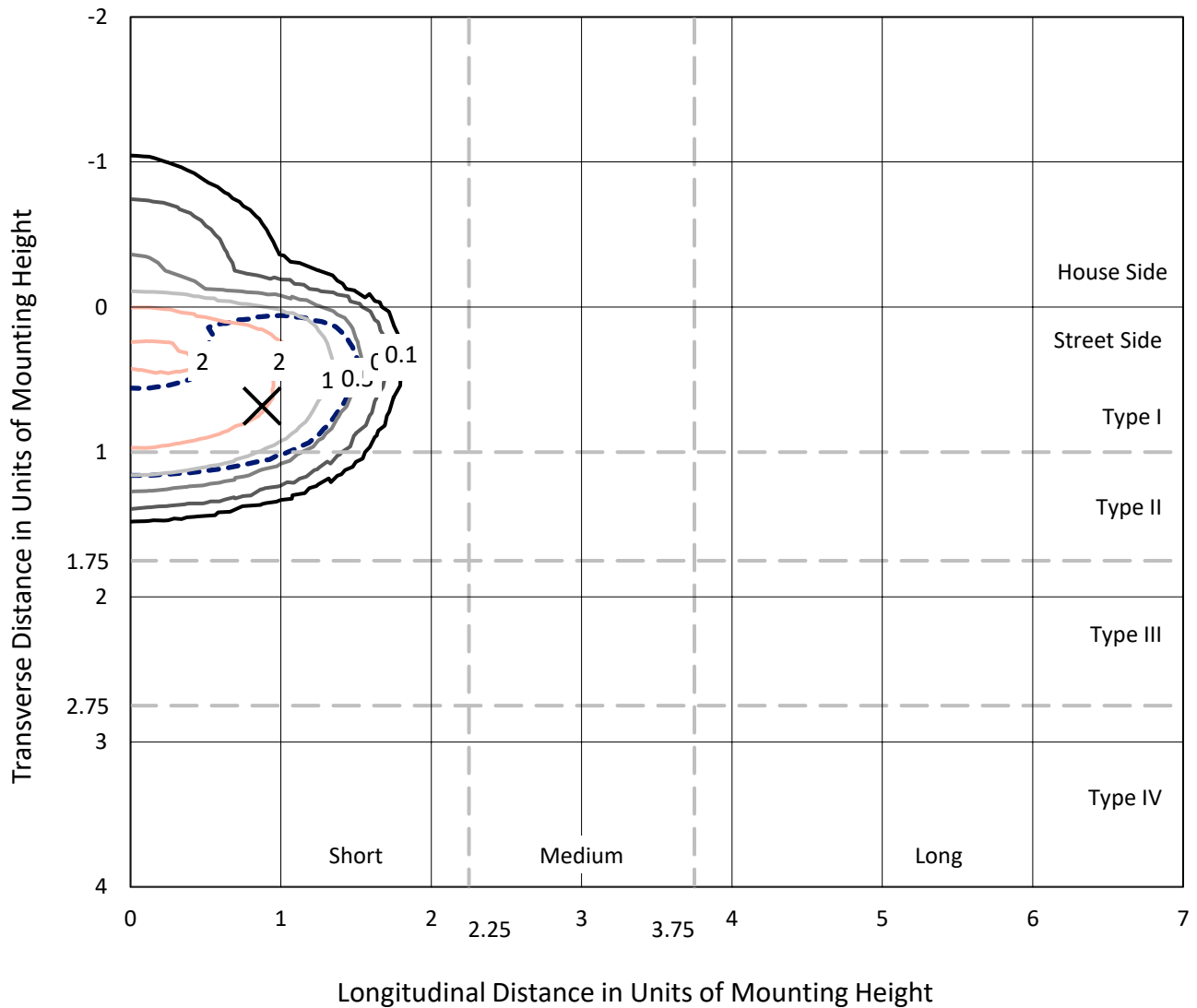
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

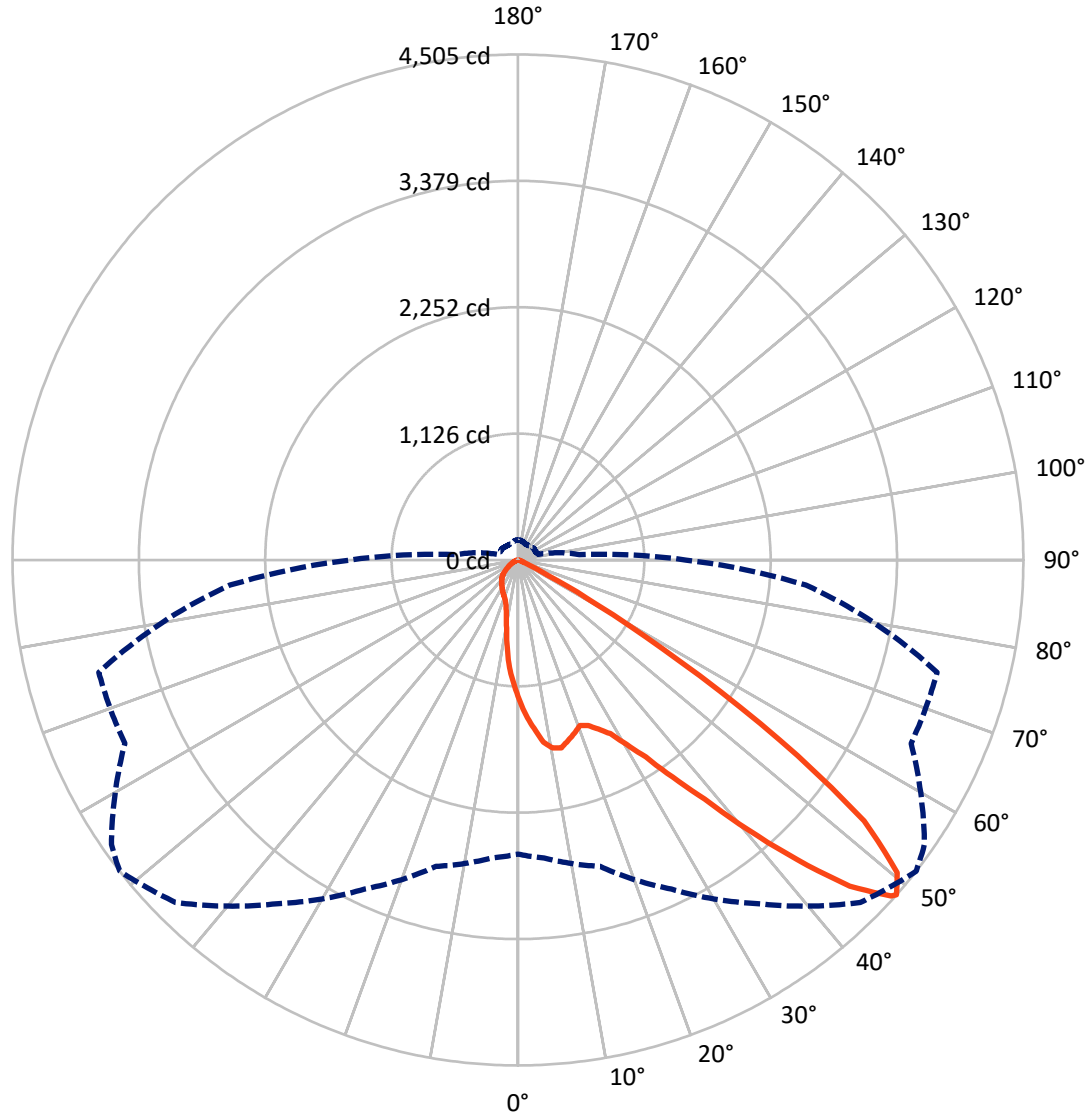
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	523.0	0.0	523.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	3772.1	0.0	3772.1
	% Fixture	87.8	0.0	87.8
Total	Lumens	4295.0	0.0	4295.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.5	2.6
10°-20°	296.7	6.9
20°-30°	506.6	11.8
30°-40°	932.8	21.7
40°-50°	1448.7	33.7
50°-60°	871.9	20.3
60°-70°	100.8	2.3
70°-80°	19.5	0.5
80°-90°	4.5	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°	4295.0	100.0
0°-180°	4295.0	100.0



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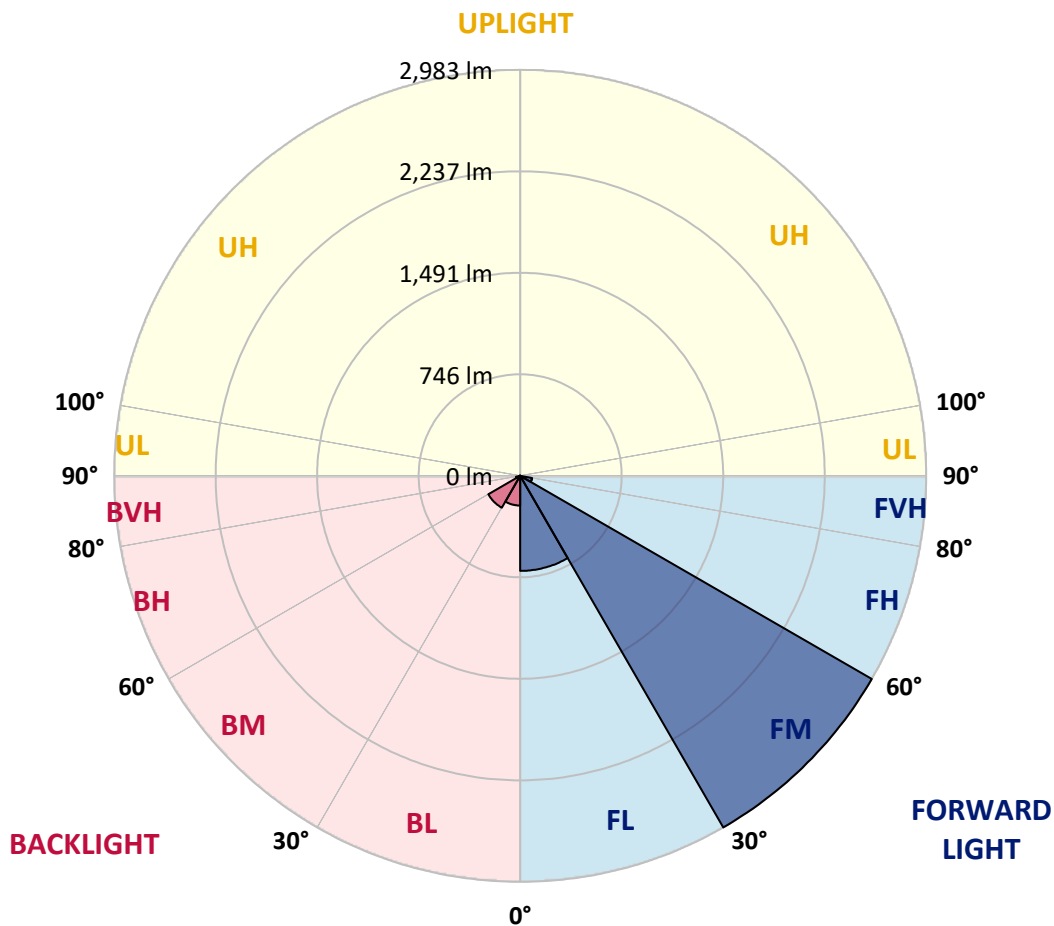
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	698.3	16.3			
FM (30°-60°)	2982.8	69.4			
FH (60°-80°)	88.8	2.1			G0/660
FVH (80°-90°)	2.2	0.1			G0/10
BL (0°-30°)	218.5	5.1	B1/500		
BM (30°-60°)	270.6	6.3	B1/1000		
BH (60°-80°)	31.6	0.7	B0/110		G0/110
BVH (80°-90°)	2.4	0.1			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°	52°	55°	65°	75°	85°
0°	1240.3	1240.3	1240.3	1240.3	1240.3	1240.3	1240.3	1240.3	1240.3	1240.3	1240.3
2.5°	1503.3	1468.9	1472.0	1449.4	1436.3	1415.0	1386.2	1380.6	1349.3	1306.7	1263.5
5°	1638.5	1630.4	1641.0	1608.5	1609.7	1574.7	1507.0	1508.3	1436.3	1366.8	1299.8
7.5°	1647.3	1628.5	1639.2	1668.0	1684.9	1678.6	1640.4	1607.2	1539.0	1436.9	1339.3
10°	1475.1	1510.8	1522.1	1569.7	1637.3	1708.7	1704.3	1706.2	1649.2	1515.8	1373.1
12.5°	1371.8	1348.0	1386.2	1415.0	1517.1	1655.4	1718.7	1732.4	1736.8	1592.2	1406.9
15°	1324.8	1324.8	1331.1	1339.3	1413.1	1540.9	1669.8	1709.9	1804.5	1692.4	1460.1
17.5°	1354.3	1353.0	1361.8	1344.9	1372.4	1470.7	1624.8	1670.5	1880.2	1790.7	1502.0
20°	1443.8	1448.2	1442.6	1393.7	1395.6	1469.5	1574.7	1646.7	1931.6	1875.8	1557.8
22.5°	1568.4	1570.9	1539.0	1485.8	1470.1	1506.4	1603.5	1658.6	1972.9	1977.9	1574.7
25°	1712.4	1702.4	1696.1	1621.0	1573.4	1604.7	1668.6	1700.5	1998.5	2065.5	1622.9
27.5°	1912.1	1892.1	1853.9	1786.9	1751.9	1707.4	1753.1	1805.7	2071.8	2188.3	1675.5
30°	2207.0	2189.5	2115.0	2028.6	1936.6	1892.7	1907.1	1935.9	2203.9	2330.4	1745.0
32.5°	2651.0	2614.0	2506.3	2341.7	2216.4	2095.6	2091.8	2122.5	2322.2	2527.0	1827.6
35°	3139.9	3128.7	2970.3	2800.6	2558.3	2371.7	2374.8	2391.1	2548.9	2784.9	1935.9
37.5°	3464.9	3526.9	3426.1	3243.9	3040.4	2773.7	2706.0	2711.7	2860.1	3090.5	2131.3
40°	3716.0	3663.4	3675.3	3632.7	3493.7	3312.1	3162.5	3133.1	3220.1	3428.6	2325.4
42.5°	3606.4	3608.9	3682.2	3783.0	3817.4	3804.2	3651.5	3595.8	3528.1	3705.3	2510.1
45°	3297.1	3361.6	3456.8	3723.5	3957.6	4177.4	4147.4	4054.7	3741.0	3924.5	2616.5
47.5°	2803.7	2801.2	2957.1	3304.0	3824.3	4338.9	4475.4	4410.3	3891.9	3900.0	2594.6
48°	2621.5	2666.6	2827.5	3235.7	3739.8	4315.2	4504.9	4422.8	3866.2	3867.5	2575.8
50°	1937.8	1929.7	2130.0	2630.9	3340.3	4054.7	4380.9	4444.8	3865.6	3702.8	2444.3
52.5°	1023.7	1058.8	1204.6	1654.2	2361.7	3318.4	3864.4	3963.9	3729.1	3433.6	2255.2
55°	435.1	393.2	505.3	746.9	1328.6	2217.1	2835.0	3056.7	3153.1	3038.5	1972.9
57.5°	155.3	169.7	195.3	281.1	558.5	1213.4	1690.5	1862.7	2184.5	2229.6	1344.3
60°	99.6	101.4	109.6	129.0	209.7	467.7	802.0	939.2	1085.0	1120.1	627.4
62.5°	77.0	77.6	81.4	84.5	99.6	181.6	301.2	356.9	370.7	318.7	164.7
65°	64.5	65.1	66.4	66.4	70.8	85.2	105.2	115.8	112.7	111.4	93.3
67.5°	49.5	50.7	53.2	53.2	55.7	52.0	58.2	62.0	70.1	85.2	79.5
70°	38.8	39.4	41.3	42.6	42.6	37.6	41.9	45.7	51.3	63.2	62.6
72.5°	30.1	31.3	32.6	32.6	30.7	25.7	30.1	33.2	36.9	43.8	42.6
75°	23.2	23.2	23.8	19.4	15.0	13.1	18.2	21.9	27.5	28.8	23.8
77.5°	6.3	6.9	6.3	5.6	6.3	9.4	11.9	13.8	17.5	17.5	15.7
80°	0.0	0.6	1.9	3.8	6.3	8.8	10.6	11.9	13.8	15.0	14.4
82.5°	0.0	0.6	1.9	3.8	5.6	6.9	9.4	10.0	11.3	13.1	13.1
85°	0.0	0.6	1.3	2.5	3.8	4.4	4.4	3.8	3.8	3.1	2.5
87.5°	0.0	0.0	0.6	1.3	1.3	1.9	1.9	1.9	1.9	1.9	1.9
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°	1240.3	1240.3	1240.3	1240.3	1240.3	1240.3	1240.3	1240.3	1240.3	1240.3	1240.3
2.5°	1246.6	1227.2	1197.7	1151.4	1107.0	1078.2	1050.6	1019.9	1003.0	1001.8	992.4
5°	1261.6	1217.8	1147.7	1068.1	983.0	909.7	835.9	787.6	744.4	720.7	716.3
7.5°	1269.8	1212.8	1099.4	966.1	820.8	701.2	618.6	557.9	534.1	516.5	515.9
10°	1286.7	1204.0	1027.4	830.8	651.2	530.3	473.3	445.8	432.6	427.6	420.1
12.5°	1299.2	1187.7	953.6	691.9	514.7	439.5	414.5	408.2	408.9	411.4	408.2
15°	1316.7	1173.3	854.0	567.9	432.0	395.7	395.7	397.0	405.7	407.0	406.3
17.5°	1315.5	1145.2	751.3	467.7	381.9	376.9	378.8	390.7	396.3	398.2	393.8
20°	1330.5	1118.9	645.5	399.5	353.8	361.3	373.8	376.9	383.8	385.1	380.0
22.5°	1326.1	1053.1	547.2	345.6	332.5	346.9	359.4	363.1	361.3	357.5	356.9
25°	1318.0	996.8	457.1	309.9	316.8	332.5	344.4	337.5	333.7	334.3	335.0
27.5°	1303.6	925.4	382.6	284.9	295.5	318.7	318.1	315.6	319.3	316.2	319.3
30°	1301.1	854.0	321.2	262.3	279.9	296.8	298.0	302.4	306.8	301.2	306.8
32.5°	1304.8	775.8	277.4	248.6	270.5	271.1	284.9	289.3	286.1	273.6	274.9
35°	1333.6	715.6	245.4	241.1	255.5	256.1	269.2	263.6	249.8	242.3	246.7
37.5°	1394.3	665.6	230.4	234.2	235.4	243.6	244.2	232.9	234.2	233.5	236.0
40°	1472.0	627.4	219.8	227.9	226.7	232.3	209.7	216.0	221.6	223.5	224.8
42.5°	1525.2	599.8	212.9	217.9	215.4	205.4	192.8	199.1	203.5	210.4	211.6
45°	1549.0	577.9	204.7	200.4	200.4	182.2	177.2	178.4	188.5	196.0	194.7
47.5°	1510.2	556.6	190.3	177.2	181.6	166.5	160.9	160.9	171.6	180.9	179.1
48°	1495.2	547.8	191.0	172.2	175.3	164.0	158.4	157.2	169.0	177.8	177.8
50°	1420.6	515.3	174.7	158.4	152.1	150.9	147.1	148.4	155.9	164.0	164.0
52.5°	1275.4	445.2	147.8	135.9	124.6	132.1	134.0	131.5	135.2	142.8	142.1
55°	1064.4	341.9	118.3	112.7	103.9	112.1	115.8	112.7	108.9	114.6	114.6
57.5°	681.8	184.1	94.5	95.8	87.0	95.2	98.3	90.8	83.9	88.3	87.7
60°	307.4	110.2	77.6	75.8	70.1	79.5	84.5	75.8	66.4	69.5	72.6
62.5°	115.2	78.3	58.9	57.6	56.3	65.1	67.6	60.7	51.3	53.2	53.8
65°	84.5	68.9	47.0	42.6	45.1	51.3	50.1	43.2	36.9	36.9	38.2
67.5°	72.0	60.1	38.2	33.2	33.2	33.8	31.3	27.5	25.7	26.9	28.2
70°	56.3	47.6	30.1	25.7	23.2	20.7	18.2	17.5	15.7	17.5	16.9
72.5°	36.3	31.9	23.2	19.4	17.5	14.4	11.9	11.3	9.4	8.8	8.8
75°	19.4	19.4	18.2	15.7	13.8	11.3	9.4	7.5	5.0	3.8	3.8
77.5°	13.8	15.0	16.3	15.0	12.5	9.4	7.5	5.0	2.5	1.3	1.3
80°	13.1	15.0	16.3	14.4	12.5	9.4	6.9	3.8	1.9	0.6	0.6
82.5°	11.9	13.8	15.0	13.1	11.3	8.1	6.3	3.8	1.9	0.6	0.6
85°	2.5	3.1	3.8	3.8	4.4	5.6	4.4	3.1	1.3	0.6	0.6
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.3	1.3	0.6	0.6	0.6
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)