

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: P526133

Luminaire Tested: **GALN-SA1A-740-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526133
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-740-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 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: 2730 lumens
Efficiency: N/A
Efficacy: 82.7 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

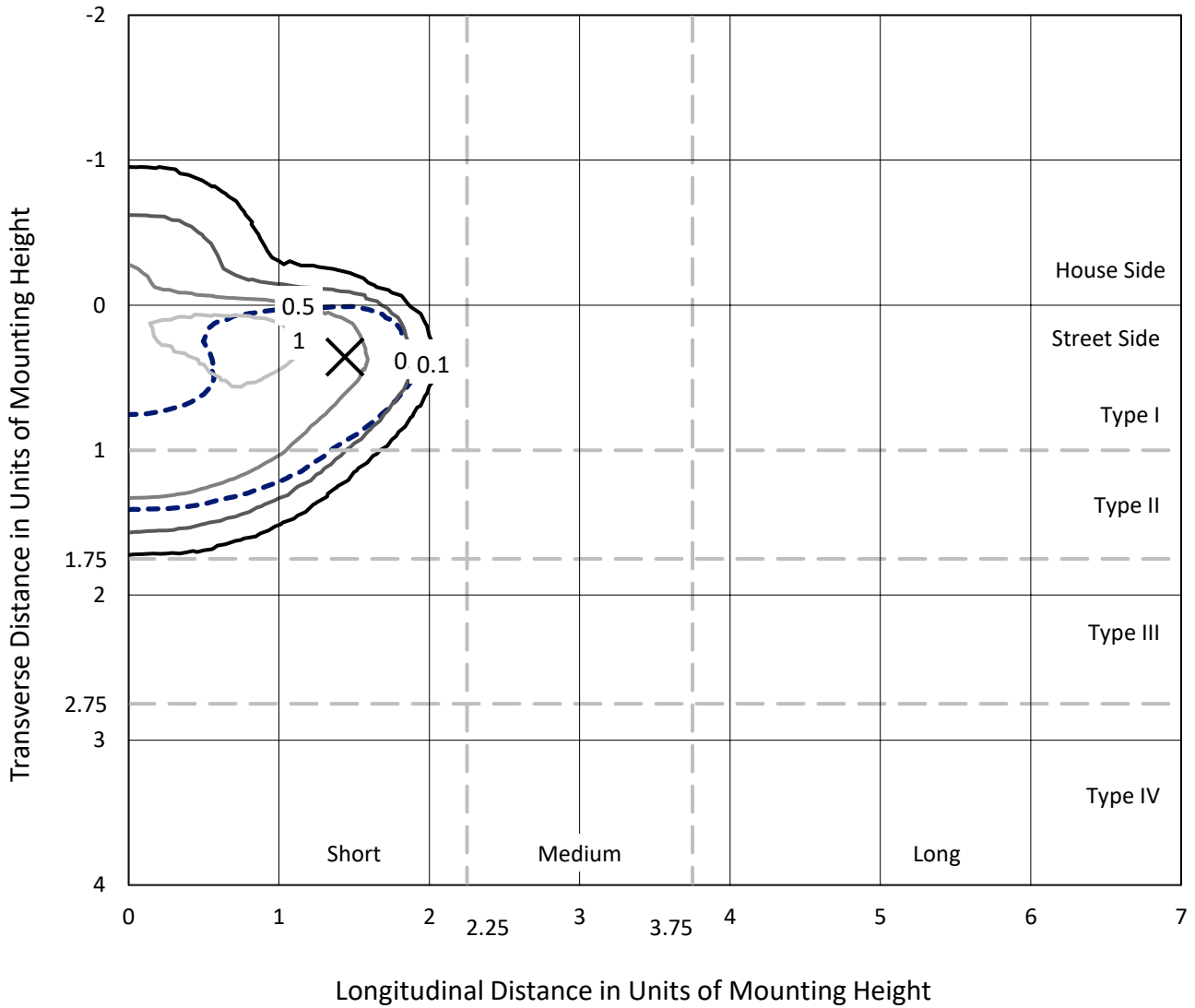
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

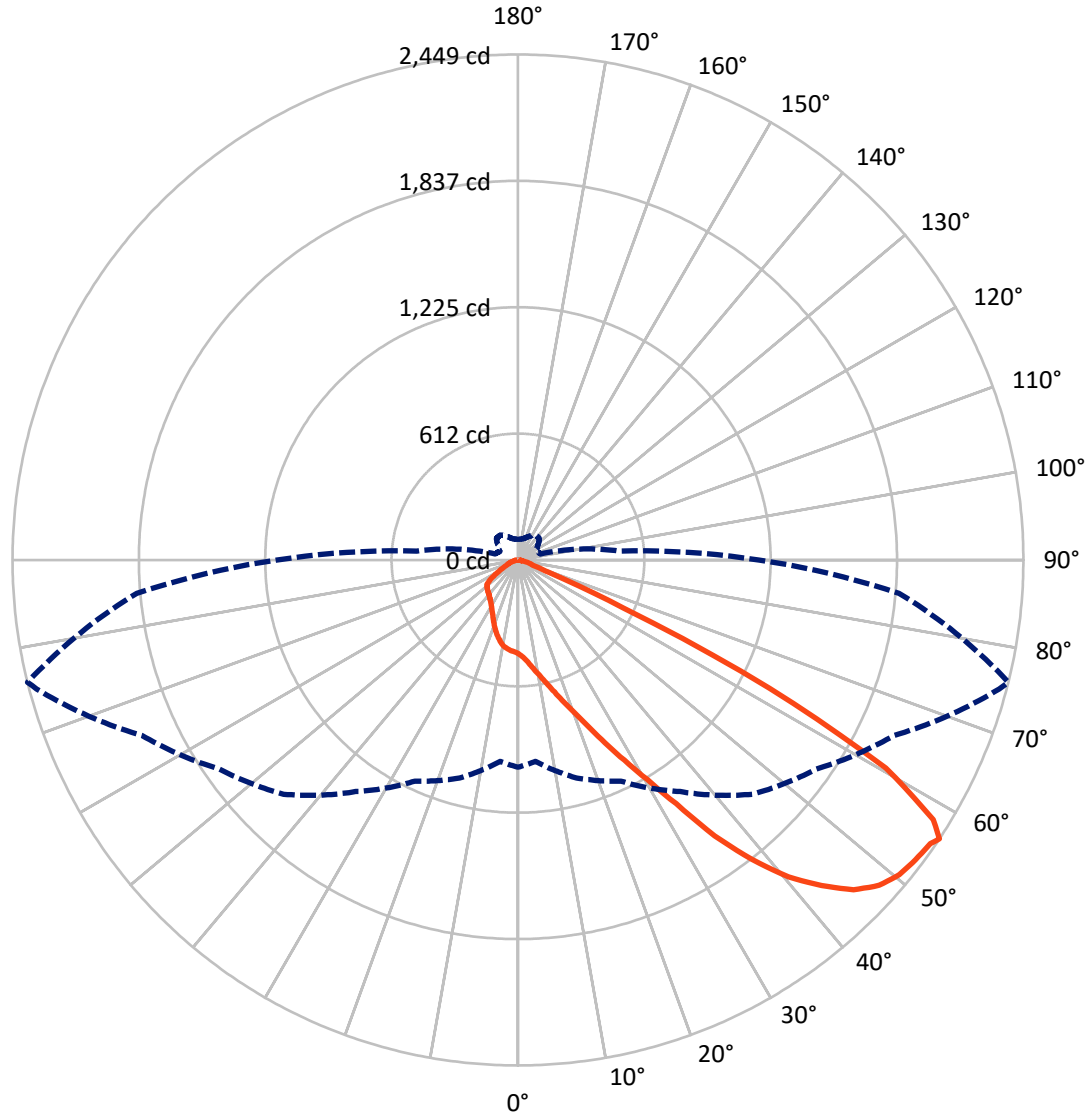
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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	428.9	0.0	428.9
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	2301.1	0.0	2301.1
	% Fixture	84.3	0.0	84.3
Total	Lumens	2730.0	0.0	2730.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.8	1.7
10°-20°	147.1	5.4
20°-30°	266.7	9.8
30°-40°	459.9	16.8
40°-50°	747.1	27.4
50°-60°	787.4	28.8
60°-70°	240.6	8.8
70°-80°	30.8	1.1
80°-90°	4.7	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°	2730.0	100.0
0°-180°	2730.0	100.0

Coefficient of Utilization

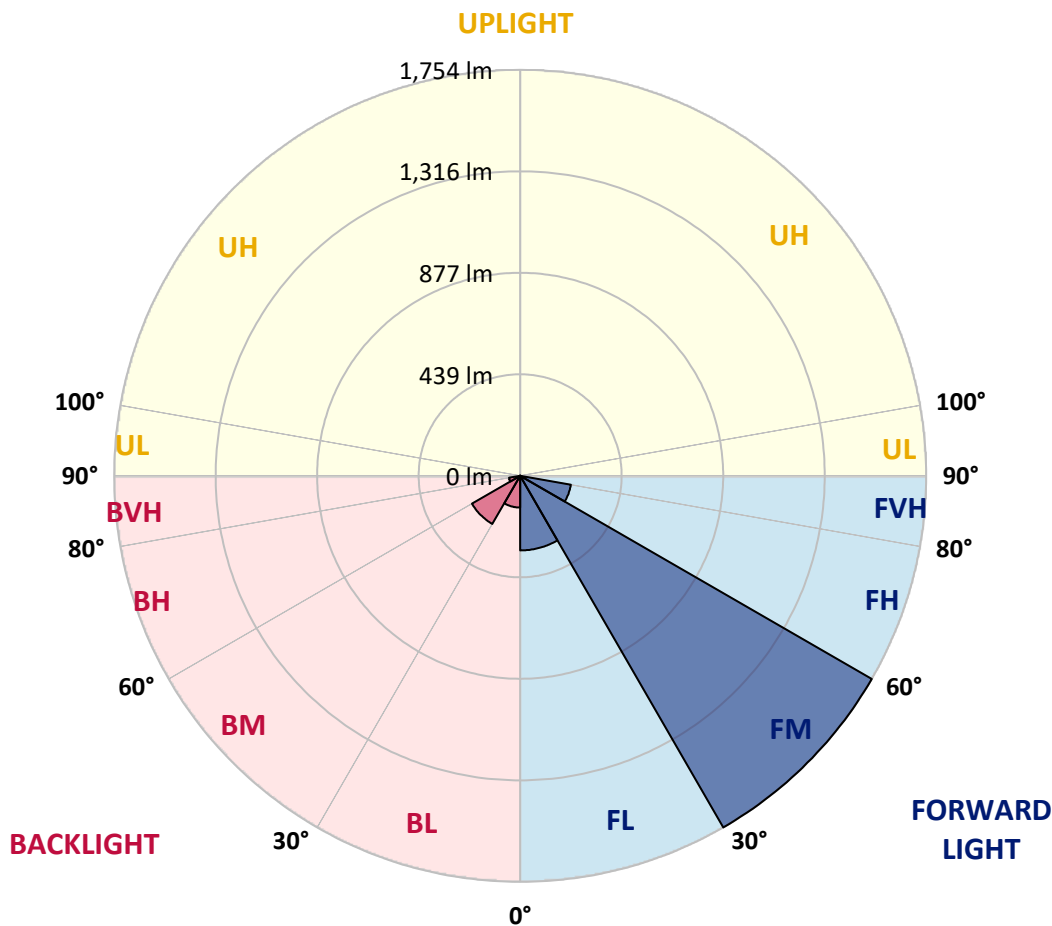


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	322.3	11.8			
FM (30°-60°)	1754.0	64.3			
FH (60°-80°)	222.5	8.2			G0/660
FVH (80°-90°)	2.3	0.1			G0/10
BL (0°-30°)	137.2	5.0	B1/500		
BM (30°-60°)	240.4	8.8	B1/1000		
BH (60°-80°)	48.9	1.8	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°	55°	65°	75°	76°	85°
0°	454.4	454.4	454.4	454.4	454.4	454.4	454.4	454.4	454.4	454.4	454.4
2.5°	523.4	511.3	511.8	510.8	509.3	503.7	487.1	484.6	473.5	470.5	460.5
5°	586.3	575.7	581.7	572.7	564.1	559.1	531.9	519.3	501.7	495.2	481.1
7.5°	625.5	620.5	618.5	619.0	610.9	598.3	586.3	558.6	534.9	529.9	500.2
10°	644.6	641.6	644.6	643.1	646.6	648.2	627.0	610.4	575.7	567.1	520.8
12.5°	649.2	655.2	657.7	664.3	672.8	687.4	685.9	663.3	617.0	611.4	552.5
15°	660.2	665.3	662.7	673.3	689.4	714.1	727.2	723.6	673.8	663.8	589.3
17.5°	670.3	661.2	669.8	690.9	707.0	744.8	776.5	791.1	735.7	724.1	623.0
20°	683.9	681.4	679.9	690.4	719.1	769.4	832.3	859.0	805.2	793.1	671.3
22.5°	725.1	725.7	724.6	709.0	729.7	786.5	881.1	947.1	888.2	878.1	726.2
25°	779.5	773.0	767.9	755.3	752.8	802.1	930.5	1054.8	987.8	980.8	785.5
27.5°	836.9	836.9	821.8	810.2	794.1	840.9	975.8	1159.4	1108.1	1098.5	837.4
30°	899.3	902.8	900.8	876.1	866.1	883.2	1022.1	1293.3	1246.0	1233.9	922.9
32.5°	991.4	983.8	992.4	971.7	942.0	957.1	1095.0	1413.1	1425.1	1408.0	1035.1
35°	1113.1	1108.6	1103.1	1069.4	1034.1	1046.2	1198.2	1560.5	1650.1	1641.5	1148.4
37.5°	1222.3	1219.8	1215.3	1192.1	1151.4	1166.0	1315.4	1714.0	1869.5	1841.3	1308.4
40°	1337.1	1350.7	1336.1	1315.4	1278.2	1310.4	1453.3	1805.1	2054.2	2019.9	1430.7
42.5°	1492.6	1482.0	1488.5	1450.8	1430.7	1465.9	1591.7	1896.2	2197.6	2156.8	1560.5
45°	1658.1	1658.6	1641.0	1628.9	1576.6	1614.9	1676.7	1946.5	2311.8	2280.1	1658.6
47.5°	1764.3	1763.8	1782.9	1802.1	1748.2	1710.5	1734.6	1994.3	2370.7	2356.1	1694.4
50°	1747.7	1752.7	1777.4	1848.9	1877.0	1826.2	1789.0	1980.2	2397.4	2395.9	1725.1
52.5°	1520.2	1536.9	1578.1	1681.3	1823.2	1886.1	1845.8	2006.4	2410.5	2413.0	1770.9
55°	1157.4	1166.5	1245.0	1370.3	1527.3	1742.7	1823.2	2027.0	2420.5	2425.0	1826.2
56°	1003.9	979.8	1093.0	1182.1	1369.8	1605.3	1765.8	2010.9	2414.5	2449.2	1853.9
57.5°	757.9	741.8	833.3	944.6	1125.2	1373.8	1587.7	1934.9	2373.7	2373.2	1814.1
60°	461.0	444.9	515.3	580.7	681.9	845.9	1072.9	1540.9	2006.9	2049.1	1468.9
62.5°	274.3	284.3	353.8	393.5	426.2	443.3	555.1	915.9	1339.1	1369.3	911.3
65°	182.7	186.2	238.5	303.9	318.5	253.6	225.9	370.9	580.7	562.1	375.9
67.5°	112.7	120.8	160.0	228.5	253.1	185.2	107.2	138.4	160.0	160.0	108.7
70°	68.4	72.5	106.7	155.5	173.6	119.3	78.0	78.0	77.0	75.5	64.9
72.5°	32.7	35.2	54.3	80.0	81.5	62.9	60.4	65.9	64.4	63.9	53.8
75°	14.1	15.1	19.1	25.2	28.7	26.7	36.7	47.3	48.8	47.3	38.7
77.5°	4.5	5.0	7.0	9.1	9.6	11.6	15.6	19.6	22.6	21.1	19.1
80°	0.5	1.0	2.0	4.5	7.0	9.1	11.6	13.1	14.6	14.6	13.6
82.5°	0.5	0.5	2.0	4.0	6.5	8.6	11.1	12.6	14.6	15.1	14.1
85°	0.0	0.5	1.5	3.5	5.5	5.5	5.0	5.0	3.5	3.5	3.5
87.5°	0.0	0.0	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0
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°	454.4	454.4	454.4	454.4	454.4	454.4	454.4	454.4	454.4	454.4	454.4
2.5°	458.4	457.4	443.8	435.3	430.8	421.7	416.2	412.1	409.1	405.6	406.1
5°	464.5	461.0	438.3	422.7	404.1	394.0	385.5	378.4	373.9	372.9	370.9
7.5°	481.6	463.0	428.7	400.6	376.9	366.9	359.3	354.8	356.8	352.3	355.8
10°	494.7	467.0	417.2	376.4	352.8	345.2	341.2	344.7	349.7	347.7	345.2
12.5°	510.8	471.0	398.6	353.3	331.1	325.6	332.6	339.2	349.2	353.3	348.2
15°	528.9	475.5	374.9	326.6	312.5	317.0	329.1	340.7	350.7	355.8	358.8
17.5°	551.0	474.0	351.8	305.5	294.9	308.0	322.6	333.1	348.2	355.8	353.8
20°	571.7	469.0	326.1	284.3	284.8	296.9	309.0	326.1	334.1	344.2	340.7
22.5°	591.3	459.9	299.4	269.7	269.7	288.3	294.4	305.5	312.5	317.5	317.0
25°	619.0	442.8	277.3	255.6	261.7	273.8	278.8	282.3	279.3	283.3	283.8
27.5°	638.6	425.2	259.2	243.1	254.1	263.2	261.7	259.7	252.6	247.1	250.6
30°	659.7	404.6	243.6	234.5	240.5	248.6	242.6	236.5	225.4	216.4	216.9
32.5°	689.9	395.0	230.0	224.4	232.5	233.5	227.0	217.9	206.8	198.3	197.8
35°	746.3	389.0	218.4	217.9	219.4	219.9	213.4	202.3	197.8	190.7	193.2
37.5°	802.6	386.0	210.3	208.3	207.8	208.3	200.8	190.2	198.8	198.3	199.3
40°	874.6	399.6	198.8	196.3	196.8	196.8	187.2	184.2	199.3	200.8	201.3
42.5°	947.6	416.7	191.2	183.2	185.2	185.2	180.2	176.6	187.2	177.1	175.6
45°	1011.0	441.8	183.2	170.1	175.1	177.6	176.1	170.1	163.5	146.4	146.4
47.5°	1031.6	464.0	173.6	157.5	161.5	172.6	168.1	155.5	143.9	129.8	128.8
50°	1067.8	488.1	166.1	142.9	151.5	165.1	160.5	147.9	134.9	124.8	125.3
52.5°	1105.1	515.8	152.0	125.8	136.4	159.0	159.0	144.9	124.8	117.8	116.7
55°	1160.9	514.8	126.8	103.2	121.8	150.0	152.5	129.8	111.7	106.2	106.2
56°	1169.0	491.7	114.2	96.6	115.2	147.4	147.9	125.8	106.7	100.6	100.6
57.5°	1108.6	443.8	100.1	88.6	107.2	142.9	143.4	122.3	102.7	94.1	93.1
60°	853.0	300.4	83.5	79.0	97.1	128.8	131.3	111.2	90.1	83.5	83.0
62.5°	481.6	166.6	73.5	71.5	83.5	109.7	117.3	97.1	76.5	73.0	74.0
65°	219.9	91.6	61.9	57.9	67.4	84.5	94.6	80.0	62.9	58.9	58.9
67.5°	80.5	62.4	52.8	45.8	47.3	54.9	61.4	51.8	41.8	35.7	37.2
70°	57.4	52.3	46.3	39.8	36.7	35.7	35.2	29.2	20.6	16.1	17.1
72.5°	46.3	43.3	38.7	33.7	28.7	24.2	20.6	15.1	9.6	6.5	6.0
75°	33.2	31.7	28.2	24.2	20.1	17.1	14.1	9.6	5.0	2.5	2.5
77.5°	17.1	17.1	16.6	15.1	12.6	10.1	8.1	5.5	3.0	1.0	1.0
80°	13.1	14.1	14.6	13.1	11.6	9.1	6.5	4.0	2.0	0.5	0.5
82.5°	12.6	14.6	15.6	13.6	11.6	8.6	6.5	4.0	2.0	0.5	0.5
85°	3.0	3.0	4.5	5.0	6.5	7.0	5.5	3.5	1.5	0.5	0.5
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	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)