

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P631753

Luminaire Tested: GWS-SA2B-735-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631753
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-735-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6175 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

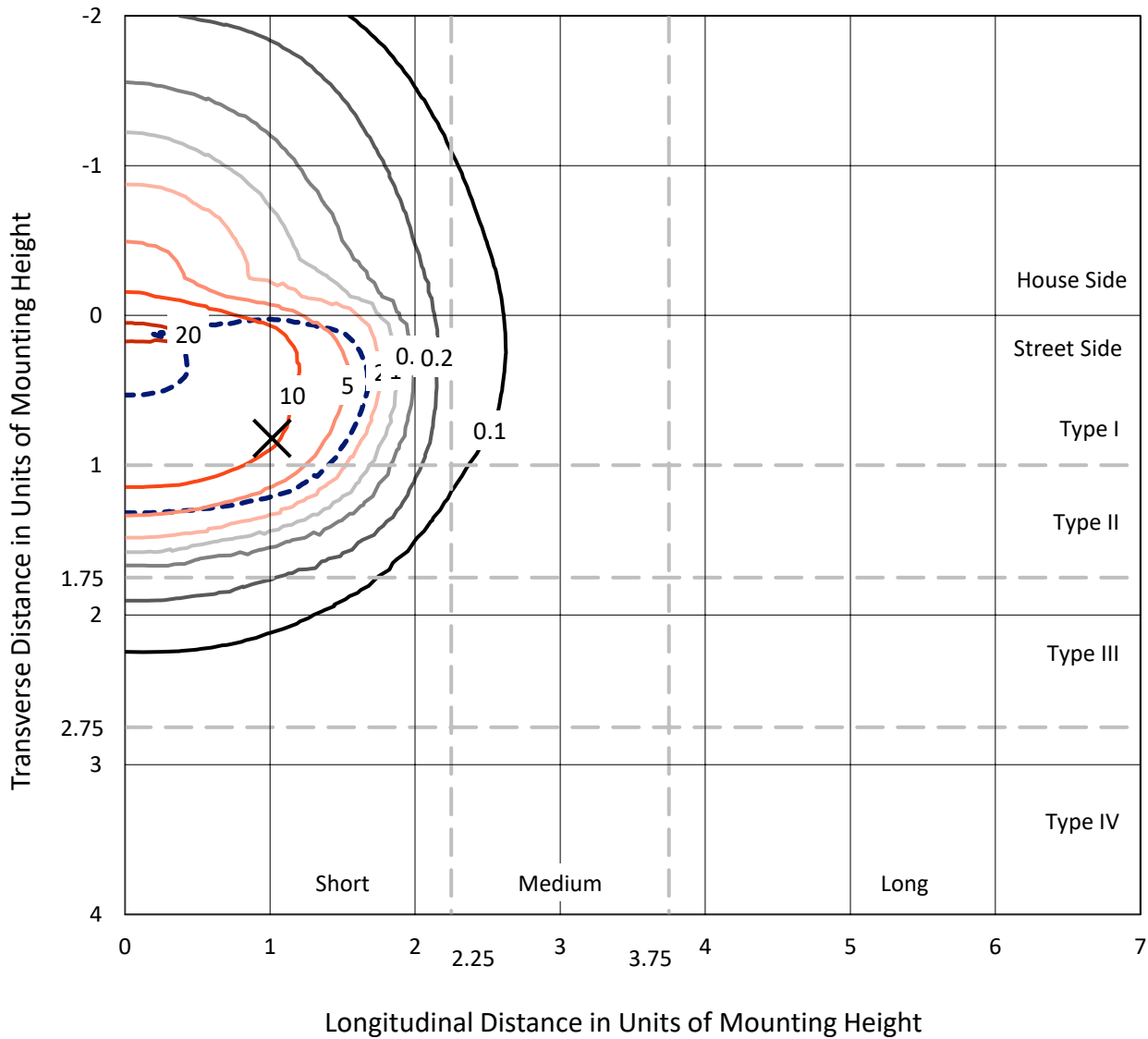
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

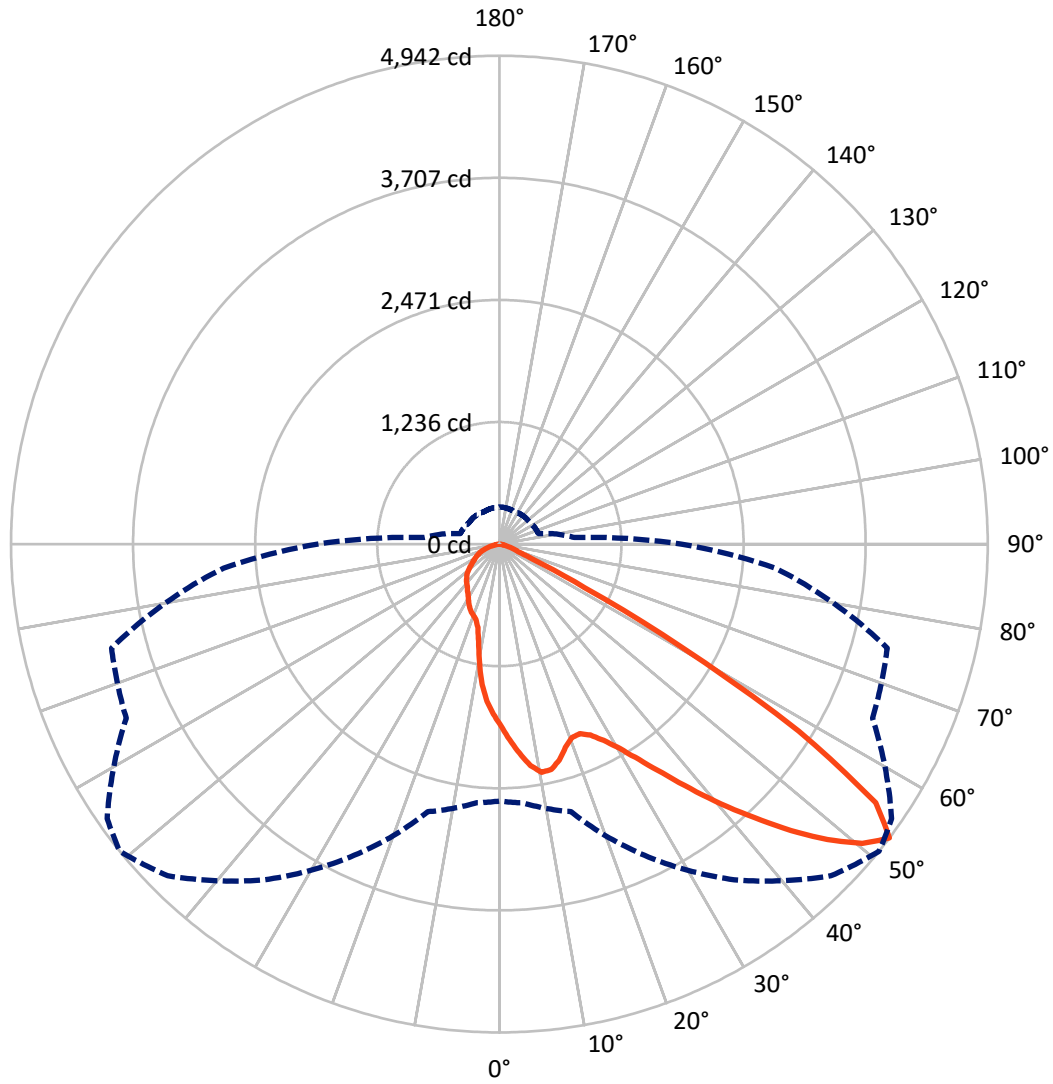
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1203.2	0.0	1203.2
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	4971.8	0.0	4971.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	6175.0	0.0	6175.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.6	2.8
10°-20°	445.8	7.2
20°-30°	724.8	11.7
30°-40°	1148.7	18.6
40°-50°	1732.5	28.1
50°-60°	1498.7	24.3
60°-70°	339.8	5.5
70°-80°	100.2	1.6
80°-90°	12.9	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°	6175.0	100.0
0°-180°	6175.0	100.0

Coefficient of Utilization



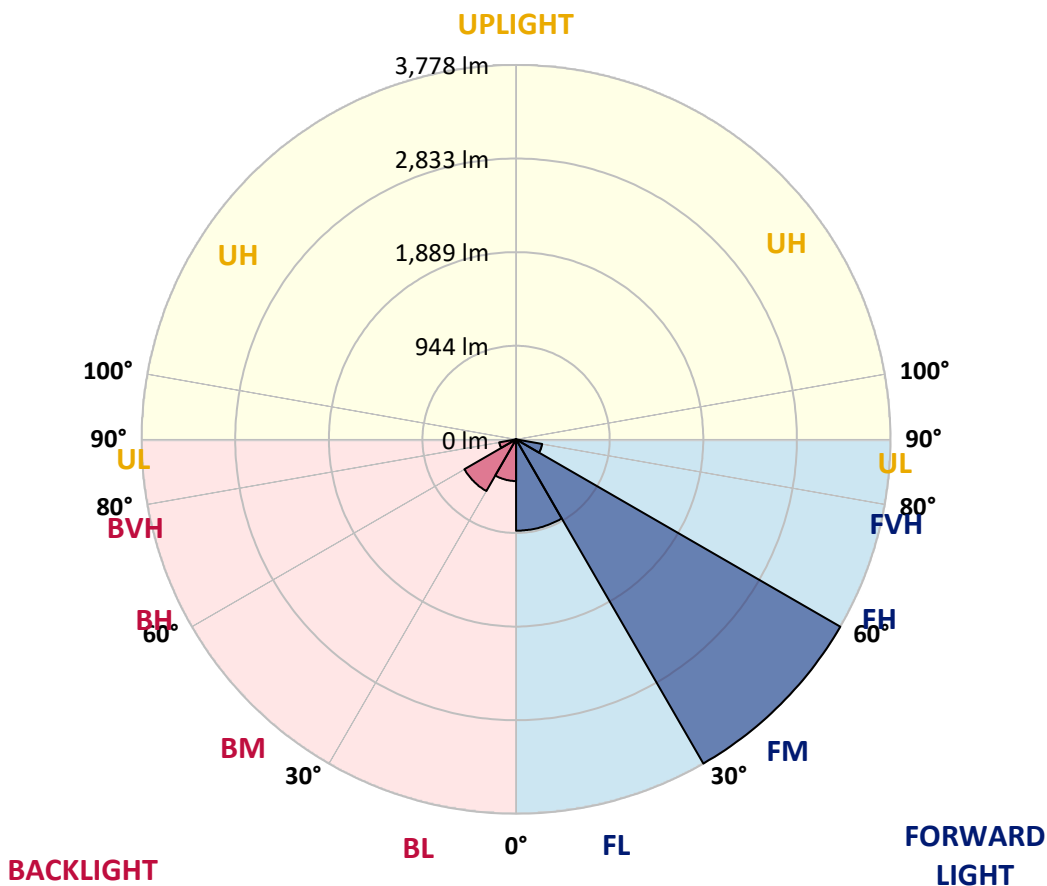
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	921.6	14.9			
FM (30°-60°)	3778.0	61.2			
FH (60°-80°)	267.4	4.3			G0/660
FVH (80°-90°)	4.9	0.1			G0/10
BL (0°-30°)	420.6	6.8	B1/500		
BM (30°-60°)	602.0	9.7	B1/1000		
BH (60°-80°)	172.6	2.8	B1/500		G1/500
BVH (80°-90°)	8.0	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	1838.6	1838.6	1838.6	1838.6	1838.6	1838.6	1838.6	1838.6	1838.6	1838.6	1838.6
2.5°	2048.9	2060.6	2042.6	2035.7	2024.5	2005.0	1982.6	1976.2	1927.9	1896.2	1860.6
5°	2254.8	2261.2	2246.5	2231.9	2204.1	2169.4	2126.0	2116.7	2028.9	1956.2	1880.6
7.5°	2300.7	2298.3	2310.9	2319.2	2315.8	2302.2	2263.6	2245.6	2140.6	2025.5	1913.8
10°	2119.2	2105.5	2152.4	2208.0	2274.8	2351.9	2347.5	2346.1	2254.8	2118.7	1956.2
12.5°	1878.6	1871.8	1909.8	1979.6	2106.0	2276.8	2340.7	2390.5	2357.8	2207.5	2003.5
15°	1741.0	1738.6	1764.4	1814.7	1915.2	2130.9	2267.5	2366.1	2446.1	2302.6	2053.8
17.5°	1716.1	1717.6	1726.4	1755.2	1827.4	2005.0	2163.1	2300.7	2514.9	2407.1	2116.7
20°	1788.8	1798.6	1783.5	1787.9	1826.9	1959.6	2091.9	2234.8	2558.8	2512.0	2184.6
22.5°	1950.3	1946.9	1913.8	1894.2	1894.7	1987.4	2084.0	2204.1	2587.6	2614.0	2246.0
25°	2133.3	2129.4	2089.9	2046.5	2019.1	2063.1	2140.2	2236.8	2613.5	2707.2	2295.3
27.5°	2349.5	2337.3	2293.4	2237.8	2177.2	2196.3	2248.5	2325.1	2653.5	2798.9	2328.0
30°	2558.8	2573.0	2510.0	2444.2	2380.2	2368.5	2398.8	2468.1	2735.0	2906.2	2367.1
32.5°	2836.5	2831.6	2761.8	2675.9	2584.7	2575.9	2599.8	2663.2	2881.4	3054.6	2426.6
35°	3172.7	3173.6	3074.6	2958.5	2828.7	2805.2	2845.3	2906.7	3099.5	3255.6	2520.8
37.5°	3522.0	3520.6	3434.2	3302.5	3125.3	3092.2	3138.0	3183.9	3372.2	3529.4	2667.1
40°	3767.0	3776.8	3736.3	3667.0	3499.1	3418.1	3458.6	3490.3	3668.9	3851.4	2859.9
42.5°	3906.1	3920.7	3929.5	3971.0	3882.6	3796.3	3781.6	3798.2	3933.9	4150.5	3040.9
45°	3935.8	3955.3	4019.3	4173.0	4207.1	4182.7	4134.9	4094.9	4131.5	4362.8	3159.5
47.5°	3804.6	3838.7	3975.4	4244.2	4443.8	4520.4	4467.2	4406.2	4245.7	4417.4	3147.3
50°	3284.4	3324.4	3632.3	4098.8	4477.5	4756.6	4761.4	4671.2	4232.0	4259.8	2994.1
52.5°	2600.3	2627.6	2803.8	3474.7	4147.1	4746.8	4942.0	4845.4	4166.1	4062.7	2802.3
55°	1554.1	1598.0	1762.5	2292.4	3230.7	4207.1	4622.9	4669.7	4133.9	3897.3	2671.5
57.5°	524.5	546.0	703.1	1012.5	1904.0	3080.4	3571.8	3762.1	3752.8	3644.5	2416.3
60°	249.8	254.7	286.4	384.0	762.2	1609.8	2114.3	2333.9	2533.9	2553.9	1503.4
62.5°	190.3	193.2	209.3	230.3	306.4	678.3	969.1	1136.9	1214.5	1042.3	547.5
65°	159.1	161.5	173.7	186.9	208.4	293.7	371.8	428.9	386.5	301.1	261.1
67.5°	132.7	134.7	143.9	158.1	172.7	196.6	206.4	212.3	222.5	249.8	240.1
70°	103.9	105.9	115.6	127.8	142.0	147.8	157.1	163.0	183.5	218.6	217.6
72.5°	80.0	82.5	87.8	95.6	107.3	113.2	123.5	130.3	142.0	170.3	182.0
75°	58.6	60.0	64.9	67.3	68.8	67.3	77.6	85.4	101.0	111.7	114.7
77.5°	23.9	26.8	25.9	25.9	30.7	37.1	42.5	47.3	58.1	64.4	64.9
80°	9.8	10.7	12.7	14.2	17.1	22.0	25.4	27.3	32.2	36.1	39.0
82.5°	5.9	6.3	7.3	7.8	9.8	12.7	14.6	16.1	20.0	23.9	25.4
85°	2.9	2.9	3.4	3.9	4.9	5.9	6.8	7.8	10.2	12.7	14.2
87.5°	0.5	0.5	0.5	1.0	1.5	2.0	2.4	2.9	3.4	3.9	4.9
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°	1838.6	1838.6	1838.6	1838.6	1838.6	1838.6	1838.6	1838.6	1838.6	1838.6	1838.6
2.5°	1839.6	1813.2	1782.5	1758.1	1729.8	1708.8	1679.0	1660.5	1642.9	1628.3	1617.6
5°	1841.5	1797.1	1733.2	1676.6	1618.1	1562.4	1505.3	1459.0	1417.5	1382.9	1379.9
7.5°	1852.8	1788.8	1688.8	1589.7	1475.6	1365.3	1255.0	1165.2	1096.9	1061.3	1054.0
10°	1871.8	1787.9	1643.4	1485.3	1290.6	1113.0	982.2	913.9	874.4	860.3	855.4
12.5°	1891.8	1785.4	1585.4	1338.0	1067.6	912.0	840.3	832.0	839.3	840.3	839.8
15°	1916.2	1784.0	1512.2	1165.2	904.7	818.8	823.7	841.2	858.3	862.2	862.2
17.5°	1946.0	1780.5	1412.6	996.4	802.7	800.7	826.6	850.0	866.1	869.0	869.0
20°	1977.2	1771.8	1290.1	858.8	761.2	789.5	817.3	835.4	846.6	850.5	851.0
22.5°	1998.7	1748.3	1149.1	756.8	735.3	768.0	788.0	806.6	806.6	796.8	793.9
25°	2003.0	1698.1	996.4	687.0	704.6	734.9	755.4	744.6	724.6	716.8	716.3
27.5°	1986.9	1624.9	845.6	637.3	667.5	697.8	694.4	678.7	670.0	662.2	665.1
30°	1967.4	1537.1	714.9	596.3	624.6	654.3	642.6	637.3	630.9	622.1	624.1
32.5°	1954.3	1439.0	614.3	564.6	595.8	600.7	609.0	608.5	602.6	586.0	585.1
35°	1958.2	1339.9	547.0	538.7	571.9	569.9	585.5	582.6	542.1	519.2	517.7
37.5°	1989.4	1244.8	507.5	518.2	533.8	546.0	559.7	524.5	510.4	495.8	496.7
40°	2048.9	1156.4	486.0	507.0	510.9	528.9	497.2	496.7	490.4	477.2	476.7
42.5°	2116.3	1081.8	471.4	501.6	496.2	499.7	466.0	469.9	469.4	461.1	458.7
45°	2157.2	1013.0	459.7	481.6	483.1	448.9	438.7	443.1	445.5	441.1	440.6
47.5°	2114.8	933.9	447.5	450.9	463.6	426.0	413.3	413.8	418.2	418.7	416.7
50°	1995.7	845.6	432.8	424.5	416.2	402.1	390.4	387.9	392.3	396.7	398.2
52.5°	1842.0	761.2	408.4	395.7	376.2	376.2	370.8	363.0	368.9	374.7	376.7
55°	1729.3	698.7	373.8	359.6	338.2	345.5	344.5	337.7	345.5	349.9	351.3
57.5°	1498.5	561.6	328.9	324.5	306.4	315.2	317.2	308.4	304.5	305.5	306.9
60°	889.5	362.5	296.7	296.2	280.1	290.3	296.2	287.4	275.7	277.2	279.1
62.5°	399.1	277.2	256.2	254.2	253.7	266.9	273.3	265.0	248.4	249.8	251.8
65°	251.3	239.6	222.5	222.5	230.3	241.5	246.4	239.6	220.6	218.1	220.1
67.5°	233.2	223.0	205.4	202.0	205.9	215.2	215.7	202.5	191.3	189.3	189.3
70°	209.3	201.5	184.4	177.6	176.2	175.7	174.2	170.8	163.5	161.5	162.5
72.5°	173.2	167.9	157.1	149.8	145.9	145.4	139.6	136.6	130.3	129.3	128.8
75°	114.7	116.1	116.1	115.2	111.7	110.3	103.9	101.0	93.7	90.8	90.3
77.5°	67.8	69.3	71.2	71.7	71.2	71.2	65.4	62.0	54.7	50.7	49.8
80°	41.5	42.5	43.4	44.9	42.9	41.5	36.1	32.7	29.3	26.8	26.3
82.5°	26.8	27.8	28.3	29.3	28.3	26.3	22.0	20.0	17.6	15.6	15.1
85°	15.1	15.6	16.6	16.6	15.1	13.7	11.2	9.8	8.3	7.3	7.3
87.5°	5.4	5.4	5.4	5.9	4.9	4.4	2.9	2.0	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

(END OF REPORT)