

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: P526809

Luminaire Tested: **GALN-SA1D-735-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526809
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-SA1D-735-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA 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: 4301 lumens
Efficiency: N/A
Efficacy: 66.2 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

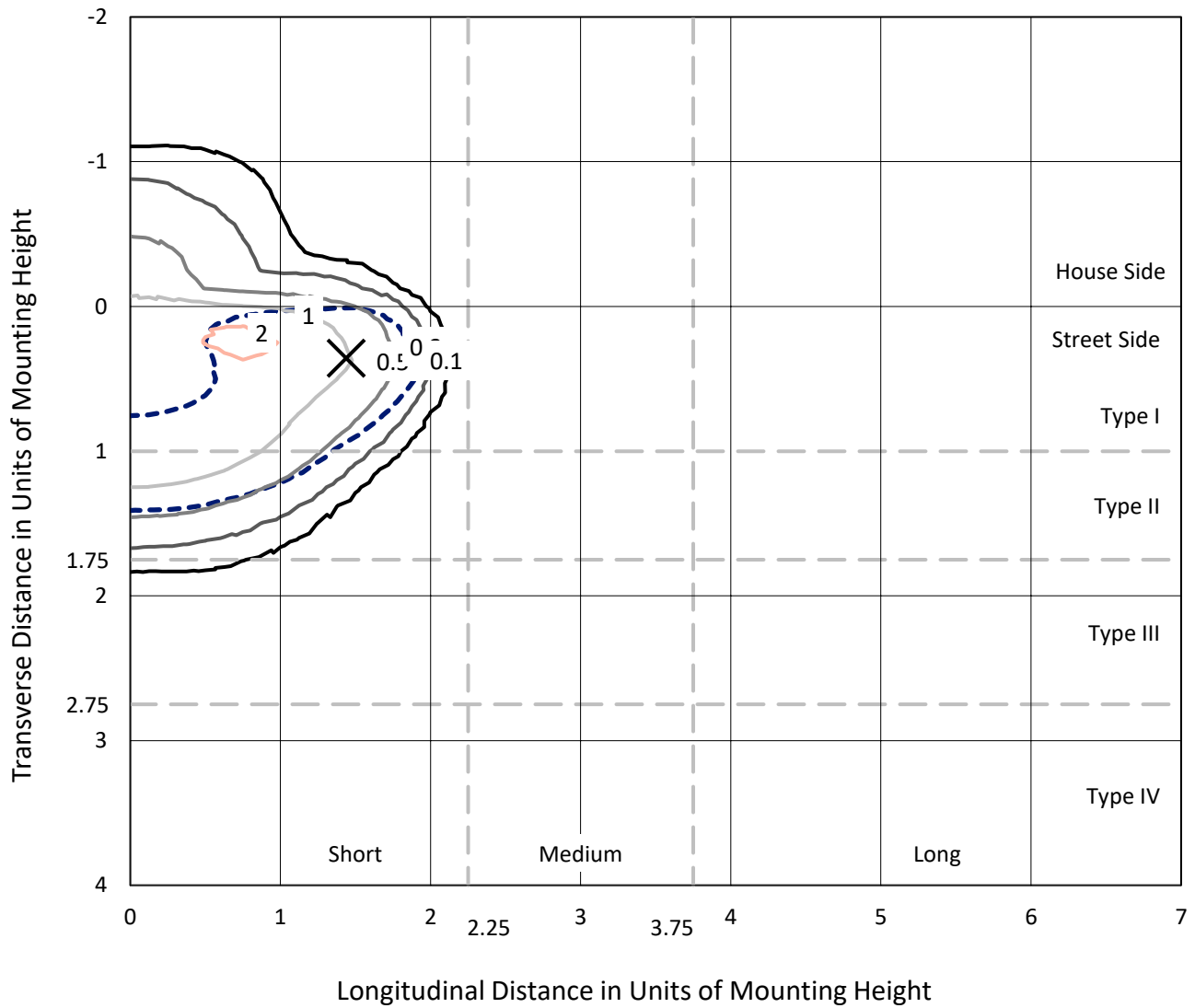
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

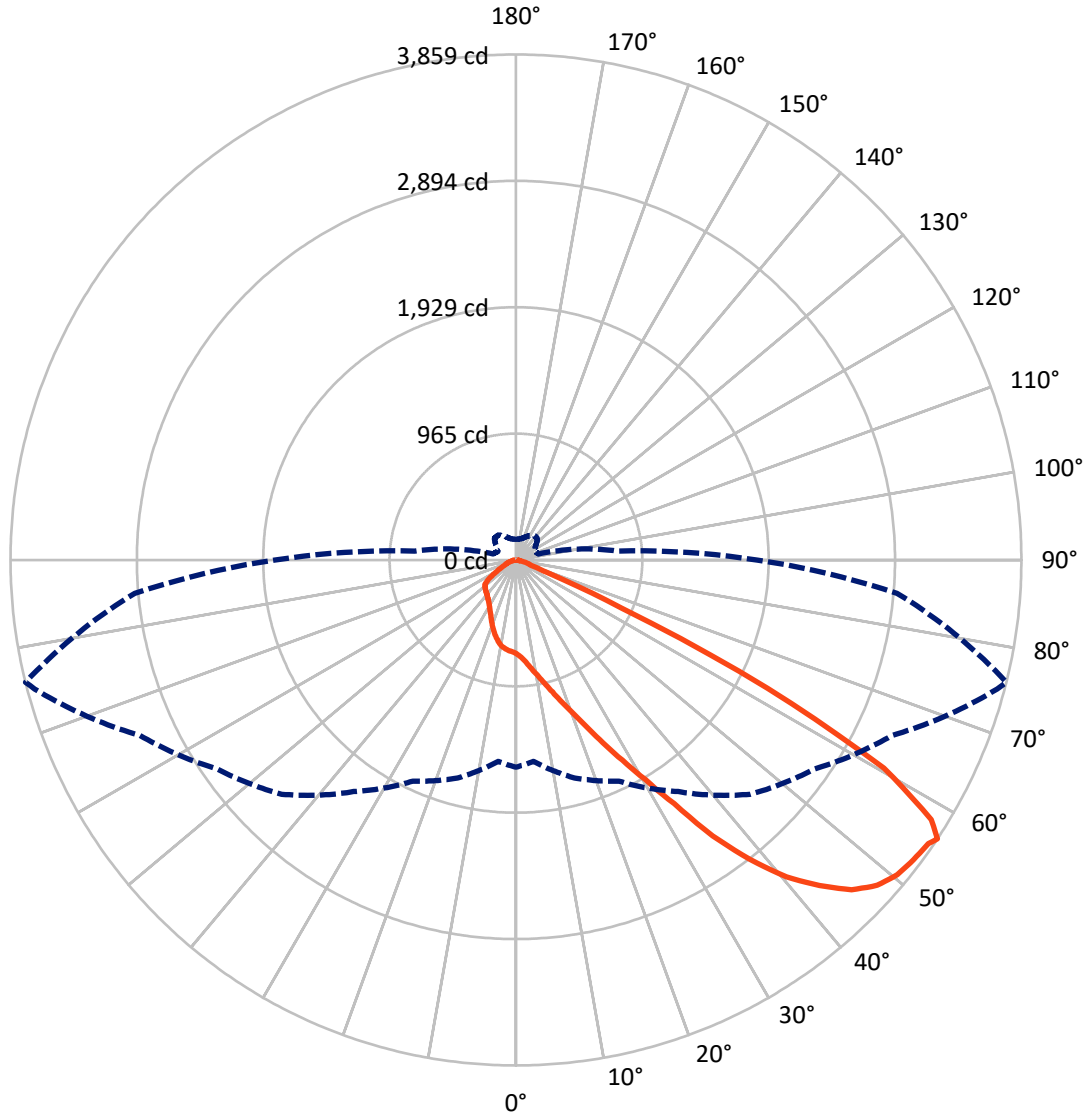
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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
House Side	Lumens	675.7	0.0	675.7
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	3625.3	0.0	3625.3
	% Fixture	84.3	0.0	84.3
Total	Lumens	4301.0	0.0	4301.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.1	1.7
10°-20°	231.7	5.4
20°-30°	420.1	9.8
30°-40°	724.5	16.8
40°-50°	1177.0	27.4
50°-60°	1240.6	28.8
60°-70°	379.0	8.8
70°-80°	48.6	1.1
80°-90°	7.4	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°	4301.0	100.0
0°-180°	4301.0	100.0

Coefficient of Utilization



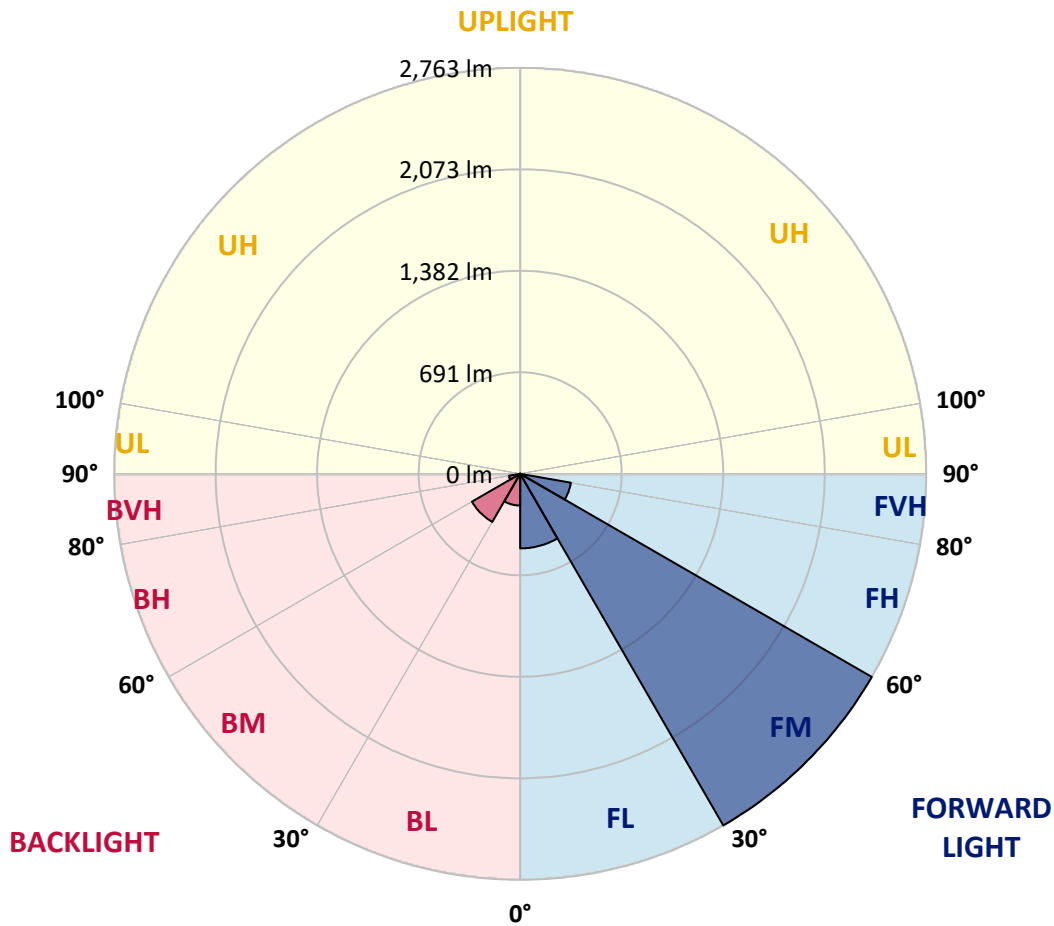
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	507.8	11.8			
FM (30°-60°)	2763.4	64.2			
FH (60°-80°)	350.6	8.2			G0/660
FVH (80°-90°)	3.6	0.1			G0/10
BL (0°-30°)	216.1	5.0	B1/500		
BM (30°-60°)	378.7	8.8	B1/1000		
BH (60°-80°)	77.1	1.8	B0/110		G0/110
BVH (80°-90°)	3.8	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°	715.9	715.9	715.9	715.9	715.9	715.9	715.9	715.9	715.9	715.9	715.9
2.5°	824.5	805.5	806.3	804.7	802.3	793.6	767.4	763.5	746.0	741.3	725.4
5°	923.6	907.0	916.5	902.2	888.7	880.8	838.0	818.2	790.4	780.1	757.9
7.5°	985.5	977.5	974.4	975.2	962.5	942.7	923.6	880.0	842.8	834.8	788.1
10°	1015.6	1010.8	1015.6	1013.2	1018.8	1021.1	987.8	961.7	907.0	893.5	820.6
12.5°	1022.7	1032.2	1036.2	1046.5	1060.0	1083.0	1080.6	1044.9	972.0	963.3	870.5
15°	1040.2	1048.1	1044.1	1060.8	1086.2	1125.0	1145.6	1140.1	1061.6	1045.7	928.4
17.5°	1056.0	1041.8	1055.2	1088.5	1113.9	1173.4	1223.3	1246.3	1159.1	1140.9	981.5
20°	1077.4	1073.5	1071.1	1087.7	1132.9	1212.2	1311.3	1353.3	1268.5	1249.5	1057.6
22.5°	1142.4	1143.2	1141.6	1117.1	1149.6	1239.2	1388.2	1492.1	1399.3	1383.5	1144.0
25°	1228.1	1217.8	1209.8	1190.0	1186.0	1263.7	1465.9	1661.7	1556.3	1545.2	1237.6
27.5°	1318.4	1318.4	1294.7	1276.4	1251.1	1324.8	1537.3	1826.6	1745.8	1730.7	1319.2
30°	1416.8	1422.3	1419.1	1380.3	1364.4	1391.4	1610.2	2037.5	1963.0	1944.0	1454.0
32.5°	1561.8	1549.9	1563.4	1530.9	1484.1	1507.9	1725.2	2226.2	2245.2	2218.3	1630.8
35°	1753.7	1746.6	1737.8	1684.7	1629.2	1648.3	1887.7	2458.5	2599.6	2586.1	1809.2
37.5°	1925.7	1921.8	1914.6	1878.2	1814.0	1836.9	2072.4	2700.3	2945.3	2900.9	2061.3
40°	2106.5	2127.9	2104.9	2072.4	2013.7	2064.5	2289.6	2843.8	3236.3	3182.3	2254.0
42.5°	2351.5	2334.8	2345.1	2285.7	2254.0	2309.5	2507.7	2987.3	3462.2	3398.0	2458.5
45°	2612.3	2613.1	2585.4	2566.3	2483.9	2544.1	2641.6	3066.6	3642.2	3592.2	2613.1
47.5°	2779.6	2778.8	2808.9	2839.1	2754.2	2694.8	2732.8	3141.9	3734.9	3711.9	2669.4
50°	2753.4	2761.4	2800.2	2912.8	2957.2	2877.1	2818.4	3119.7	3776.9	3774.6	2717.8
52.5°	2395.1	2421.2	2486.3	2648.8	2872.4	2971.5	2908.0	3160.9	3797.6	3801.5	2789.9
55°	1823.5	1837.7	1961.4	2158.8	2406.2	2745.5	2872.4	3193.4	3813.4	3820.6	2877.1
56°	1581.7	1543.6	1722.0	1862.3	2158.0	2529.1	2782.0	3168.1	3803.9	3858.6	2920.7
57.5°	1194.0	1168.6	1312.9	1488.1	1772.7	2164.4	2501.3	3048.4	3739.7	3738.9	2858.1
60°	726.2	700.8	811.8	914.9	1074.3	1332.7	1690.3	2427.6	3161.7	3228.3	2314.2
62.5°	432.1	447.9	557.3	620.0	671.5	698.5	874.5	1442.9	2109.7	2157.2	1435.8
65°	287.8	293.3	375.8	478.9	501.8	399.6	356.0	584.3	914.9	885.6	592.2
67.5°	177.6	190.3	252.1	359.9	398.8	291.8	168.9	218.0	252.1	252.1	171.2
70°	107.8	114.2	168.1	245.0	273.5	187.9	122.9	122.9	121.3	118.9	102.3
72.5°	51.5	55.5	85.6	126.1	128.4	99.1	95.1	103.9	101.5	100.7	84.8
75°	22.2	23.8	30.1	39.6	45.2	42.0	57.9	74.5	76.9	74.5	61.0
77.5°	7.1	7.9	11.1	14.3	15.1	18.2	24.6	30.9	35.7	33.3	30.1
80°	0.8	1.6	3.2	7.1	11.1	14.3	18.2	20.6	23.0	23.0	21.4
82.5°	0.8	0.8	3.2	6.3	10.3	13.5	17.4	19.8	23.0	23.8	22.2
85°	0.0	0.8	2.4	5.5	8.7	8.7	7.9	7.9	5.5	5.5	5.5
87.5°	0.0	0.0	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.6	1.6
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°	715.9	715.9	715.9	715.9	715.9	715.9	715.9	715.9	715.9	715.9	715.9
2.5°	722.3	720.7	699.3	685.8	678.6	664.4	655.7	649.3	644.6	639.0	639.8
5°	731.8	726.2	690.5	666.0	636.6	620.8	607.3	596.2	589.1	587.5	584.3
7.5°	758.7	729.4	675.5	631.1	593.8	578.0	566.1	558.9	562.1	555.0	560.5
10°	779.3	735.7	657.2	593.0	555.8	543.9	537.5	543.1	551.0	547.8	543.9
12.5°	804.7	742.1	627.9	556.6	521.7	512.9	524.0	534.4	550.2	556.6	548.6
15°	833.2	749.2	590.6	514.5	492.3	499.5	518.5	536.7	552.6	560.5	565.3
17.5°	868.1	746.8	554.2	481.2	464.6	485.2	508.2	524.8	548.6	560.5	557.3
20°	900.6	738.9	513.7	447.9	448.7	467.8	486.8	513.7	526.4	542.3	536.7
22.5°	931.6	724.6	471.7	424.9	424.9	454.3	463.8	481.2	492.3	500.3	499.5
25°	975.2	697.7	436.8	402.7	412.3	431.3	439.2	444.8	440.0	446.4	447.1
27.5°	1006.1	669.9	408.3	382.9	400.4	414.6	412.3	409.1	398.0	389.3	394.8
30°	1039.4	637.4	383.7	369.4	379.0	391.6	382.1	372.6	355.2	340.9	341.7
32.5°	1086.9	622.4	362.3	353.6	366.3	367.9	357.6	343.3	325.8	312.4	311.6
35°	1175.7	612.8	344.1	343.3	345.7	346.5	336.2	318.7	311.6	300.5	304.4
37.5°	1264.5	608.1	331.4	328.2	327.4	328.2	316.3	299.7	313.2	312.4	314.0
40°	1377.9	629.5	313.2	309.2	310.0	310.0	294.9	290.2	314.0	316.3	317.1
42.5°	1492.9	656.4	301.3	288.6	291.8	291.8	283.8	278.3	294.9	279.1	276.7
45°	1592.8	696.1	288.6	268.0	275.9	279.9	277.5	268.0	257.7	230.7	230.7
47.5°	1625.3	731.0	273.5	248.1	254.5	271.9	264.8	245.0	226.7	204.5	203.0
50°	1682.3	769.0	261.6	225.2	238.6	260.0	252.9	233.1	212.5	196.6	197.4
52.5°	1741.0	812.6	239.4	198.2	214.9	250.5	250.5	228.3	196.6	185.5	183.9
55°	1829.0	811.0	199.8	162.5	191.9	236.3	240.2	204.5	176.0	167.3	167.3
56°	1841.7	774.6	180.0	152.2	181.6	232.3	233.1	198.2	168.1	158.6	158.6
57.5°	1746.6	699.3	157.8	139.5	168.9	225.2	226.0	192.7	161.7	148.3	146.7
60°	1343.8	473.3	131.6	124.5	153.0	203.0	206.9	175.2	141.9	131.6	130.8
62.5°	758.7	262.4	115.8	112.6	131.6	172.8	184.7	153.0	120.5	115.0	116.5
65°	346.5	144.3	97.5	91.2	106.2	133.2	149.0	126.1	99.1	92.8	92.8
67.5°	126.8	98.3	83.2	72.1	74.5	86.4	96.7	81.7	65.8	56.3	58.7
70°	90.4	82.5	72.9	62.6	57.9	56.3	55.5	46.0	32.5	25.4	27.0
72.5°	72.9	68.2	61.0	53.1	45.2	38.1	32.5	23.8	15.1	10.3	9.5
75°	52.3	49.9	44.4	38.1	31.7	27.0	22.2	15.1	7.9	4.0	4.0
77.5°	27.0	27.0	26.2	23.8	19.8	15.9	12.7	8.7	4.8	1.6	1.6
80°	20.6	22.2	23.0	20.6	18.2	14.3	10.3	6.3	3.2	0.8	0.8
82.5°	19.8	23.0	24.6	21.4	18.2	13.5	10.3	6.3	3.2	0.8	0.8
85°	4.8	4.8	7.1	7.9	10.3	11.1	8.7	5.5	2.4	0.8	0.8
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	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)