

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: P527045

Luminaire Tested: **GALN-SA2A-735-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527045
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-735-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5666 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

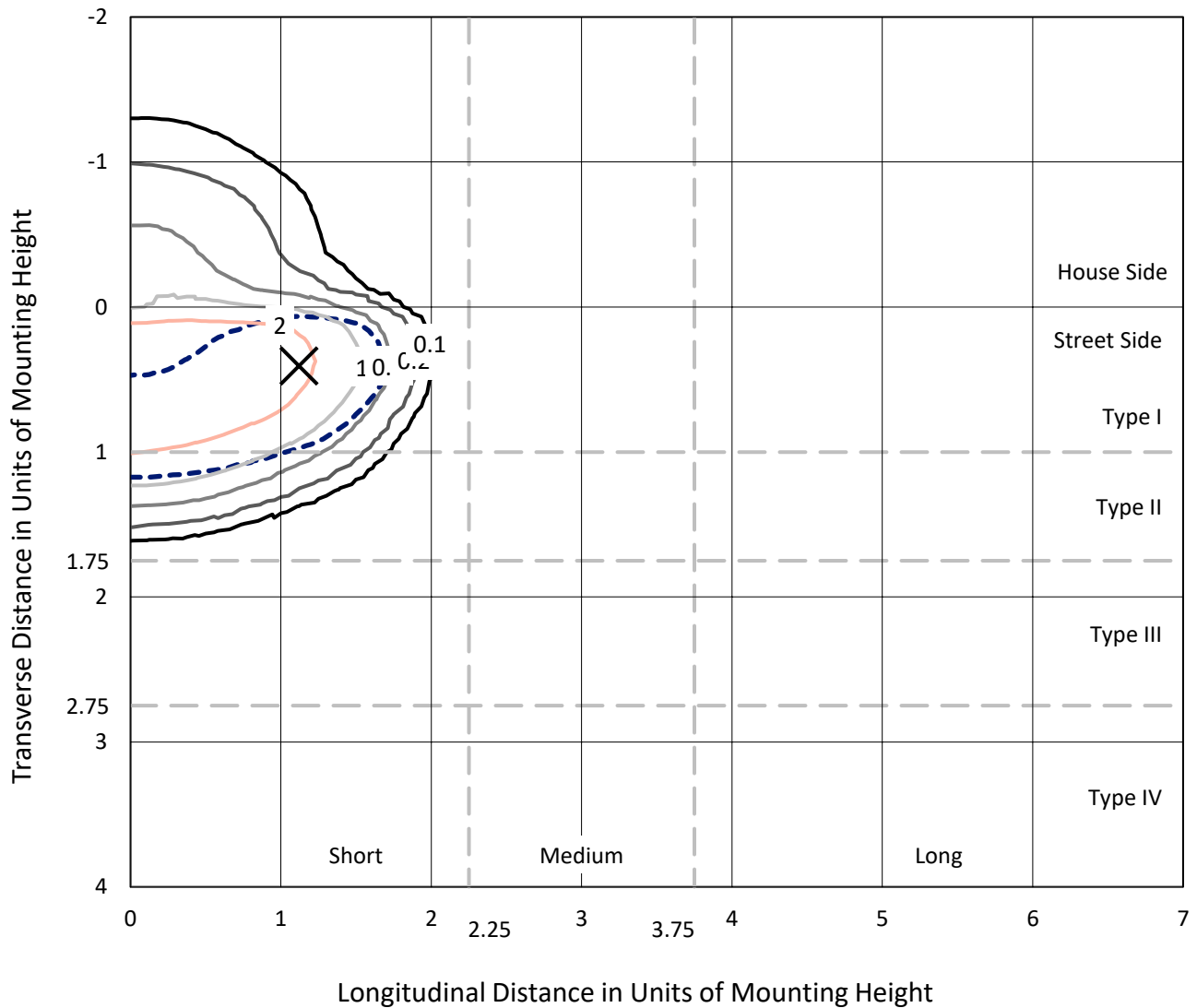
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527045
 CATALOG NUMBER: GALN-SA2A-735-U-T2R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

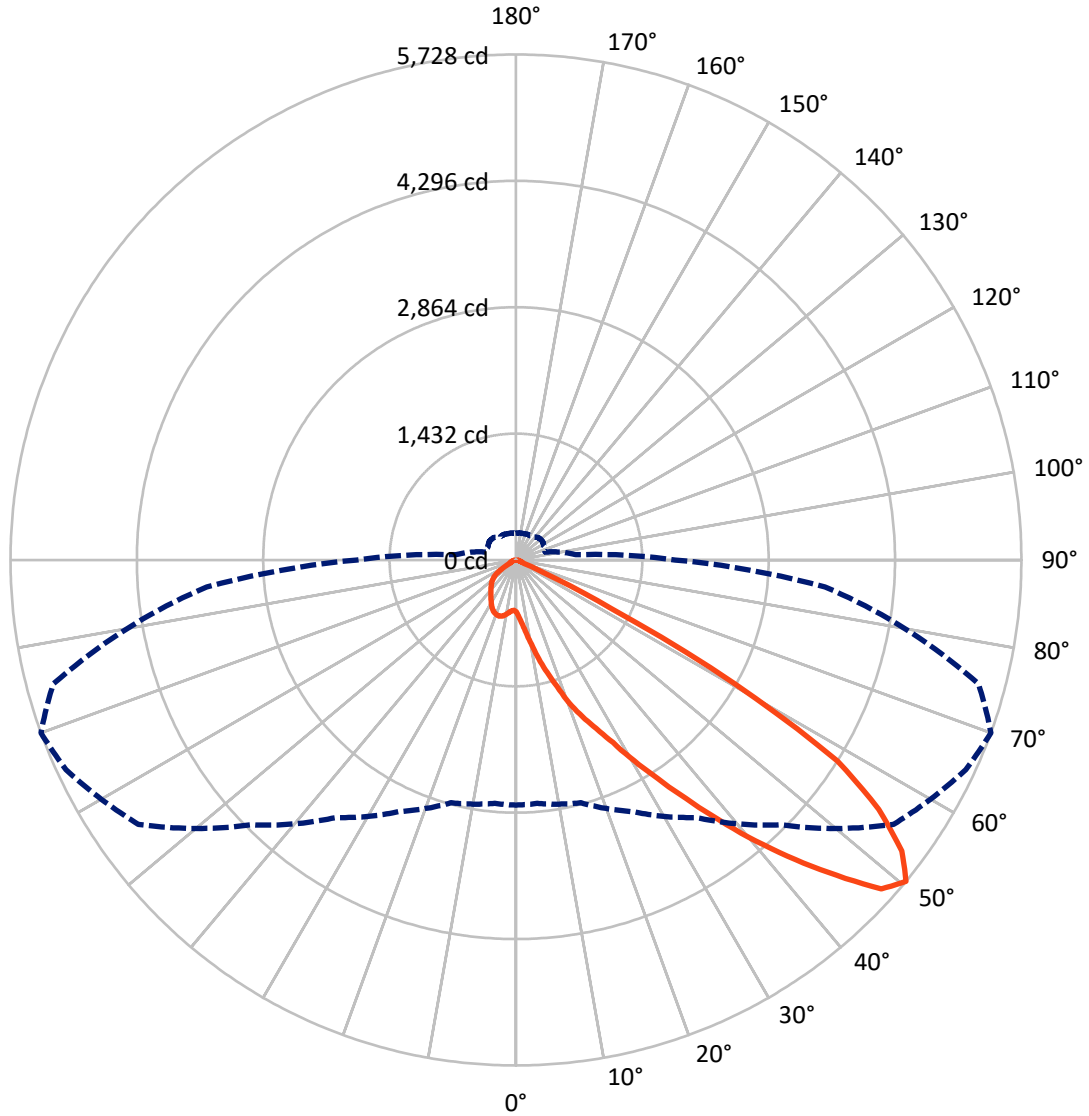
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type I - Short - N/A

REPORT NUMBER: P527045
CATALOG NUMBER: GALN-SA2A-735-U-T2R-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P527045

CATALOG NUMBER: GALN-SA2A-735-U-T2R-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	791.3	0.0	791.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	4874.7	0.0	4874.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	5666.0	0.0	5666.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	1.3
10°-20°	330.1	5.8
20°-30°	692.5	12.2
30°-40°	1193.7	21.1
40°-50°	1744.6	30.8
50°-60°	1358.7	24.0
60°-70°	230.2	4.1
70°-80°	31.6	0.6
80°-90°	8.2	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°	5666.0	100.0
0°-180°	5666.0	100.0

Coefficient of Utilization



REPORT NUMBER: P527045

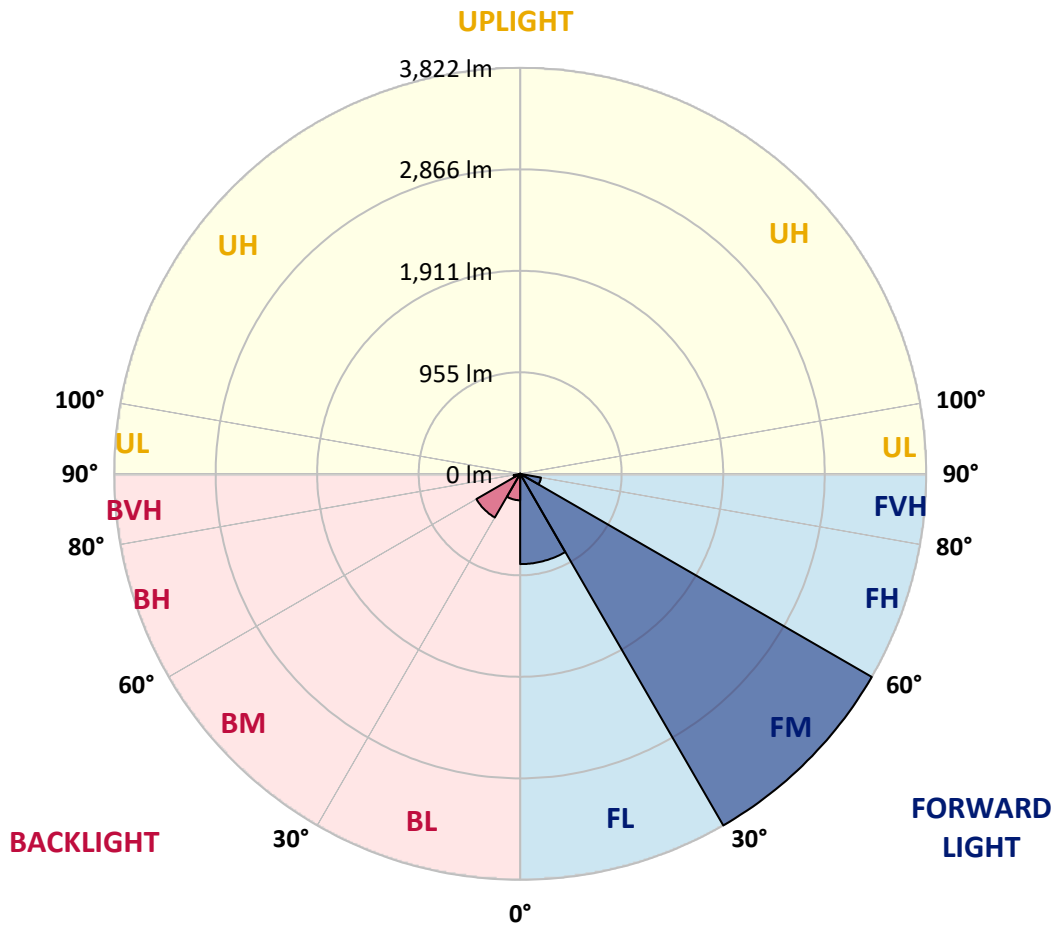
CATALOG NUMBER: GALN-SA2A-735-U-T2R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	850.0	15.0			
FM (30°-60°)	3821.6	67.4			
FH (60°-80°)	199.3	3.5			G0/660
FVH (80°-90°)	3.8	0.1			G0/10
BL (0°-30°)	249.0	4.4	B1/500		
BM (30°-60°)	475.4	8.4	B1/1000		
BH (60°-80°)	62.5	1.1	B0/110		G0/110
BVH (80°-90°)	4.4	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 I Short





REPORT NUMBER: P527045

CATALOG NUMBER: GALN-SA2A-735-U-T2R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	586.9	586.9	586.9	586.9	586.9	586.9	586.9	586.9	586.9	586.9	586.9
2.5°	768.5	763.0	750.8	728.5	719.2	696.8	683.8	658.6	642.8	625.1	605.5
5°	1082.5	1053.6	1035.9	1010.7	937.2	891.5	816.1	751.8	722.0	689.4	644.6
7.5°	1406.7	1388.0	1363.8	1309.8	1259.5	1164.5	1035.0	893.4	832.8	776.9	688.4
10°	1675.0	1622.8	1620.0	1579.9	1525.0	1411.3	1255.7	1079.7	971.6	889.6	750.8
12.5°	1862.2	1814.7	1836.1	1831.5	1780.2	1675.9	1496.1	1263.2	1150.5	1022.9	815.1
15°	2032.7	2013.1	2006.6	2001.0	1980.5	1903.2	1742.0	1486.8	1323.8	1170.0	887.8
17.5°	2199.4	2149.1	2173.3	2178.0	2176.1	2106.3	1955.4	1699.2	1507.3	1325.6	964.2
20°	2347.5	2352.2	2319.6	2313.1	2307.5	2304.7	2157.5	1909.7	1732.7	1488.6	1063.8
22.5°	2537.6	2505.0	2533.9	2515.2	2478.9	2456.5	2343.8	2096.0	1928.3	1685.2	1165.4
25°	2762.1	2788.2	2720.2	2712.7	2672.7	2595.3	2493.8	2304.7	2116.5	1867.8	1275.3
27.5°	3038.8	2993.1	2975.4	2934.4	2861.8	2829.2	2709.9	2519.9	2343.8	2059.7	1381.5
30°	3276.3	3264.2	3175.7	3127.3	3063.9	3063.0	2896.2	2811.5	2640.1	2360.6	1527.8
32.5°	3470.1	3417.0	3384.4	3350.8	3299.6	3313.6	3172.9	3128.2	2955.9	2640.1	1700.1
35°	3599.6	3561.4	3541.8	3490.6	3475.7	3538.1	3479.4	3460.8	3319.2	3033.2	1902.3
37.5°	3640.6	3652.7	3648.9	3584.7	3616.3	3784.9	3860.4	3812.0	3737.4	3447.7	2121.2
40°	3676.9	3685.3	3666.6	3742.1	3832.5	4024.4	4297.3	4217.2	4189.2	3867.9	2425.8
42.5°	3697.4	3690.9	3690.9	3821.3	3958.2	4343.9	4719.3	4666.2	4644.8	4315.0	2777.9
45°	3608.9	3545.5	3613.5	3790.5	4066.3	4501.3	5056.5	5130.1	5099.4	4846.9	3189.7
47.5°	3278.2	3317.3	3355.5	3592.1	3934.9	4452.9	5263.3	5513.9	5570.8	5294.1	3459.8
50°	2777.9	2769.5	2848.7	3146.8	3563.2	4244.2	5223.3	5624.8	5728.2	5428.2	3516.7
52.5°	2020.6	2082.0	2167.8	2464.0	2957.7	3703.9	4706.3	5338.8	5476.7	5263.3	3479.4
55°	1176.6	1108.6	1301.4	1552.0	2017.8	2793.8	3978.7	4732.4	4987.6	4963.4	3291.2
57.5°	471.4	456.5	522.6	704.3	1052.7	1731.8	2893.4	3888.4	4297.3	4546.0	2892.5
60°	206.8	202.1	237.5	286.9	430.4	798.4	1582.7	2418.3	2845.0	3176.6	1990.8
62.5°	149.1	147.2	164.9	182.6	227.3	347.5	665.1	974.4	1214.8	1467.2	891.5
65°	120.2	124.8	136.9	146.3	167.7	192.8	234.8	271.1	332.6	344.7	196.6
67.5°	97.8	101.5	112.7	123.0	126.7	104.3	108.1	95.0	95.0	84.8	68.0
70°	71.7	72.7	85.7	97.8	78.3	41.9	73.6	73.6	66.1	63.3	57.8
72.5°	53.1	54.0	64.3	60.6	30.7	26.1	54.0	59.6	54.0	51.2	46.6
75°	39.1	40.1	33.5	14.0	13.0	16.8	31.7	41.0	39.1	38.2	35.4
77.5°	7.5	5.6	4.7	6.5	9.3	14.0	20.5	25.2	26.1	27.9	26.1
80°	0.9	0.9	2.8	5.6	10.2	14.9	21.4	24.2	25.2	26.1	24.2
82.5°	0.0	0.9	2.8	5.6	10.2	14.0	18.6	21.4	23.3	24.2	23.3
85°	0.0	0.9	1.9	4.7	8.4	10.2	9.3	6.5	5.6	6.5	4.7
87.5°	0.0	0.0	0.9	0.9	1.9	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



REPORT NUMBER: P527045

CATALOG NUMBER: GALN-SA2A-735-U-T2R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	586.9	586.9	586.9	586.9	586.9	586.9	586.9	586.9	586.9	586.9	586.9
2.5°	594.3	590.6	577.6	563.6	551.5	557.1	551.5	546.8	548.7	546.8	545.0
5°	626.9	610.2	582.2	570.1	559.9	558.9	556.1	555.2	556.1	556.1	547.8
7.5°	657.7	630.7	600.9	587.8	575.7	576.6	570.1	570.1	569.2	564.5	562.7
10°	704.3	667.9	629.7	606.4	591.5	588.7	582.2	575.7	575.7	575.7	566.4
12.5°	755.5	709.9	657.7	630.7	613.0	599.0	588.7	586.9	576.6	574.8	570.1
15°	800.2	742.5	676.3	639.1	616.7	598.1	582.2	572.0	567.3	564.5	560.8
17.5°	844.0	770.4	686.6	639.1	614.8	593.4	576.6	567.3	556.1	558.0	550.6
20°	902.7	800.2	689.4	626.9	597.1	576.6	554.3	549.6	543.1	537.5	539.4
22.5°	959.5	821.6	681.0	612.0	569.2	545.0	533.8	528.2	525.4	520.7	514.2
25°	1010.7	844.9	667.9	585.0	539.4	521.7	511.4	510.5	504.0	504.0	491.9
27.5°	1062.9	853.3	645.6	553.3	513.3	503.0	498.4	496.5	493.7	487.2	478.8
30°	1122.5	856.1	613.0	520.7	490.0	478.8	485.3	490.0	477.9	465.8	469.5
32.5°	1171.9	849.6	573.8	490.0	473.2	467.6	480.7	485.3	471.4	458.3	451.8
35°	1231.5	833.8	535.6	465.8	456.5	467.6	478.8	478.8	450.9	435.0	431.3
37.5°	1321.9	816.1	500.3	445.3	438.8	462.1	477.0	466.7	422.9	403.4	398.7
40°	1418.8	804.9	465.8	424.8	429.5	452.7	461.1	429.5	384.7	372.6	368.9
42.5°	1559.4	782.5	435.0	407.1	421.1	439.7	439.7	382.9	366.1	359.6	358.7
45°	1734.6	766.7	408.0	392.2	409.0	413.6	398.7	358.7	346.5	344.7	345.6
47.5°	1820.3	735.9	380.1	374.5	386.6	387.5	348.4	339.1	328.8	326.0	324.2
50°	1807.2	681.0	343.7	351.2	368.0	358.7	317.7	319.5	310.2	309.3	304.6
52.5°	1715.9	594.3	307.4	325.1	343.7	316.7	292.5	290.6	290.6	278.5	273.9
55°	1521.2	478.8	263.6	286.0	308.3	266.4	259.9	258.0	253.4	242.2	239.4
57.5°	1204.5	351.2	198.4	222.6	261.8	226.4	225.4	217.1	204.9	196.6	196.6
60°	716.4	202.1	124.8	136.0	173.3	183.5	204.0	200.3	179.8	166.8	163.0
62.5°	327.0	104.3	79.2	81.0	93.2	119.2	160.2	185.4	156.5	134.1	132.3
65°	109.9	77.3	65.2	62.4	64.3	71.7	96.0	131.4	124.8	103.4	99.7
67.5°	67.1	68.9	61.5	56.8	56.8	55.9	55.0	59.6	73.6	71.7	72.7
70°	57.8	63.3	56.8	51.2	49.4	46.6	39.1	32.6	27.9	32.6	34.5
72.5°	46.6	50.3	48.4	43.8	39.1	35.4	27.9	21.4	15.8	14.0	14.0
75°	34.5	37.3	39.1	33.5	29.8	25.2	20.5	14.0	8.4	5.6	5.6
77.5°	25.2	27.9	28.9	26.1	22.4	17.7	13.0	9.3	4.7	1.9	1.9
80°	21.4	25.2	27.9	26.1	23.3	16.8	12.1	6.5	3.7	0.9	0.9
82.5°	20.5	25.2	27.9	25.2	22.4	15.8	12.1	7.5	2.8	0.9	0.9
85°	4.7	6.5	8.4	10.2	12.1	12.1	9.3	5.6	2.8	0.9	0.9
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.9	0.9	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)