

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: P527147

Luminaire Tested: **GALN-SA2A-827-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527147
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-SA2A-827-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3988 lumens
Efficiency: N/A
Efficacy: 63.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

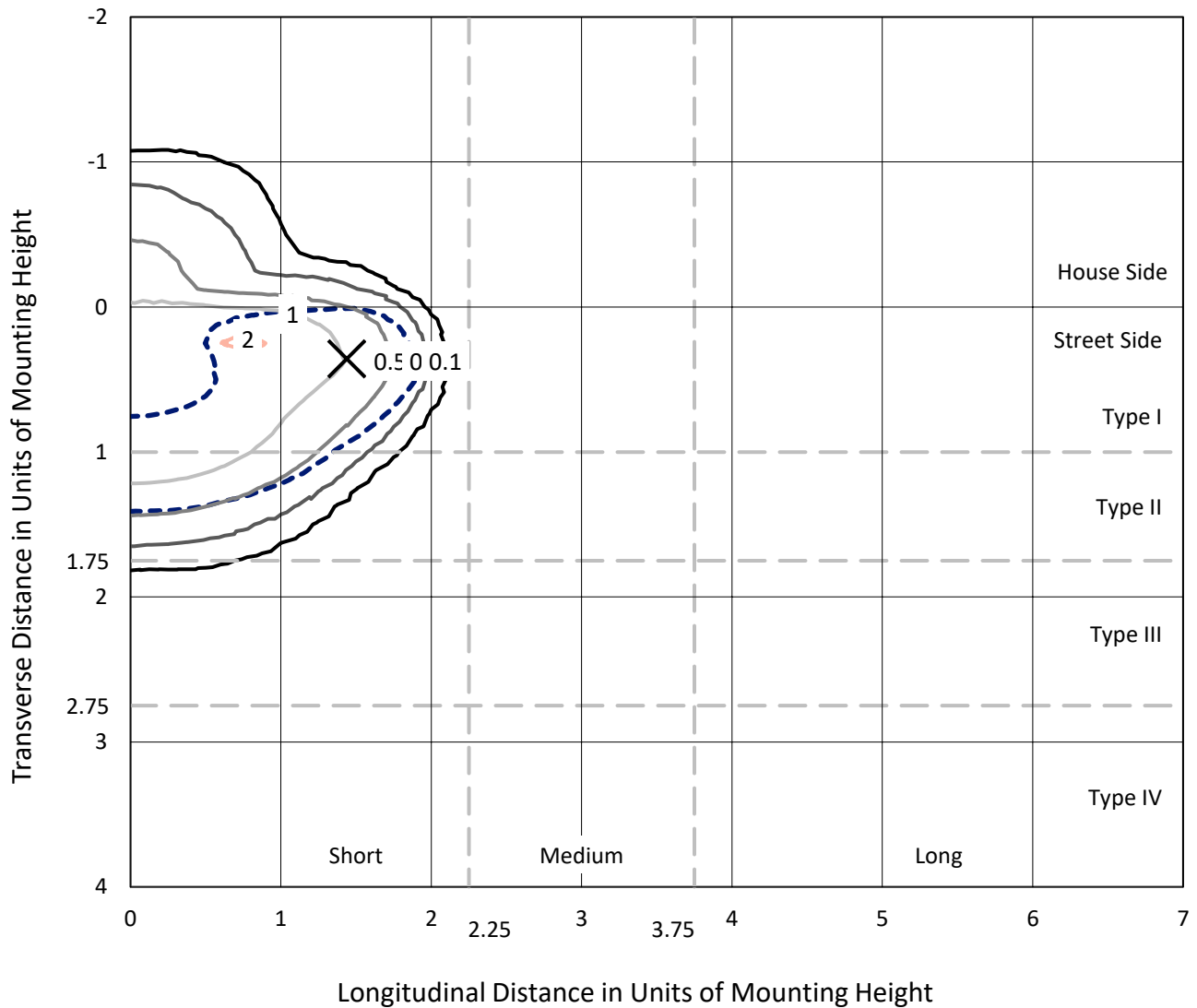
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

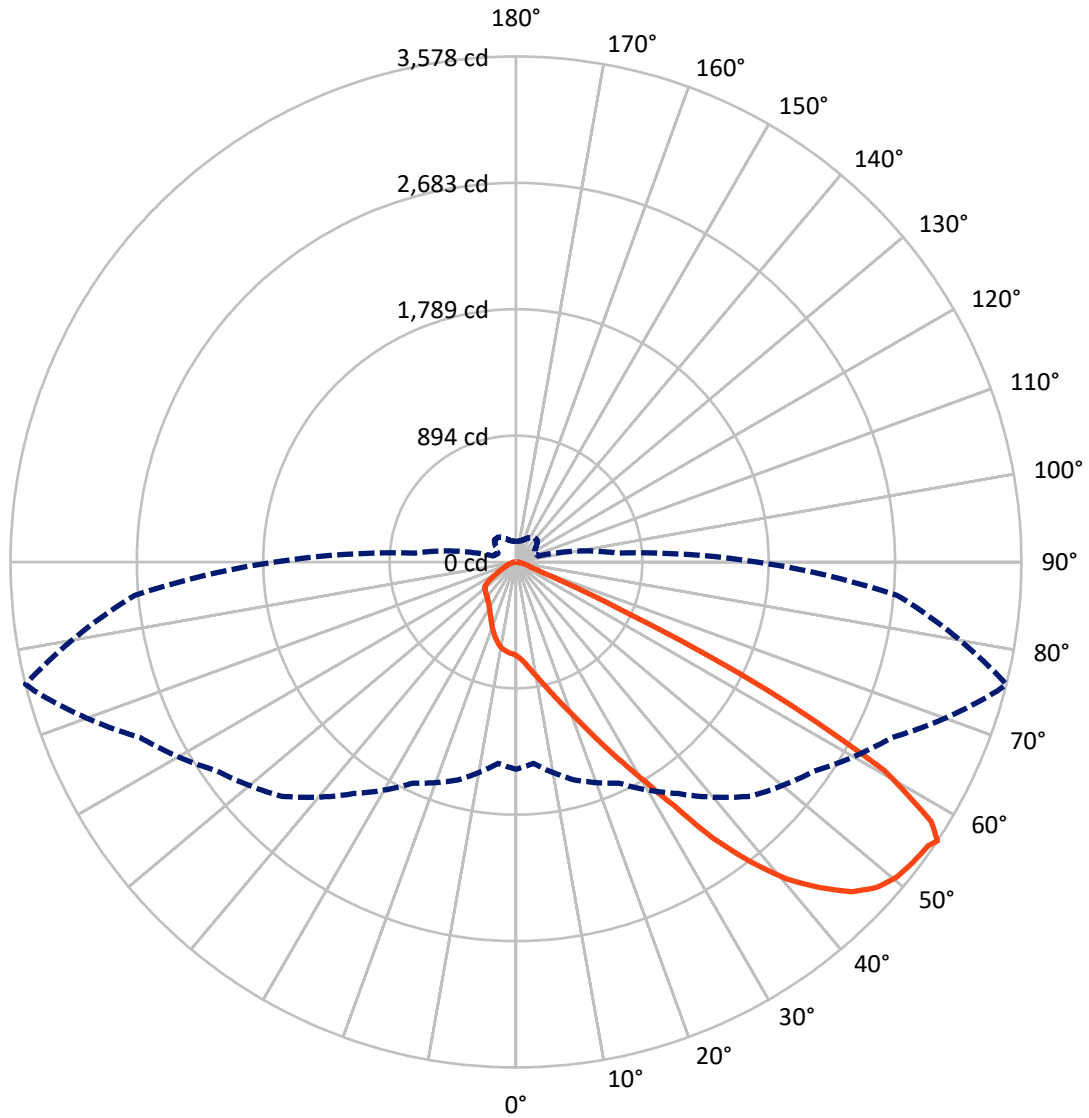
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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
House Side	Lumens	626.5	0.0	626.5
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	3361.5	0.0	3361.5
	% Fixture	84.3	0.0	84.3
Total	Lumens	3988.0	0.0	3988.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.9	1.7
10°-20°	214.8	5.4
20°-30°	389.5	9.8
30°-40°	671.8	16.8
40°-50°	1091.3	27.4
50°-60°	1150.3	28.8
60°-70°	351.5	8.8
70°-80°	45.1	1.1
80°-90°	6.8	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°	3988.0	100.0
0°-180°	3988.0	100.0

Coefficient of Utilization

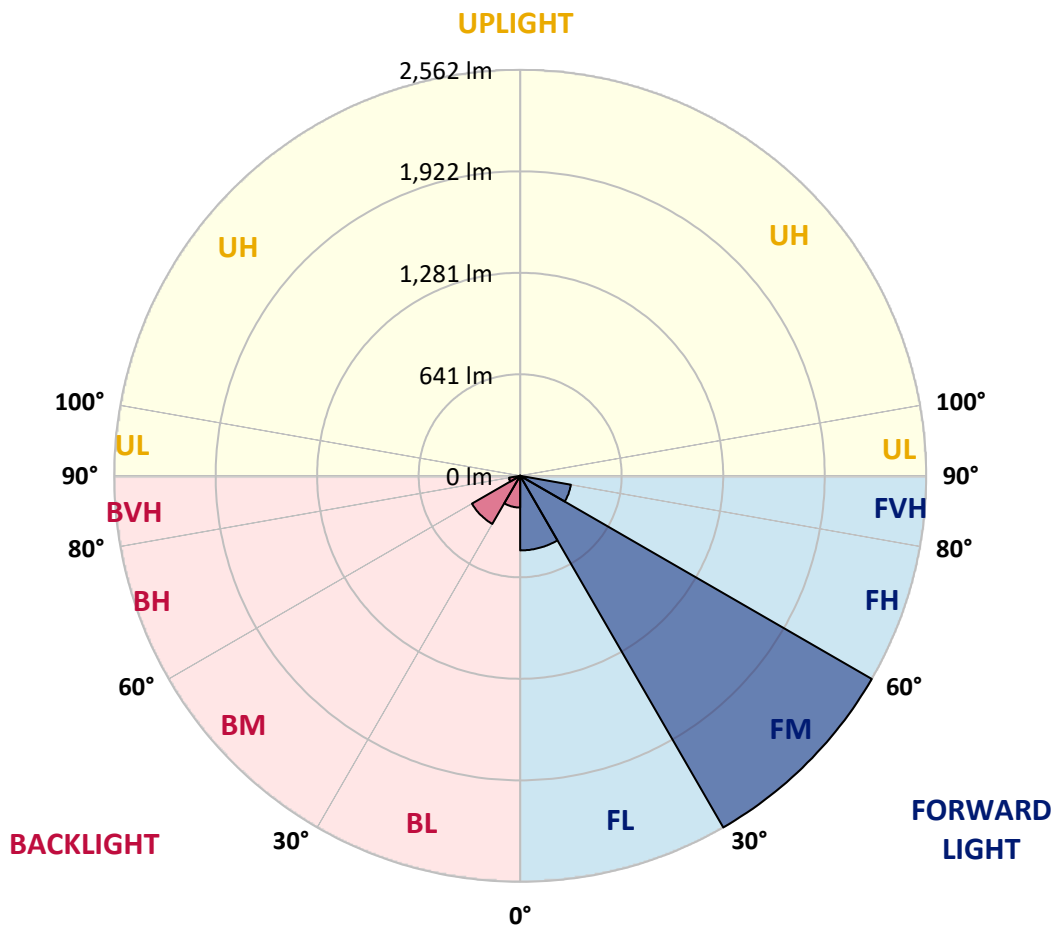


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	470.8	11.8			
FM (30°-60°)	2562.3	64.2			
FH (60°-80°)	325.0	8.2			G0/660
FVH (80°-90°)	3.4	0.1			G0/10
BL (0°-30°)	200.4	5.0	B1/500		
BM (30°-60°)	351.1	8.8	B1/1000		
BH (60°-80°)	71.5	1.8	B0/110		G0/110
BVH (80°-90°)	3.5	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°	663.8	663.8	663.8	663.8	663.8	663.8	663.8	663.8	663.8	663.8	663.8
2.5°	764.5	746.9	747.6	746.1	743.9	735.8	711.6	707.9	691.7	687.3	672.6
5°	856.4	841.0	849.8	836.6	824.1	816.7	777.0	758.6	732.9	723.4	702.8
7.5°	913.7	906.4	903.5	904.2	892.4	874.1	856.4	816.0	781.4	774.1	730.7
10°	941.7	937.3	941.7	939.5	944.6	946.8	916.0	891.7	841.0	828.5	760.8
12.5°	948.3	957.1	960.8	970.4	982.8	1004.2	1002.0	968.9	901.3	893.2	807.2
15°	964.5	971.8	968.1	983.6	1007.1	1043.1	1062.2	1057.1	984.3	969.6	860.8
17.5°	979.2	965.9	978.4	1009.3	1032.8	1088.0	1134.3	1155.6	1074.7	1057.8	910.1
20°	999.0	995.3	993.1	1008.6	1050.5	1124.0	1215.9	1254.8	1176.2	1158.5	980.6
22.5°	1059.3	1060.0	1058.6	1035.8	1065.9	1149.0	1287.2	1383.5	1297.5	1282.8	1060.8
25°	1138.7	1129.1	1121.8	1103.4	1099.7	1171.8	1359.2	1540.8	1443.0	1432.7	1147.5
27.5°	1222.5	1222.5	1200.4	1183.5	1160.0	1228.4	1425.4	1693.7	1618.7	1604.8	1223.2
30°	1313.7	1318.8	1315.9	1279.8	1265.1	1290.1	1493.0	1889.2	1820.1	1802.5	1348.2
32.5°	1448.2	1437.1	1449.6	1419.5	1376.1	1398.2	1599.6	2064.2	2081.8	2056.9	1512.1
35°	1626.1	1619.5	1611.4	1562.1	1510.7	1528.3	1750.3	2279.6	2410.4	2397.9	1677.5
37.5°	1785.6	1781.9	1775.3	1741.5	1681.9	1703.3	1921.6	2503.8	2731.0	2689.8	1911.3
40°	1953.2	1973.0	1951.7	1921.6	1867.2	1914.2	2123.0	2636.9	3000.7	2950.8	2089.9
42.5°	2180.4	2164.9	2174.5	2119.3	2089.9	2141.4	2325.2	2769.9	3210.2	3150.7	2279.6
45°	2422.2	2422.9	2397.2	2379.6	2303.1	2359.0	2449.4	2843.4	3377.1	3330.8	2422.9
47.5°	2577.3	2576.6	2604.5	2632.4	2553.8	2498.7	2533.9	2913.3	3463.1	3441.8	2475.1
50°	2553.1	2560.4	2596.4	2700.8	2742.0	2667.7	2613.3	2892.7	3502.1	3499.9	2520.0
52.5°	2220.8	2245.0	2305.3	2456.0	2663.3	2755.2	2696.4	2930.9	3521.2	3524.9	2586.9
55°	1690.8	1704.0	1818.7	2001.7	2231.1	2545.7	2663.3	2961.0	3535.9	3542.5	2667.7
56°	1466.6	1431.3	1596.7	1726.8	2001.0	2345.0	2579.5	2937.5	3527.1	3577.8	2708.2
57.5°	1107.1	1083.6	1217.3	1379.8	1643.7	2006.9	2319.3	2826.5	3467.5	3466.8	2650.1
60°	673.4	649.8	752.8	848.3	996.1	1235.7	1567.3	2250.9	2931.6	2993.4	2145.8
62.5°	400.6	415.3	516.8	574.9	622.6	647.6	810.8	1337.9	1956.1	2000.2	1331.3
65°	266.8	272.0	348.4	444.0	465.3	370.5	330.1	541.8	848.3	821.1	549.1
67.5°	164.7	176.4	233.8	333.7	369.8	270.5	156.6	202.2	233.8	233.8	158.8
70°	100.0	105.9	155.8	227.2	253.6	174.2	113.9	113.9	112.5	110.3	94.8
72.5°	47.8	51.5	79.4	116.9	119.1	91.9	88.2	96.3	94.1	93.4	78.7
75°	20.6	22.1	27.9	36.8	41.9	39.0	53.7	69.1	71.3	69.1	56.6
77.5°	6.6	7.4	10.3	13.2	14.0	16.9	22.8	28.7	33.1	30.9	27.9
80°	0.7	1.5	2.9	6.6	10.3	13.2	16.9	19.1	21.3	21.3	19.8
82.5°	0.7	0.7	2.9	5.9	9.6	12.5	16.2	18.4	21.3	22.1	20.6
85°	0.0	0.7	2.2	5.1	8.1	8.1	7.4	7.4	5.1	5.1	5.1
87.5°	0.0	0.0	0.7	0.7	0.7	1.5	1.5	1.5	1.5	1.5	1.5
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°	663.8	663.8	663.8	663.8	663.8	663.8	663.8	663.8	663.8	663.8	663.8
2.5°	669.7	668.2	648.4	635.9	629.3	616.0	607.9	602.1	597.6	592.5	593.2
5°	678.5	673.4	640.3	617.5	590.3	575.6	563.1	552.8	546.2	544.7	541.8
7.5°	703.5	676.3	626.3	585.2	550.6	535.9	524.9	518.3	521.2	514.6	519.7
10°	722.6	682.2	609.4	549.9	515.3	504.3	498.4	503.6	510.9	508.0	504.3
12.5°	746.1	688.1	582.2	516.1	483.7	475.6	485.9	495.5	510.2	516.1	508.7
15°	772.6	694.7	547.7	477.1	456.5	463.1	480.8	497.7	512.4	519.7	524.1
17.5°	805.0	692.5	513.8	446.2	430.8	449.9	471.2	486.6	508.7	519.7	516.8
20°	835.1	685.1	476.4	415.3	416.1	433.7	451.4	476.4	488.1	502.8	497.7
22.5°	863.8	671.9	437.4	394.0	394.0	421.2	430.0	446.2	456.5	463.9	463.1
25°	904.2	646.9	405.0	373.4	382.3	399.9	407.3	412.4	408.0	413.9	414.6
27.5°	932.9	621.2	378.6	355.1	371.2	384.5	382.3	379.3	369.0	360.9	366.1
30°	963.7	591.0	355.8	342.6	351.4	363.1	354.3	345.5	329.3	316.1	316.8
32.5°	1007.8	577.1	335.9	327.9	339.6	341.1	331.5	318.3	302.1	289.6	288.9
35°	1090.2	568.2	319.0	318.3	320.5	321.2	311.7	295.5	288.9	278.6	282.3
37.5°	1172.5	563.8	307.3	304.3	303.6	304.3	293.3	277.9	290.4	289.6	291.1
40°	1277.6	583.7	290.4	286.7	287.4	287.4	273.5	269.1	291.1	293.3	294.0
42.5°	1384.2	608.7	279.3	267.6	270.5	270.5	263.2	258.0	273.5	258.8	256.6
45°	1476.8	645.4	267.6	248.5	255.8	259.5	257.3	248.5	238.9	213.9	213.9
47.5°	1507.0	677.8	253.6	230.1	236.0	252.1	245.5	227.2	210.2	189.7	188.2
50°	1559.9	713.1	242.6	208.8	221.3	241.1	234.5	216.1	197.0	182.3	183.0
52.5°	1614.3	753.5	222.0	183.8	199.2	232.3	232.3	211.7	182.3	172.0	170.5
55°	1695.9	752.0	185.2	150.7	177.9	219.1	222.7	189.7	163.2	155.1	155.1
56°	1707.7	718.2	166.9	141.1	168.3	215.4	216.1	183.8	155.8	147.0	147.0
57.5°	1619.5	648.4	146.3	129.4	156.6	208.8	209.5	178.6	150.0	137.5	136.0
60°	1246.0	438.9	122.0	115.4	141.9	188.2	191.9	162.5	131.6	122.0	121.3
62.5°	703.5	243.3	107.3	104.4	122.0	160.3	171.3	141.9	111.7	106.6	108.1
65°	321.2	133.8	90.4	84.5	98.5	123.5	138.2	116.9	91.9	86.0	86.0
67.5°	117.6	91.2	77.2	66.9	69.1	80.1	89.7	75.7	61.0	52.2	54.4
70°	83.8	76.5	67.6	58.1	53.7	52.2	51.5	42.6	30.1	23.5	25.0
72.5°	67.6	63.2	56.6	49.3	41.9	35.3	30.1	22.1	14.0	9.6	8.8
75°	48.5	46.3	41.2	35.3	29.4	25.0	20.6	14.0	7.4	3.7	3.7
77.5°	25.0	25.0	24.3	22.1	18.4	14.7	11.8	8.1	4.4	1.5	1.5
80°	19.1	20.6	21.3	19.1	16.9	13.2	9.6	5.9	2.9	0.7	0.7
82.5°	18.4	21.3	22.8	19.8	16.9	12.5	9.6	5.9	2.9	0.7	0.7
85°	4.4	4.4	6.6	7.4	9.6	10.3	8.1	5.1	2.2	0.7	0.7
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	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)