

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: P526107

Luminaire Tested: **GALN-SA1A-735-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526107  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1A-735-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH  
BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

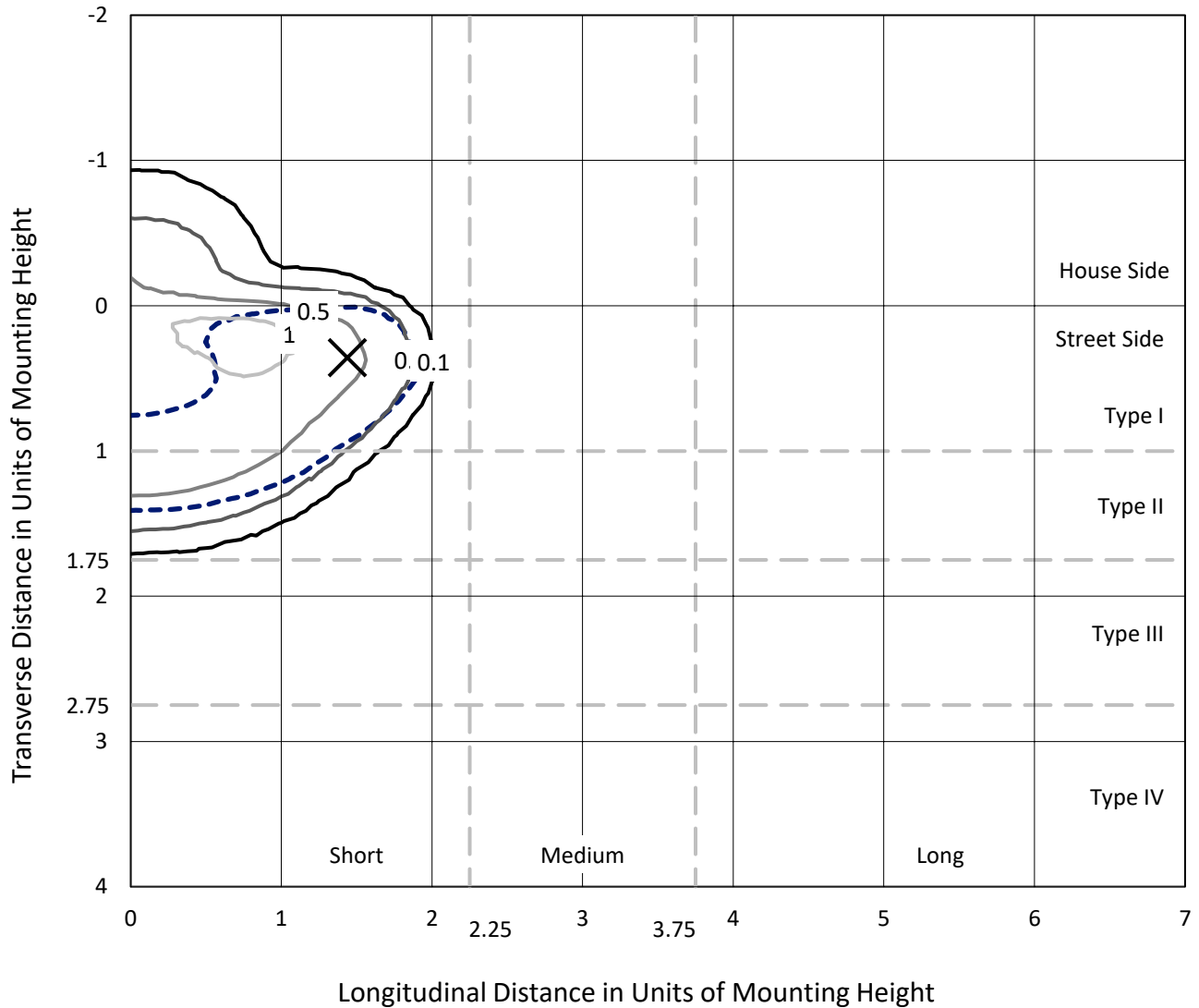
Lumens per Lamp: N/A  
Luminaire Lumens: 2543 lumens  
Efficiency: N/A  
Efficacy: 77.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

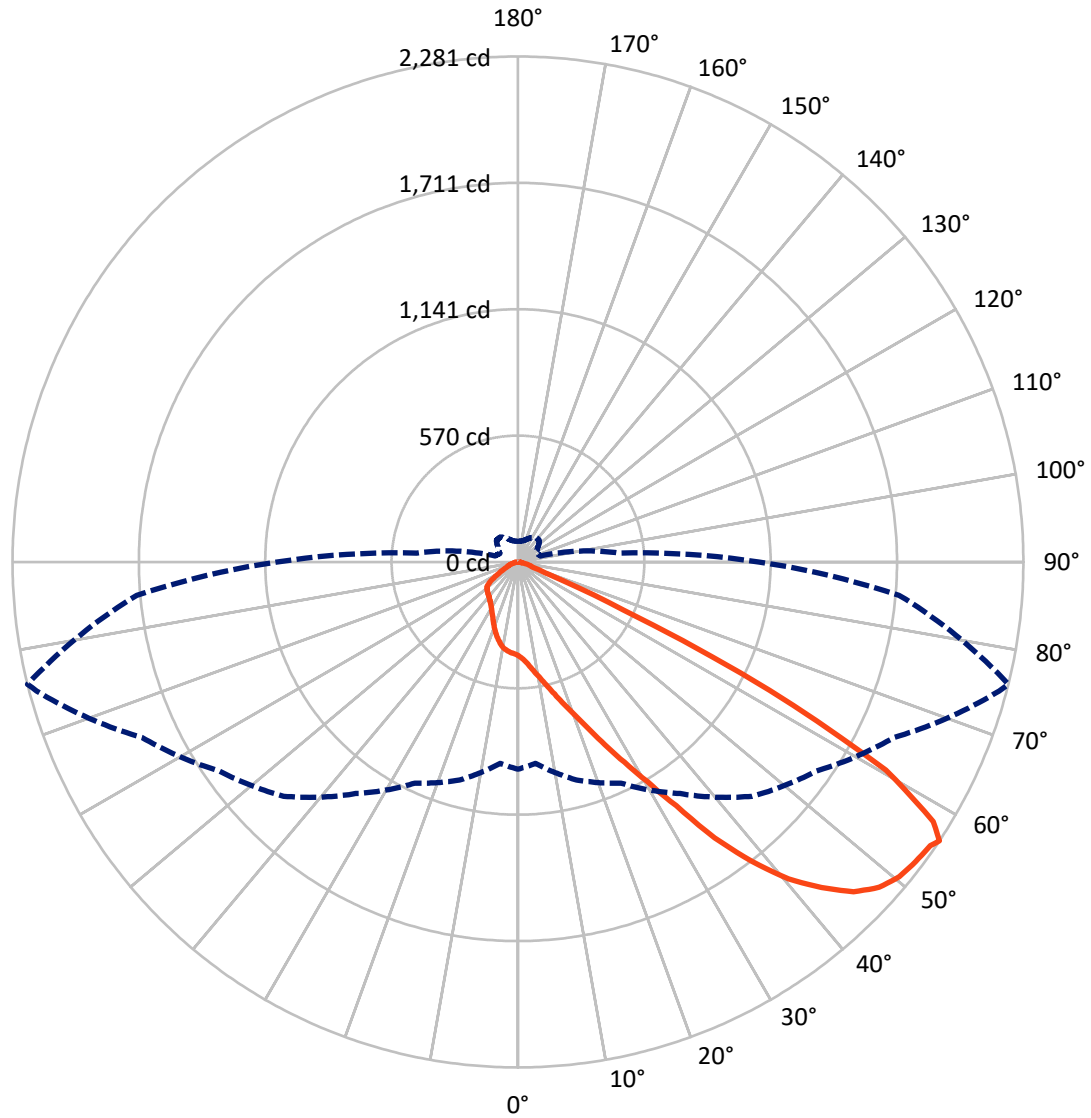
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	399.5	0.0	399.5
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	2143.5	0.0	2143.5
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	2543.0	0.0	2543.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.6	1.7
10°-20°	137.0	5.4
20°-30°	248.4	9.8
30°-40°	428.4	16.8
40°-50°	695.9	27.4
50°-60°	733.5	28.8
60°-70°	224.1	8.8
70°-80°	28.7	1.1
80°-90°	4.4	0.2
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°	2543.0	100.0
0°-180°	2543.0	100.0

**Coefficient of Utilization**



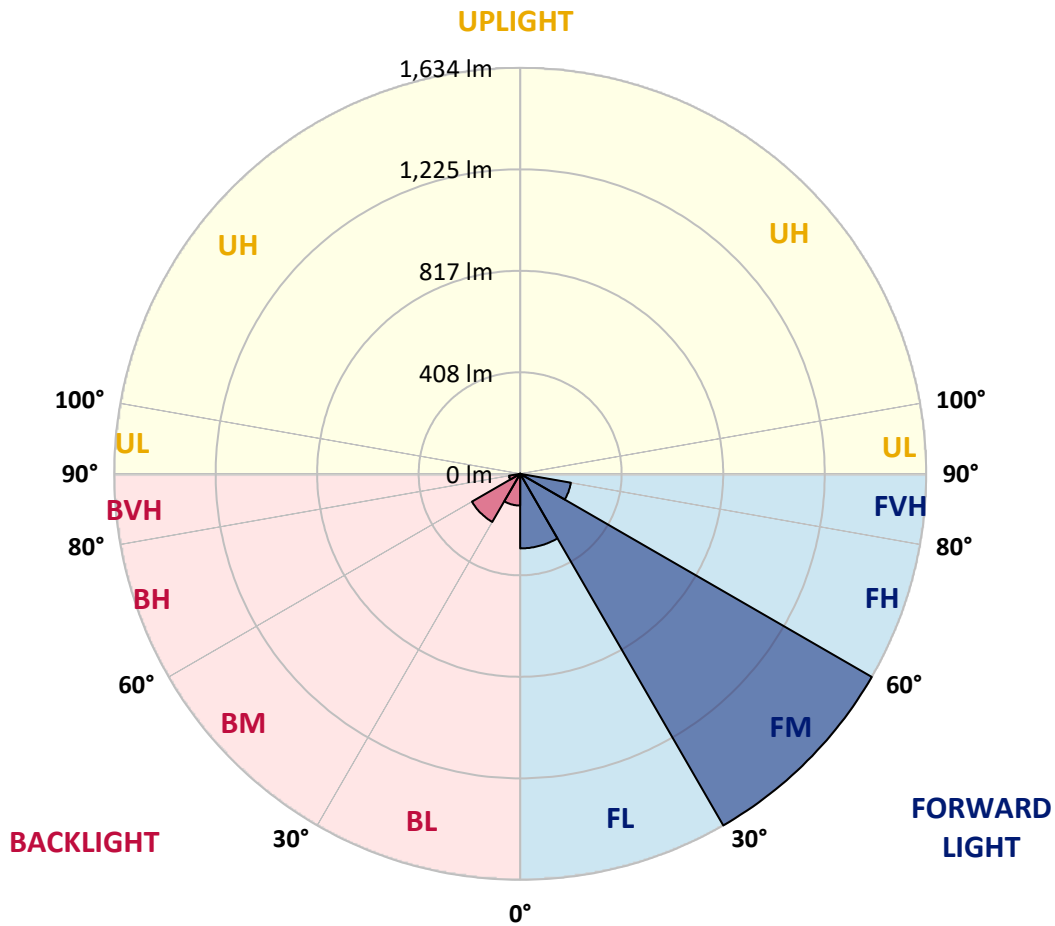
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	300.2	11.8			
FM (30°-60°)	1633.9	64.2			
FH (60°-80°)	207.3	8.2			G0/660
FVH (80°-90°)	2.1	0.1			G0/10
BL (0°-30°)	127.8	5.0	B1/500		
BM (30°-60°)	223.9	8.8	B1/1000		
BH (60°-80°)	45.6	1.8	B0/110		G0/110
BVH (80°-90°)	2.2	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°	55°	65°	75°	76°	85°
0°	423.3	423.3	423.3	423.3	423.3	423.3	423.3	423.3	423.3	423.3	423.3
2.5°	487.5	476.3	476.7	475.8	474.4	469.2	453.8	451.4	441.1	438.3	428.9
5°	546.1	536.3	541.9	533.4	525.5	520.8	495.5	483.8	467.3	461.3	448.1
7.5°	582.7	578.0	576.1	576.6	569.1	557.4	546.1	520.3	498.3	493.6	465.9
10°	600.5	597.7	600.5	599.1	602.4	603.8	584.1	568.6	536.3	528.3	485.2
12.5°	604.7	610.3	612.7	618.8	626.7	640.3	638.9	617.8	574.7	569.5	514.7
15°	615.0	619.7	617.4	627.2	642.2	665.2	677.4	674.1	627.7	618.3	548.9
17.5°	624.4	615.9	623.9	643.6	658.6	693.8	723.3	736.9	685.3	674.5	580.3
20°	637.0	634.7	633.3	643.1	669.9	716.7	775.3	800.2	750.0	738.8	625.3
22.5°	675.5	675.9	675.0	660.5	679.7	732.7	820.8	882.2	827.4	818.0	676.4
25°	726.1	720.0	715.3	703.6	701.3	747.2	866.7	982.5	920.2	913.6	731.7
27.5°	779.5	779.5	765.5	754.7	739.7	783.3	908.9	1080.0	1032.2	1023.3	780.0
30°	837.7	840.9	839.1	816.1	806.7	822.7	952.0	1204.7	1160.6	1149.4	859.7
32.5°	923.4	916.4	924.4	905.2	877.5	891.6	1020.0	1316.3	1327.5	1311.6	964.2
35°	1036.9	1032.7	1027.5	996.1	963.3	974.5	1116.1	1453.6	1537.0	1529.1	1069.7
37.5°	1138.6	1136.3	1132.0	1110.5	1072.5	1086.1	1225.3	1596.6	1741.4	1715.2	1218.8
40°	1245.5	1258.1	1244.5	1225.3	1190.6	1220.6	1353.8	1681.4	1913.5	1881.6	1332.7
42.5°	1390.3	1380.5	1386.6	1351.4	1332.7	1365.5	1482.7	1766.3	2047.1	2009.1	1453.6
45°	1544.5	1545.0	1528.6	1517.4	1468.6	1504.2	1561.9	1813.1	2153.5	2123.9	1545.0
47.5°	1643.5	1643.0	1660.8	1678.6	1628.5	1593.3	1615.8	1857.7	2208.3	2194.7	1578.3
50°	1628.0	1632.7	1655.6	1722.2	1748.5	1701.1	1666.4	1844.6	2233.2	2231.7	1606.9
52.5°	1416.1	1431.6	1470.0	1566.1	1698.3	1756.9	1719.4	1868.9	2245.3	2247.7	1649.6
55°	1078.1	1086.6	1159.7	1276.4	1422.7	1623.3	1698.3	1888.1	2254.7	2258.9	1701.1
56°	935.2	912.7	1018.1	1101.1	1276.0	1495.3	1644.9	1873.1	2249.1	2281.4	1726.9
57.5°	705.9	690.9	776.3	879.9	1048.1	1279.7	1478.9	1802.4	2211.1	2210.7	1689.9
60°	429.4	414.4	480.0	540.9	635.2	788.0	999.4	1435.3	1869.4	1908.8	1368.3
62.5°	255.5	264.8	329.5	366.6	397.0	413.0	517.0	853.1	1247.4	1275.5	848.9
65°	170.2	173.4	222.2	283.1	296.7	236.3	210.5	345.5	540.9	523.6	350.2
67.5°	105.0	112.5	149.1	212.8	235.8	172.5	99.8	128.9	149.1	149.1	101.3
70°	63.8	67.5	99.4	144.8	161.7	111.1	72.7	72.7	71.7	70.3	60.5
72.5°	30.5	32.8	50.6	74.5	75.9	58.6	56.3	61.4	60.0	59.5	50.2
75°	13.1	14.1	17.8	23.4	26.7	24.8	34.2	44.1	45.5	44.1	36.1
77.5°	4.2	4.7	6.6	8.4	8.9	10.8	14.5	18.3	21.1	19.7	17.8
80°	0.5	0.9	1.9	4.2	6.6	8.4	10.8	12.2	13.6	13.6	12.7
82.5°	0.5	0.5	1.9	3.8	6.1	8.0	10.3	11.7	13.6	14.1	13.1
85°	0.0	0.5	1.4	3.3	5.2	5.2	4.7	4.7	3.3	3.3	3.3
87.5°	0.0	0.0	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9
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°	423.3	423.3	423.3	423.3	423.3	423.3	423.3	423.3	423.3	423.3	423.3
2.5°	427.0	426.1	413.4	405.5	401.3	392.8	387.7	383.9	381.1	377.8	378.3
5°	432.7	429.4	408.3	393.8	376.4	367.0	359.1	352.5	348.3	347.3	345.5
7.5°	448.6	431.3	399.4	373.1	351.1	341.7	334.7	330.5	332.3	328.1	331.4
10°	460.8	435.0	388.6	350.6	328.6	321.6	317.8	321.1	325.8	323.9	321.6
12.5°	475.8	438.8	371.3	329.1	308.4	303.3	309.8	315.9	325.3	329.1	324.4
15°	492.7	443.0	349.2	304.2	291.1	295.3	306.6	317.3	326.7	331.4	334.2
17.5°	513.3	441.6	327.7	284.5	274.7	286.9	300.5	310.3	324.4	331.4	329.5
20°	532.5	436.9	303.8	264.8	265.3	276.6	287.8	303.8	311.3	320.6	317.3
22.5°	550.8	428.4	278.9	251.3	251.3	268.6	274.2	284.5	291.1	295.8	295.3
25°	576.6	412.5	258.3	238.1	243.8	255.0	259.7	263.0	260.2	263.9	264.4
27.5°	594.9	396.1	241.4	226.4	236.7	245.2	243.8	241.9	235.3	230.2	233.4
30°	614.5	376.9	226.9	218.4	224.1	231.6	225.9	220.3	210.0	201.6	202.0
32.5°	642.7	368.0	214.2	209.1	216.6	217.5	211.4	203.0	192.7	184.7	184.2
35°	695.2	362.3	203.4	203.0	204.4	204.8	198.8	188.4	184.2	177.7	180.0
37.5°	747.7	359.5	195.9	194.1	193.6	194.1	187.0	177.2	185.2	184.7	185.6
40°	814.7	372.2	185.2	182.8	183.3	183.3	174.4	171.6	185.6	187.0	187.5
42.5°	882.7	388.1	178.1	170.6	172.5	172.5	167.8	164.5	174.4	165.0	163.6
45°	941.7	411.6	170.6	158.4	163.1	165.5	164.1	158.4	152.3	136.4	136.4
47.5°	960.9	432.2	161.7	146.7	150.5	160.8	156.6	144.8	134.1	120.9	120.0
50°	994.7	454.7	154.7	133.1	141.1	153.8	149.5	137.8	125.6	116.3	116.7
52.5°	1029.4	480.5	141.6	117.2	127.0	148.1	148.1	135.0	116.3	109.7	108.8
55°	1081.4	479.5	118.1	96.1	113.4	139.7	142.0	120.9	104.1	98.9	98.9
56°	1088.9	458.0	106.4	90.0	107.3	137.3	137.8	117.2	99.4	93.8	93.8
57.5°	1032.7	413.4	93.3	82.5	99.8	133.1	133.6	113.9	95.6	87.7	86.7
60°	794.5	279.8	77.8	73.6	90.5	120.0	122.3	103.6	83.9	77.8	77.3
62.5°	448.6	155.2	68.4	66.6	77.8	102.2	109.2	90.5	71.3	68.0	68.9
65°	204.8	85.3	57.7	53.9	62.8	78.8	88.1	74.5	58.6	54.8	54.8
67.5°	75.0	58.1	49.2	42.7	44.1	51.1	57.2	48.3	38.9	33.3	34.7
70°	53.4	48.8	43.1	37.0	34.2	33.3	32.8	27.2	19.2	15.0	15.9
72.5°	43.1	40.3	36.1	31.4	26.7	22.5	19.2	14.1	8.9	6.1	5.6
75°	30.9	29.5	26.3	22.5	18.8	15.9	13.1	8.9	4.7	2.3	2.3
77.5°	15.9	15.9	15.5	14.1	11.7	9.4	7.5	5.2	2.8	0.9	0.9
80°	12.2	13.1	13.6	12.2	10.8	8.4	6.1	3.8	1.9	0.5	0.5
82.5°	11.7	13.6	14.5	12.7	10.8	8.0	6.1	3.8	1.9	0.5	0.5
85°	2.8	2.8	4.2	4.7	6.1	6.6	5.2	3.3	1.4	0.5	0.5
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	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)