

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: P639260

Luminaire Tested: GWS-SA5B-740-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639260
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-740-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13300.2 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

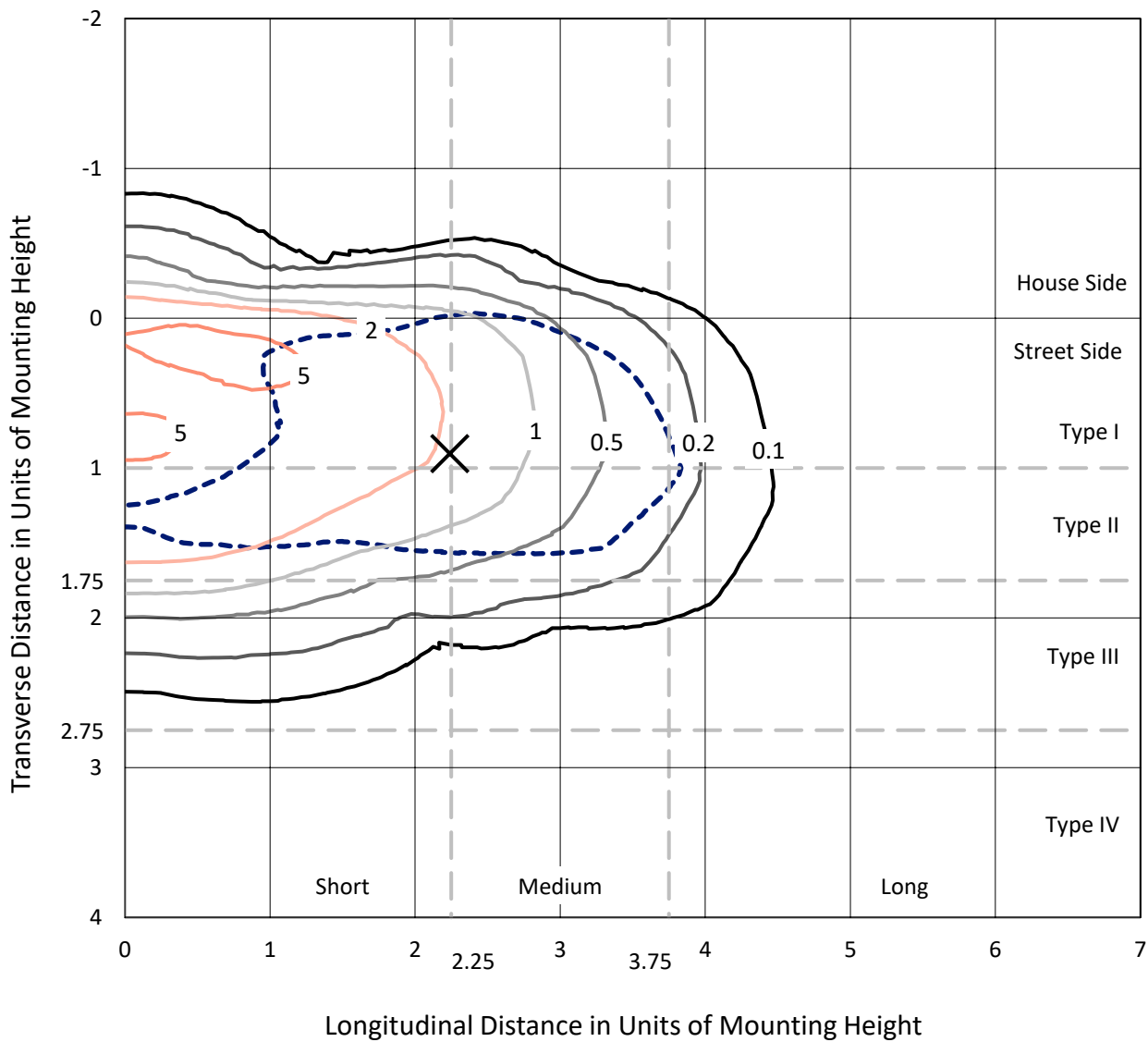
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

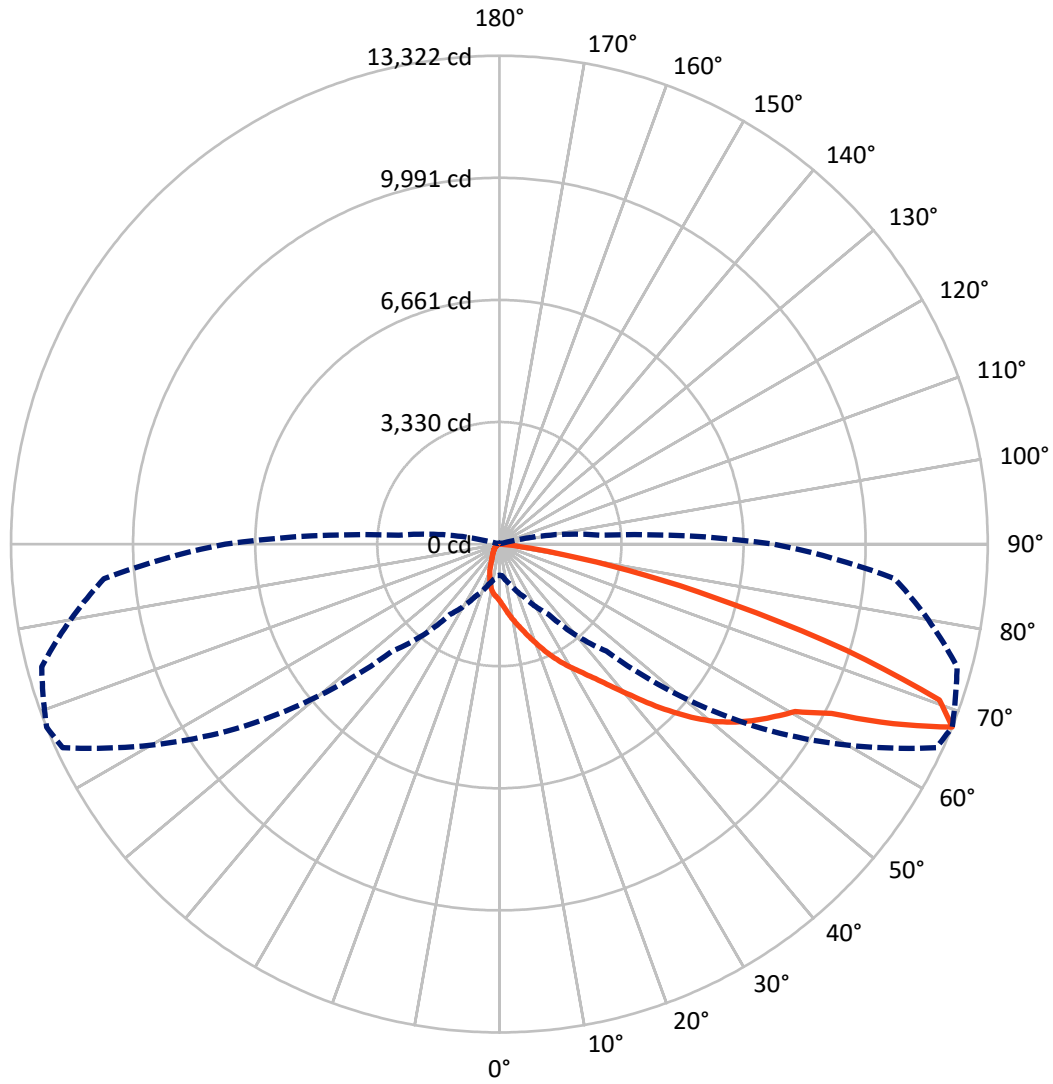
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	960.4	0.0	960.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	12339.8	0.0	12339.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	13300.2	0.0	13300.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.0	1.1
10°-20°	433.5	3.3
20°-30°	745.0	5.6
30°-40°	1295.2	9.7
40°-50°	2260.1	17.0
50°-60°	3408.8	25.6
60°-70°	3418.1	25.7
70°-80°	1508.1	11.3
80°-90°	80.6	0.6
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°	13300.2	100.0
0°-180°	13300.2	100.0

Coefficient of Utilization



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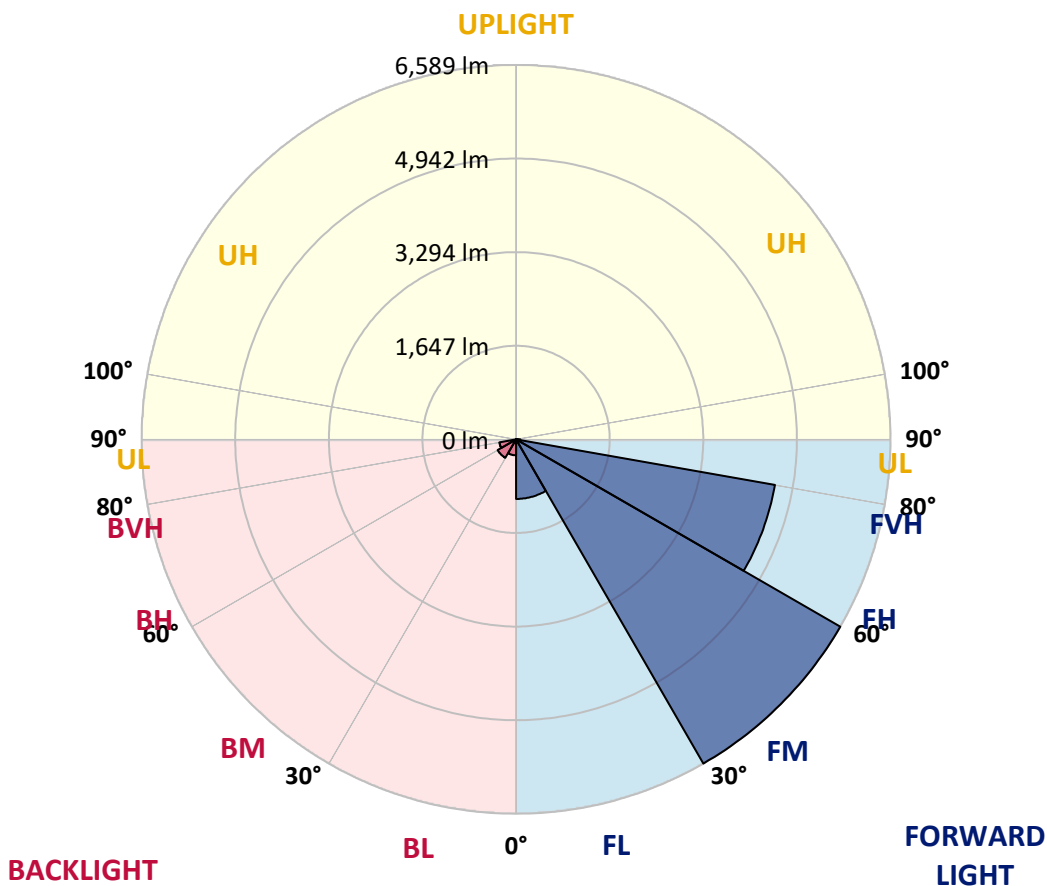
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1048.5	7.9			
FM (30°-60°)	6588.9	49.5			
FH (60°-80°)	4626.4	34.8			G2/5000
FVH (80°-90°)	76.0	0.6			G1/100
BL (0°-30°)	281.0	2.1	B1/500		
BM (30°-60°)	375.2	2.8	B1/1000		
BH (60°-80°)	299.7	2.3	B1/500		G1/500
BVH (80°-90°)	4.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1547.8	1547.8	1547.8	1547.8	1547.8	1547.8	1547.8	1547.8	1547.8	1547.8	1547.8
2.5°	1802.4	1813.8	1802.4	1804.9	1771.8	1756.6	1723.5	1677.6	1666.2	1636.9	1592.4
5°	2022.6	2032.8	2021.3	2018.8	1980.6	1952.6	1897.8	1818.9	1796.0	1738.7	1650.9
7.5°	2142.2	2148.6	2152.4	2158.8	2144.8	2121.9	2072.2	1974.2	1950.0	1857.1	1733.6
10°	2155.0	2160.1	2179.1	2217.3	2245.3	2259.3	2231.3	2141.0	2102.8	2012.4	1835.5
12.5°	2119.3	2127.0	2157.5	2221.2	2298.8	2370.1	2387.9	2309.0	2274.6	2158.8	1955.1
15°	2072.2	2078.6	2120.6	2207.1	2324.3	2455.4	2529.2	2494.8	2456.6	2335.7	2087.5
17.5°	1999.7	2008.6	2067.1	2184.2	2335.7	2522.8	2681.9	2693.4	2666.7	2535.5	2233.9
20°	1958.9	1965.3	2017.5	2138.4	2328.1	2572.5	2824.5	2932.7	2903.4	2765.9	2401.9
22.5°	1993.3	1998.4	2032.8	2127.0	2302.6	2600.5	2956.9	3172.0	3155.4	3012.9	2578.8
25°	2174.1	2190.6	2170.2	2186.8	2314.1	2615.7	3063.8	3411.3	3415.1	3271.3	2762.1
27.5°	2540.6	2519.0	2470.6	2387.9	2403.2	2656.5	3155.4	3636.6	3669.7	3523.3	2925.0
30°	2913.6	2900.9	2871.6	2743.0	2636.1	2746.8	3233.1	3867.0	3919.2	3771.5	3070.2
32.5°	3332.4	3345.1	3292.9	3138.9	2956.9	2930.1	3313.3	4085.9	4183.9	4052.8	3240.7
35°	3832.6	3836.4	3733.3	3562.8	3356.5	3233.1	3457.1	4327.7	4508.5	4411.8	3468.6
37.5°	4320.1	4343.0	4287.0	4018.4	3835.1	3609.8	3695.1	4638.3	4892.9	4854.7	3755.0
40°	4751.6	4787.2	4769.4	4509.8	4269.2	4079.5	4064.3	5002.4	5357.5	5400.8	4133.0
42.5°	5095.3	5118.2	5132.2	4947.6	4735.1	4628.1	4519.9	5425.0	5906.1	6083.0	4596.3
45°	5458.0	5465.7	5495.0	5370.2	5184.4	5193.3	5058.4	5937.9	6484.0	6839.1	5128.4
47.5°	5920.1	5945.6	5931.6	5800.5	5632.4	5733.0	5614.6	6466.2	7054.2	7646.1	5673.2
50°	6482.7	6509.4	6496.7	6344.0	6156.9	6198.9	6125.0	6979.1	7604.1	8407.3	6126.3
52.5°	6772.9	6794.6	6952.4	7021.1	6923.1	6655.8	6560.4	7543.0	8068.7	9033.5	6542.5
55°	6632.9	6648.2	6991.9	7282.1	7641.0	7373.7	6998.2	7978.3	8478.6	9522.3	6851.8
57.5°	6052.5	6135.2	6602.4	7093.7	7848.5	8082.7	7708.5	8451.8	8873.1	9862.2	7156.1
60°	4862.3	4858.5	5528.1	6410.2	7443.7	8277.4	8711.5	9092.1	9269.0	10123.1	7563.4
62.5°	2687.0	2711.2	3602.2	4764.3	6318.5	7773.4	9463.8	10198.2	10171.5	10578.8	8201.1
65°	1337.8	1386.2	1869.8	2729.0	4204.3	6424.2	9593.6	11886.0	11809.7	11651.8	9518.5
67.5°	849.0	868.1	1135.4	1586.0	2337.0	4129.2	8785.3	13144.9	13321.8	12924.7	10825.7
70°	549.9	581.7	789.2	1084.5	1410.3	2128.2	6435.6	12329.0	12735.0	12784.7	10011.1
72.5°	299.1	322.0	504.1	773.9	1018.3	1064.1	3614.9	9252.5	9905.4	10844.8	7831.9
75°	170.6	187.1	276.2	525.7	747.2	647.9	1602.5	6193.8	6610.0	7750.5	5612.1
77.5°	103.1	117.1	155.3	255.8	468.4	432.8	605.9	3770.2	4035.0	4624.3	2945.4
80°	47.1	56.0	98.0	141.3	255.8	204.9	231.7	1757.8	1815.1	1897.8	975.0
82.5°	21.6	25.5	44.6	84.0	145.1	118.4	89.1	406.0	571.5	541.0	248.2
85°	2.5	2.5	16.5	34.4	40.7	30.5	36.9	91.6	115.8	162.9	71.3
87.5°	0.0	0.0	1.3	1.3	2.5	3.8	7.6	11.5	16.5	26.7	17.8
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°	1547.8	1547.8	1547.8	1547.8	1547.8	1547.8	1547.8	1547.8	1547.8	1547.8	1547.8
2.5°	1572.0	1536.3	1504.5	1457.4	1425.6	1390.0	1365.8	1336.5	1325.1	1316.1	1303.4
5°	1607.6	1550.4	1472.7	1386.2	1314.9	1247.4	1185.0	1144.3	1108.7	1103.6	1085.8
7.5°	1666.2	1580.9	1449.8	1308.5	1187.6	1075.6	987.7	916.5	880.8	869.4	849.0
10°	1743.8	1626.7	1415.4	1199.0	1024.7	891.0	791.7	711.5	655.5	635.2	619.9
12.5°	1830.4	1668.7	1360.7	1064.1	865.5	712.8	586.8	501.5	465.9	453.1	441.7
15°	1929.7	1708.2	1274.1	929.2	710.3	524.4	435.3	398.4	383.1	379.3	375.5
17.5°	2025.1	1733.6	1171.0	789.2	546.1	407.3	365.3	351.3	347.5	343.7	341.1
20°	2133.3	1751.5	1050.1	656.8	423.9	344.9	324.6	314.4	306.8	299.1	297.9
22.5°	2244.1	1751.5	919.0	527.0	355.1	309.3	286.4	267.3	253.3	245.7	243.1
25°	2349.7	1727.3	789.2	421.3	313.1	274.9	245.7	224.0	204.9	196.0	193.5
27.5°	2424.8	1664.9	675.9	356.4	283.8	244.4	208.8	184.6	169.3	160.4	159.1
30°	2471.9	1572.0	571.5	318.2	258.4	212.6	176.9	156.6	145.1	138.7	136.2
32.5°	2507.5	1457.4	478.6	291.5	234.2	184.6	154.0	137.5	127.3	122.2	120.9
35°	2578.8	1349.2	409.9	267.3	208.8	161.7	134.9	122.2	114.6	108.2	106.9
37.5°	2678.1	1258.9	355.1	245.7	184.6	143.8	122.2	110.7	104.4	98.0	96.7
40°	2824.5	1201.6	314.4	224.0	162.9	129.8	112.0	101.8	92.9	86.6	85.3
42.5°	3049.8	1174.9	287.7	202.4	143.8	117.1	103.1	90.4	81.5	75.1	73.8
45°	3318.4	1188.9	264.8	180.7	131.1	108.2	91.6	78.9	70.0	63.6	62.4
47.5°	3606.0	1238.5	245.7	160.4	118.4	99.3	81.5	67.5	59.8	53.5	52.2
50°	3906.4	1320.0	229.1	141.3	108.2	89.1	70.0	58.6	50.9	45.8	44.6
52.5°	4167.4	1430.7	212.6	127.3	99.3	78.9	61.1	50.9	43.3	38.2	36.9
55°	4416.8	1535.1	199.8	114.6	89.1	68.7	53.5	43.3	36.9	31.8	30.5
57.5°	4688.0	1645.8	184.6	103.1	80.2	61.1	47.1	36.9	31.8	26.7	25.5
60°	5082.6	1810.0	161.7	94.2	70.0	53.5	40.7	33.1	28.0	21.6	20.4
62.5°	5651.5	2109.1	136.2	81.5	59.8	45.8	34.4	28.0	22.9	17.8	15.3
65°	6715.6	2618.3	112.0	67.5	48.4	38.2	29.3	22.9	17.8	12.7	11.5
67.5°	7481.9	2750.7	90.4	54.7	39.5	29.3	24.2	17.8	12.7	8.9	7.6
70°	6541.3	1975.5	70.0	44.6	33.1	22.9	19.1	14.0	8.9	6.4	5.1
72.5°	4928.5	1290.7	52.2	34.4	25.5	19.1	14.0	11.5	7.6	5.1	3.8
75°	3473.7	745.9	38.2	25.5	17.8	14.0	11.5	8.9	6.4	3.8	3.8
77.5°	1780.7	308.0	26.7	17.8	12.7	8.9	7.6	5.1	5.1	3.8	2.5
80°	541.0	101.8	15.3	11.5	8.9	6.4	3.8	3.8	3.8	2.5	1.3
82.5°	123.5	33.1	8.9	8.9	6.4	5.1	3.8	1.3	1.3	0.0	0.0
85°	31.8	10.2	7.6	6.4	6.4	5.1	2.5	1.3	0.0	0.0	0.0
87.5°	11.5	6.4	6.4	6.4	5.1	3.8	2.5	0.0	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)