

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: P639050

Luminaire Tested: GWS-SA5B-722-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639050
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-722-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8202.9 lumens
Efficiency: N/A
Efficacy: 70.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

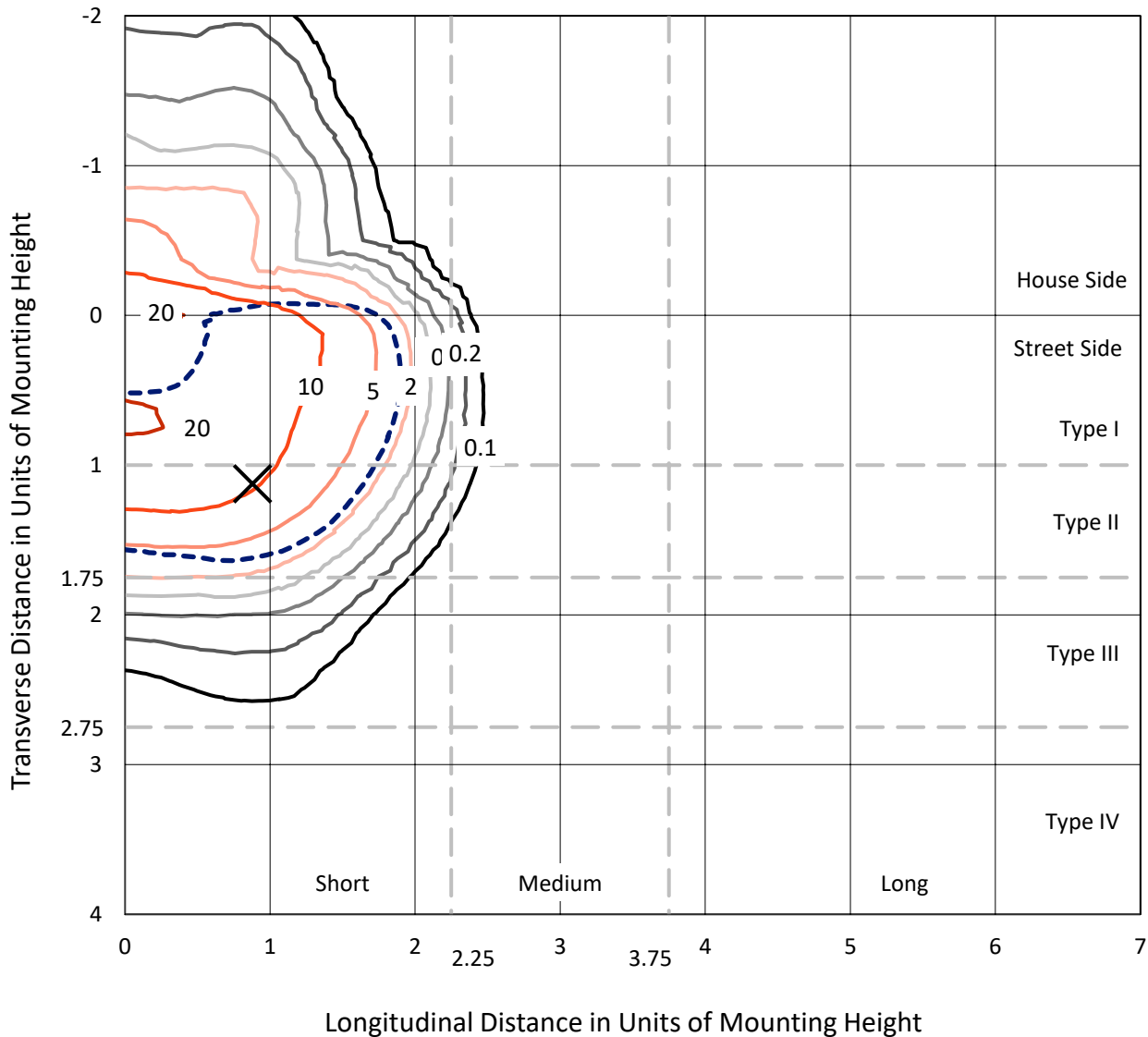
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

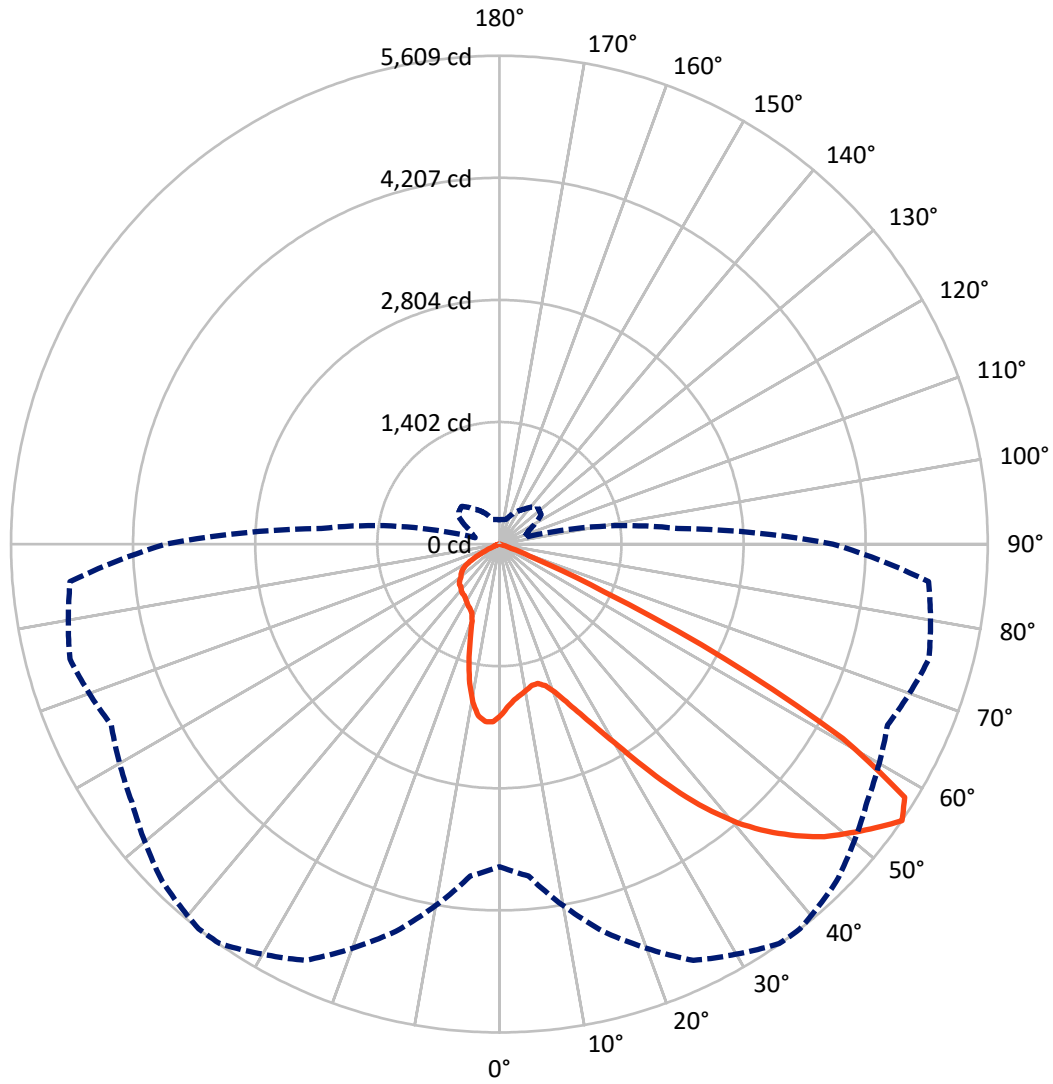
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1598.2	0.0	1598.2
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	6604.7	0.0	6604.7
	% Fixture	80.5	0.0	80.5
Total	Lumens	8202.9	0.0	8202.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.9	2.2
10°-20°	489.7	6.0
20°-30°	840.3	10.2
30°-40°	1393.7	17.0
40°-50°	2048.8	25.0
50°-60°	2394.0	29.2
60°-70°	811.5	9.9
70°-80°	41.5	0.5
80°-90°	1.6	0.0
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°	8202.9	100.0
0°-180°	8202.9	100.0

Coefficient of Utilization



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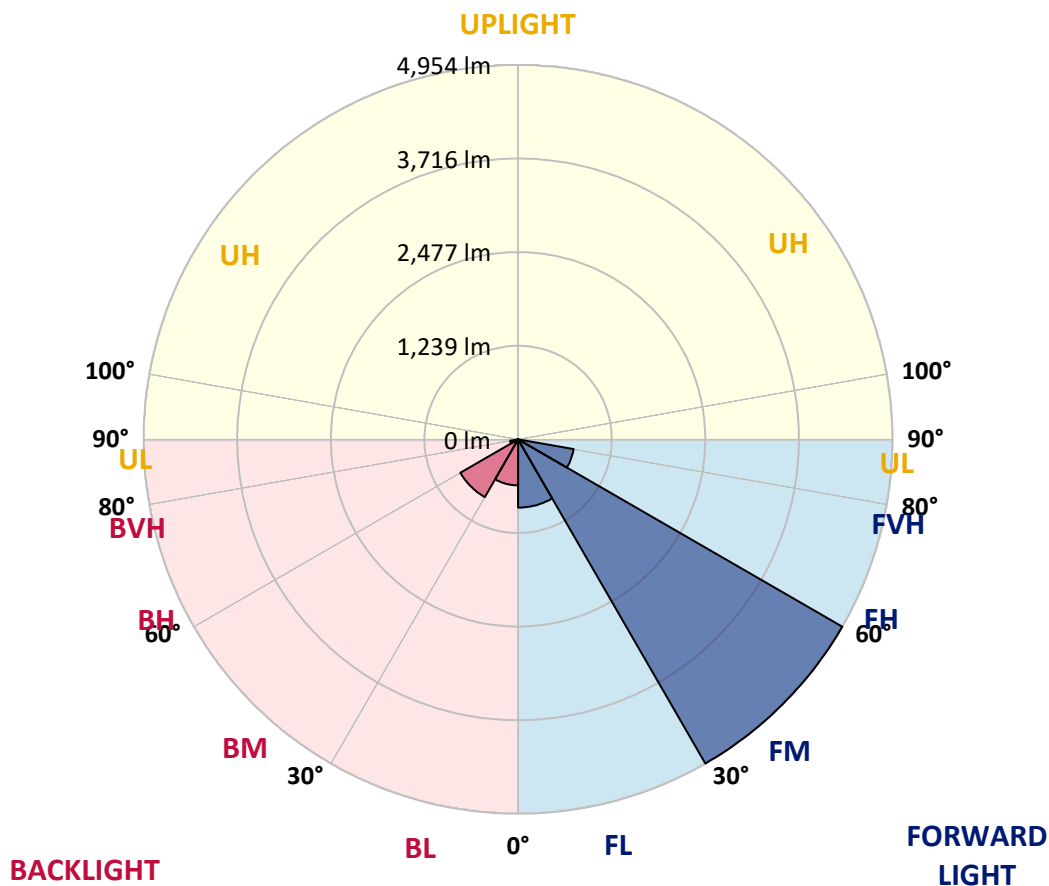
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	902.9	11.0			
FM (30°-60°)	4954.3	60.4			
FH (60°-80°)	746.6	9.1			G1/1800
FVH (80°-90°)	0.9	0.0			G0/10
BL (0°-30°)	608.9	7.4	B2/1000		
BM (30°-60°)	882.1	10.8	B1/1000		
BH (60°-80°)	106.4	1.3	B0/110		G0/110
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1967.1	1967.1	1967.1	1967.1	1967.1	1967.1	1967.1	1967.1	1967.1	1967.1	1967.1
2.5°	1832.1	1828.4	1835.9	1850.9	1864.9	1869.6	1883.7	1903.4	1915.5	1944.6	1968.1
5°	1749.6	1747.7	1755.2	1768.3	1787.1	1793.7	1815.2	1848.0	1880.9	1931.5	1981.2
7.5°	1674.6	1673.6	1684.9	1714.0	1741.2	1749.6	1775.8	1816.2	1860.2	1938.1	2011.2
10°	1576.1	1577.1	1598.6	1639.9	1689.6	1706.5	1748.7	1806.8	1864.0	1964.3	2065.6
12.5°	1544.3	1546.1	1557.4	1589.3	1643.6	1665.2	1724.3	1812.4	1885.5	2001.8	2135.9
15°	1622.1	1622.1	1612.7	1616.4	1640.8	1660.5	1722.4	1831.2	1922.1	2046.8	2205.3
17.5°	1773.0	1767.4	1744.0	1712.1	1703.6	1710.2	1759.9	1871.5	1973.7	2099.3	2284.0
20°	1977.4	1979.3	1933.4	1866.8	1813.3	1812.4	1842.4	1942.7	2047.8	2162.1	2369.4
22.5°	2225.0	2217.5	2156.5	2065.6	1972.7	1965.2	1977.4	2051.5	2154.6	2261.5	2474.4
25°	2511.9	2508.1	2421.9	2300.0	2177.1	2159.3	2159.3	2232.5	2307.5	2403.1	2600.0
27.5°	2811.9	2811.9	2728.5	2587.8	2424.7	2392.8	2388.1	2474.4	2524.1	2542.8	2706.0
30°	3120.4	3116.6	3034.1	2889.7	2715.3	2682.5	2669.4	2733.2	2768.8	2712.5	2838.2
32.5°	3433.5	3440.1	3356.7	3222.6	3066.9	3045.4	3005.1	3005.1	3034.1	2955.4	3046.3
35°	3770.2	3768.3	3702.6	3611.7	3478.6	3454.2	3387.6	3283.5	3327.6	3292.9	3334.2
37.5°	4067.4	4081.4	4049.6	3982.1	3874.2	3849.9	3740.1	3551.7	3585.4	3639.8	3676.4
40°	4369.3	4380.5	4412.4	4390.9	4254.9	4209.9	4014.9	3705.5	3743.0	3929.5	4034.6
42.5°	4665.6	4671.2	4735.9	4771.5	4589.6	4510.9	4223.0	3799.2	3838.6	4156.5	4340.2
45°	4854.0	4866.2	4973.1	5081.9	4885.0	4777.2	4404.0	3919.2	3936.1	4314.0	4566.2
47.5°	4846.5	4874.7	5075.3	5273.2	5139.1	5022.8	4621.5	4111.4	4083.3	4462.1	4715.3
50°	4695.6	4729.3	5017.2	5331.3	5321.9	5214.1	4863.4	4389.9	4301.8	4593.4	4734.0
52.5°	4382.4	4479.9	4915.0	5338.8	5469.1	5414.7	5162.5	4765.0	4597.1	4781.8	4764.0
55°	3705.5	3825.5	4604.6	5275.0	5602.3	5608.8	5476.6	5156.0	4917.8	5106.3	4948.7
57.5°	2812.8	2908.5	3544.2	4695.6	5381.9	5489.7	5598.5	5362.2	5115.6	5327.5	4991.9
60°	1695.2	1805.8	2219.3	3445.7	4346.8	4530.6	4957.2	4911.2	4614.0	4705.0	4093.6
62.5°	687.3	745.4	1024.8	1898.7	2736.0	2907.5	3316.3	3385.7	3312.6	3219.8	2482.8
65°	251.3	274.7	410.7	784.8	1258.3	1321.1	1536.8	1659.6	1760.8	1499.2	923.6
67.5°	155.6	170.6	267.2	403.2	457.6	425.7	433.2	516.6	493.2	304.7	165.0
70°	115.3	127.5	209.1	279.4	184.7	142.5	96.6	103.1	92.8	81.6	80.6
72.5°	79.7	90.9	156.6	165.0	71.3	50.6	35.6	49.7	56.3	55.3	57.2
75°	52.5	60.9	98.4	64.7	17.8	14.1	12.2	26.3	33.8	33.8	34.7
77.5°	30.9	35.6	34.7	13.1	3.8	3.8	2.8	4.7	7.5	8.4	10.3
80°	3.8	2.8	1.9	1.9	1.9	1.9	1.9	1.9	2.8	2.8	2.8
82.5°	0.9	0.9	0.9	1.9	1.9	1.9	1.9	1.9	1.9	2.8	2.8
85°	0.0	0.0	0.9	0.9	1.9	1.9	1.9	1.9	1.9	2.8	2.8
87.5°	0.0	0.0	0.9	0.9	1.9	1.9	1.9	1.9	1.9	2.8	2.8
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°	1967.1	1967.1	1967.1	1967.1	1967.1	1967.1	1967.1	1967.1	1967.1	1967.1	1967.1
2.5°	1985.9	1979.3	2006.5	2026.2	2042.1	2049.6	2039.3	2038.4	2038.4	2017.7	2012.1
5°	2009.3	2012.1	2050.6	2067.4	2070.3	2060.9	2037.4	2021.5	2012.1	1990.6	1978.4
7.5°	2054.3	2063.7	2100.3	2097.4	2072.1	2029.0	1967.1	1919.3	1888.4	1854.6	1834.0
10°	2119.0	2136.8	2159.3	2119.9	2039.3	1929.6	1802.1	1711.1	1656.8	1618.3	1594.9
12.5°	2197.8	2215.6	2208.1	2115.3	1947.4	1751.5	1587.4	1456.1	1393.3	1358.6	1334.2
15°	2277.5	2288.7	2240.0	2059.0	1785.2	1521.8	1338.9	1208.6	1131.7	1103.6	1082.9
17.5°	2359.0	2356.2	2245.6	1948.4	1568.6	1263.0	1082.9	993.9	972.3	967.6	965.7
20°	2444.4	2419.0	2223.1	1789.9	1308.0	1007.0	904.8	910.4	949.8	968.6	972.3
22.5°	2541.9	2478.1	2166.8	1575.2	1041.7	839.2	849.5	904.8	958.2	983.6	987.3
25°	2646.0	2532.5	2073.1	1299.5	821.4	771.7	832.6	896.4	953.6	984.5	988.2
27.5°	2714.4	2545.6	1919.3	1022.0	705.1	745.4	810.1	871.0	930.1	963.9	968.6
30°	2788.5	2540.0	1710.2	787.6	665.7	722.9	779.2	834.5	888.9	926.4	930.1
32.5°	2897.2	2536.3	1455.2	639.5	649.8	705.1	746.3	792.3	829.8	851.4	848.5
35°	3039.8	2531.6	1158.0	576.6	640.4	691.0	723.8	745.4	704.1	691.0	693.8
37.5°	3222.6	2542.8	907.6	550.4	637.6	687.3	715.4	653.5	589.8	565.4	561.6
40°	3425.1	2571.9	692.0	540.1	647.0	696.6	683.5	581.3	502.6	454.7	444.4
42.5°	3628.6	2603.8	547.6	536.3	662.9	722.9	631.0	528.8	410.7	383.5	379.7
45°	3779.5	2598.1	473.5	529.8	677.0	737.9	617.0	453.8	366.6	354.4	355.4
47.5°	3855.5	2536.3	433.2	514.8	682.6	722.9	582.3	422.9	336.6	349.7	361.0
50°	3815.2	2375.9	395.7	485.7	670.4	703.2	526.9	399.4	321.6	376.0	401.3
52.5°	3766.4	2179.0	354.4	440.7	641.3	676.0	505.4	392.9	312.2	362.9	381.6
55°	3831.1	2054.3	286.9	371.3	584.1	612.3	488.5	391.9	290.7	282.2	279.4
57.5°	3740.1	1805.8	205.3	267.2	448.2	484.7	476.3	385.4	257.8	256.9	260.7
60°	2890.7	1101.7	140.6	169.7	274.7	309.4	432.2	368.5	222.2	204.4	205.3
62.5°	1642.7	468.8	96.6	105.0	140.6	166.9	330.0	334.7	205.3	195.0	205.3
65°	571.9	167.8	75.0	70.3	77.8	89.1	189.4	258.8	186.6	168.8	170.6
67.5°	118.1	83.4	66.6	58.1	58.1	58.1	96.6	161.3	153.8	134.1	136.0
70°	75.0	71.3	58.1	49.7	47.8	44.1	55.3	89.1	106.0	97.5	98.4
72.5°	55.3	54.4	45.9	40.3	35.6	31.9	34.7	44.1	54.4	56.3	57.2
75°	33.8	34.7	30.0	25.3	22.5	19.7	20.6	20.6	20.6	18.8	20.6
77.5°	10.3	11.3	9.4	7.5	6.6	6.6	6.6	5.6	4.7	2.8	2.8
80°	2.8	2.8	2.8	2.8	2.8	1.9	1.9	0.9	0.9	0.0	0.0
82.5°	2.8	2.8	2.8	2.8	1.9	1.9	0.9	0.9	0.0	0.0	0.0
85°	2.8	2.8	2.8	2.8	1.9	1.9	0.9	0.9	0.0	0.0	0.0
87.5°	2.8	2.8	2.8	2.8	1.9	1.9	0.9	0.9	0.0	0.0	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)