

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: P636408

Luminaire Tested: GWS-SA3F-760-U-T3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636408  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3F-760-U-T3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (48) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

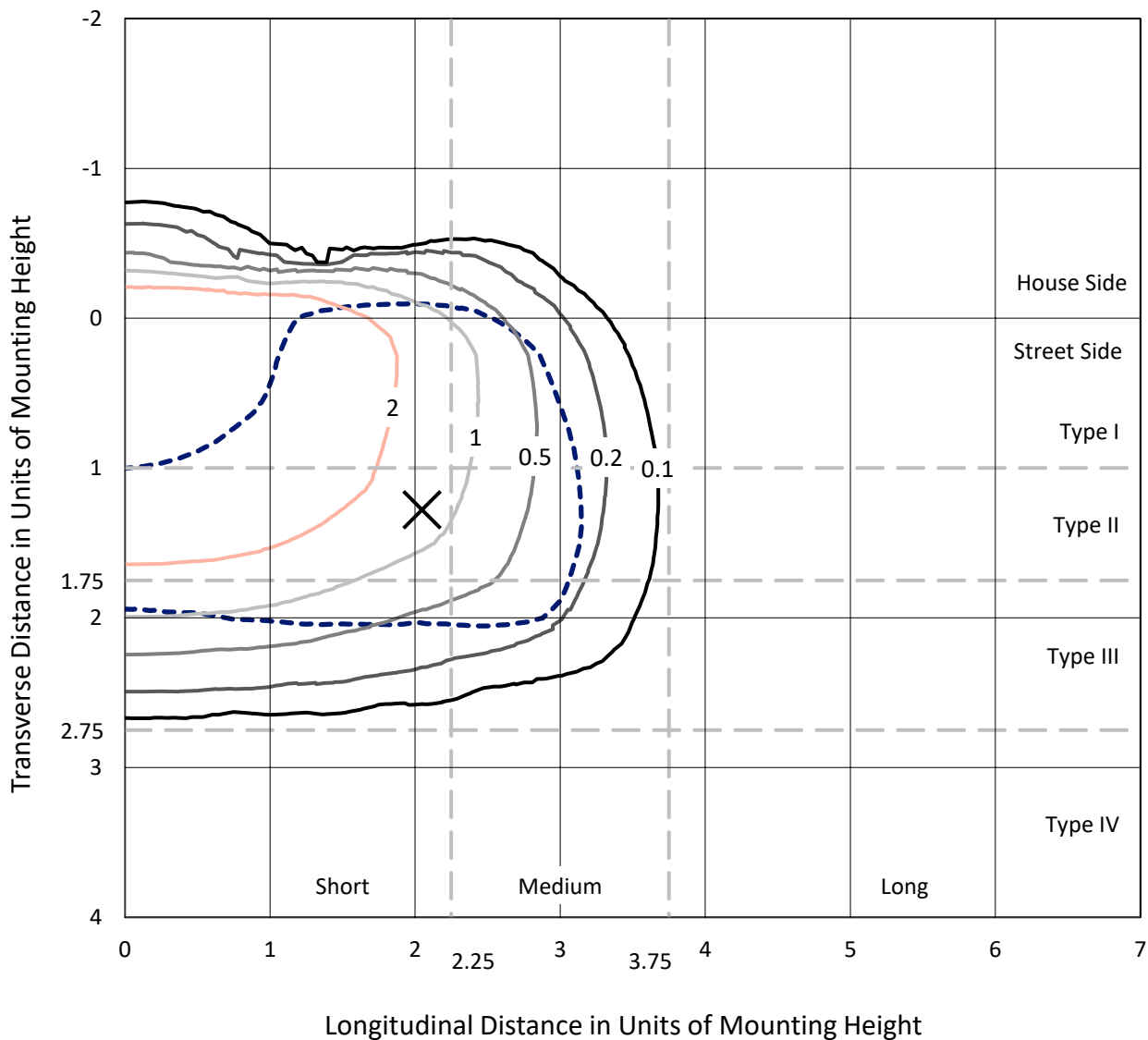
Lumens per Lamp: N/A  
Luminaire Lumens: 18110.1 lumens  
Efficiency: N/A  
Efficacy: 98.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

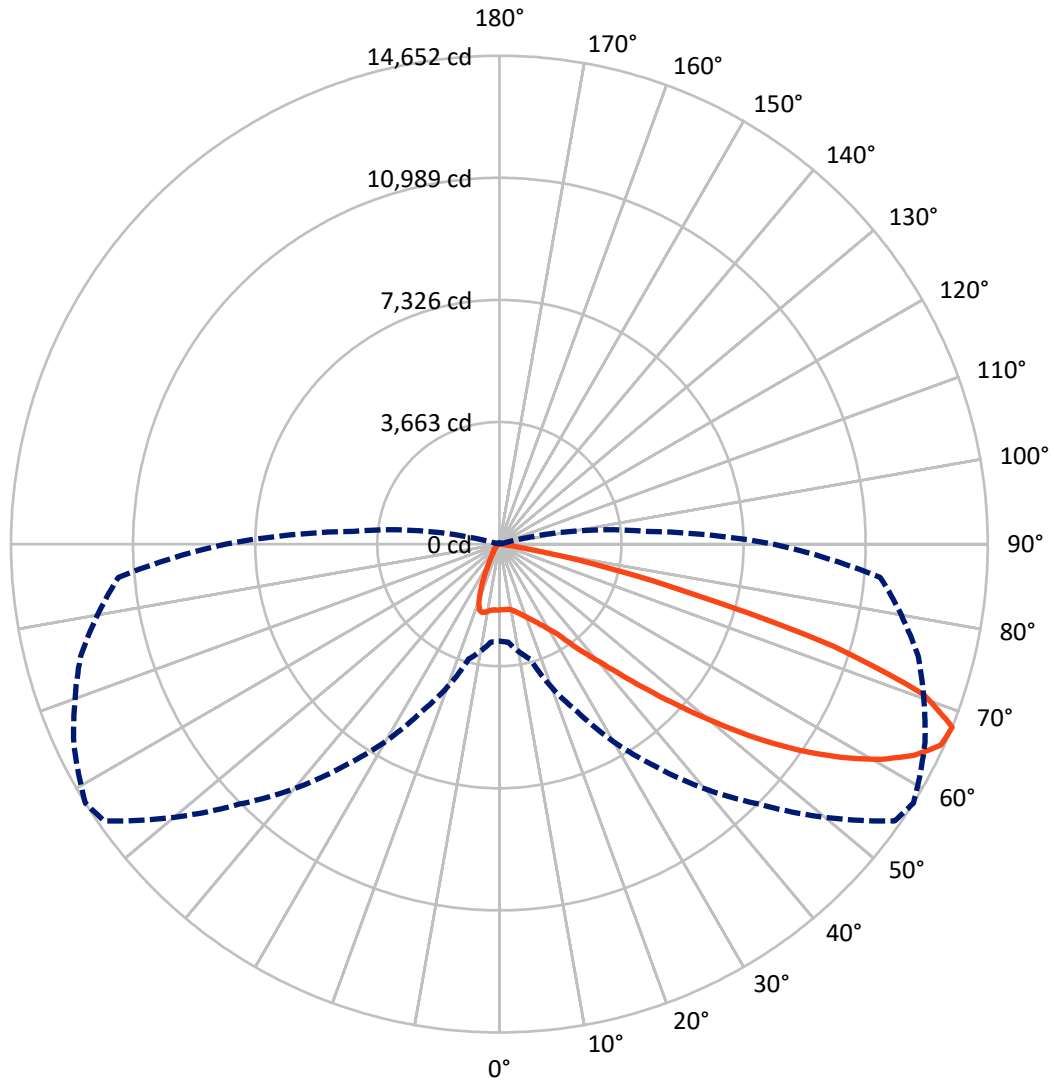
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1975.8	0.0	1975.8
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	16134.3	0.0	16134.3
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	18110.1	0.0	18110.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.4	1.0
10°-20°	520.5	2.9
20°-30°	908.5	5.0
30°-40°	1622.6	9.0
40°-50°	2965.7	16.4
50°-60°	4932.3	27.2
60°-70°	5357.3	29.6
70°-80°	1573.0	8.7
80°-90°	44.8	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°	18110.1	100.0
0°-180°	18110.1	100.0

**Coefficient of Utilization**



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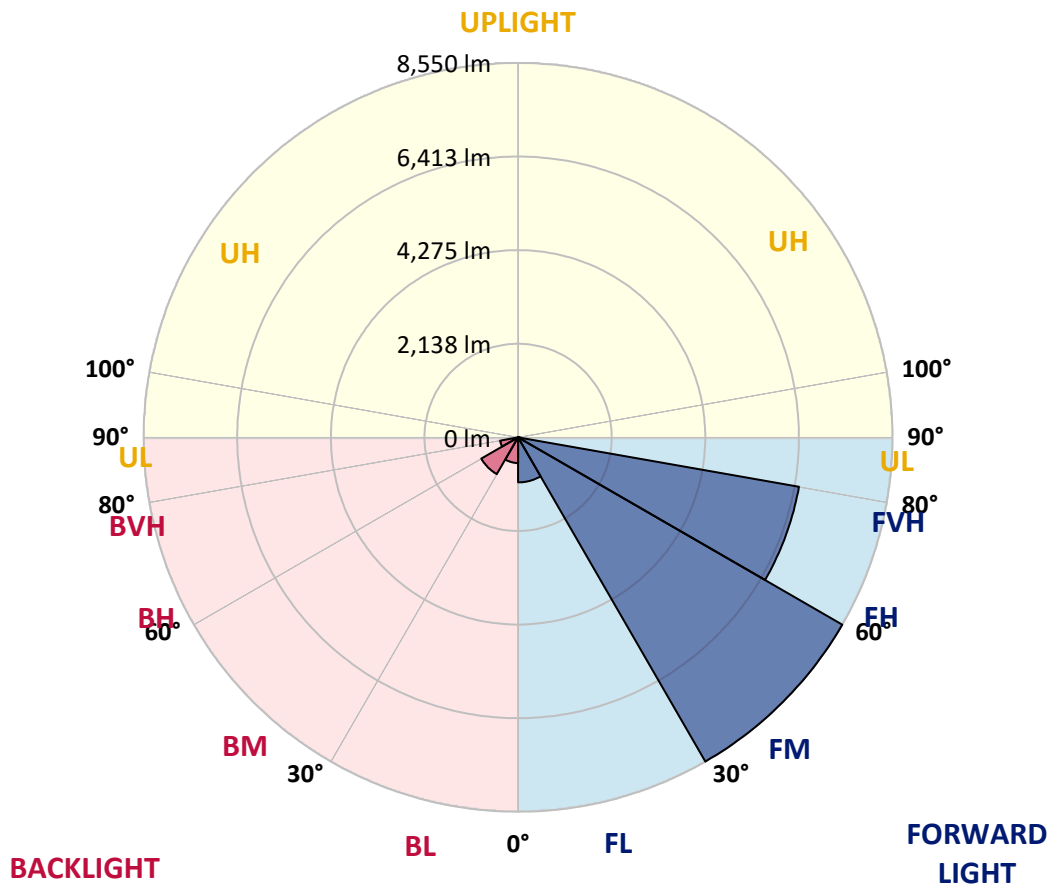
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1028.4	5.7			
FM (30°-60°)	8550.1	47.2			
FH (60°-80°)	6513.2	36.0			G3/7500
FVH (80°-90°)	42.6	0.2			G1/100
BL (0°-30°)	586.1	3.2	B2/1000		
BM (30°-60°)	970.4	5.4	B1/1000		
BH (60°-80°)	417.1	2.3	B1/500		G1/500
BVH (80°-90°)	2.2	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1973.5	1973.5	1973.5	1973.5	1973.5	1973.5	1973.5	1973.5	1973.5	1973.5	1973.5
2.5°	1936.3	1932.8	1932.8	1946.9	1948.7	1955.8	1971.7	1973.5	1982.3	1978.8	1966.4
5°	1835.5	1837.3	1847.9	1872.7	1893.9	1920.4	1959.3	1968.2	1987.6	1998.2	1991.1
7.5°	1741.8	1743.6	1759.5	1798.4	1839.1	1892.1	1955.8	1973.5	2012.4	2040.7	2042.4
10°	1706.4	1704.7	1720.6	1764.8	1817.8	1892.1	1984.1	2007.1	2065.4	2114.9	2123.8
12.5°	1717.1	1715.3	1731.2	1771.9	1830.2	1923.9	2033.6	2065.4	2139.7	2215.7	2231.6
15°	1759.5	1757.7	1768.3	1801.9	1865.6	1962.8	2097.2	2145.0	2238.7	2330.7	2355.4
17.5°	1886.8	1878.0	1867.4	1870.9	1908.0	2008.8	2178.6	2236.9	2353.7	2463.3	2484.5
20°	2113.2	2090.2	2061.9	2024.7	2007.1	2076.0	2272.3	2339.5	2481.0	2606.5	2610.1
22.5°	2454.4	2445.6	2380.2	2272.3	2196.3	2198.0	2381.9	2459.8	2633.0	2771.0	2751.5
25°	2930.1	2924.8	2824.0	2647.2	2449.1	2381.9	2521.6	2601.2	2813.4	2960.2	2898.3
27.5°	3520.8	3483.6	3365.1	3126.4	2831.1	2620.7	2698.5	2769.2	3004.4	3142.3	3025.6
30°	4035.3	4037.1	3925.7	3676.4	3343.9	2979.6	2914.2	2976.1	3179.5	3324.5	3183.0
32.5°	4530.5	4546.4	4424.4	4199.8	3835.5	3448.2	3223.7	3234.3	3404.0	3561.4	3389.9
35°	4990.2	5002.6	4917.7	4726.8	4387.2	3938.1	3655.1	3649.8	3741.8	3902.7	3678.1
37.5°	5504.8	5517.2	5434.1	5262.6	4944.3	4498.6	4145.0	4137.9	4175.0	4305.9	4049.5
40°	6053.0	6076.0	5984.0	5839.0	5534.9	5158.2	4714.4	4650.7	4613.6	4767.4	4530.5
42.5°	6608.3	6643.6	6611.8	6466.8	6206.8	5895.6	5453.5	5354.5	5274.9	5467.7	5216.6
45°	7297.9	7340.4	7326.2	7214.8	7013.2	6760.3	6343.0	6228.1	6190.9	6369.5	6070.7
47.5°	7961.0	8007.0	8058.3	8033.5	7890.3	7773.6	7310.3	7244.9	7234.3	7425.2	6961.9
50°	8454.4	8496.8	8693.1	8834.6	8931.9	8907.1	8505.7	8408.4	8392.5	8514.5	7902.7
52.5°	8808.1	8848.7	9119.3	9561.4	9918.6	10113.1	9708.1	9686.9	9600.3	9557.8	8783.3
55°	9082.2	9138.7	9423.4	10091.9	10811.6	11243.1	10990.2	10914.2	10691.3	10447.3	9600.3
57.5°	9137.0	9160.0	9561.4	10463.2	11504.8	12203.3	12203.3	12070.6	11640.9	11303.2	10544.6
60°	8645.4	8716.1	9259.0	10433.2	11801.9	12831.0	13209.4	13117.5	12537.5	12121.9	11453.5
62.5°	7554.3	7633.9	8295.3	9713.5	11504.8	12960.1	13971.6	13957.5	13303.2	12799.2	12206.8
65°	5793.1	5851.4	6427.9	8125.5	10249.3	12463.2	14516.2	14555.2	13907.9	13246.6	12466.7
67.5°	2910.7	2951.3	3573.8	5550.8	8123.7	11032.6	14479.1	14652.4	14091.8	13009.6	11474.7
70°	1016.8	1057.5	1351.0	2381.9	4944.3	8424.3	13227.1	13510.1	13011.4	11105.1	8465.0
72.5°	348.4	367.8	560.6	884.2	1923.9	4993.8	10058.3	10484.4	9591.4	7455.3	4864.7
75°	198.1	210.4	300.6	479.2	806.4	1642.8	5706.4	5968.1	5591.5	4063.6	2001.8
77.5°	134.4	145.0	187.4	272.3	445.6	528.7	2327.1	2930.1	2555.2	1326.2	511.0
80°	79.6	86.6	114.9	160.9	228.1	205.1	498.7	663.1	854.1	396.1	153.8
82.5°	37.1	42.4	74.3	106.1	114.9	86.6	146.8	178.6	240.5	194.5	63.7
85°	0.0	0.0	24.8	44.2	42.4	24.8	40.7	44.2	65.4	97.3	24.8
87.5°	0.0	0.0	0.0	0.0	0.0	1.8	3.5	5.3	10.6	19.5	10.6
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°	1973.5	1973.5	1973.5	1973.5	1973.5	1973.5	1973.5	1973.5	1973.5	1973.5	1973.5
2.5°	1980.5	1968.2	1982.3	1975.2	1982.3	1980.5	1966.4	1957.5	1957.5	1941.6	1936.3
5°	2005.3	1992.9	1996.4	1980.5	1977.0	1968.2	1950.5	1943.4	1943.4	1927.5	1922.2
7.5°	2060.1	2040.7	2037.1	2005.3	1991.1	1966.4	1934.6	1922.2	1920.4	1904.5	1899.2
10°	2146.8	2123.8	2107.9	2067.2	2026.5	1977.0	1909.8	1853.2	1821.4	1778.9	1775.4
12.5°	2252.9	2224.6	2199.8	2137.9	2070.7	1959.3	1761.3	1554.4	1427.0	1326.2	1333.3
15°	2371.3	2344.8	2305.9	2212.2	2074.3	1784.2	1370.5	1052.2	896.5	813.4	809.9
17.5°	2500.4	2461.5	2397.9	2270.5	1962.8	1363.4	891.2	629.5	548.2	519.9	512.8
20°	2620.7	2572.9	2493.3	2282.9	1641.0	923.1	557.0	488.1	473.9	465.1	465.1
22.5°	2748.0	2687.9	2569.4	2187.4	1220.1	590.6	473.9	458.0	447.4	435.0	433.2
25°	2877.1	2799.3	2638.4	1938.1	799.3	465.1	443.9	426.2	406.7	387.3	382.0
27.5°	2986.7	2885.9	2691.4	1566.7	512.8	419.1	404.9	374.9	348.4	327.1	323.6
30°	3117.6	2988.5	2714.4	1145.9	403.2	369.6	348.4	316.5	284.7	263.5	256.4
32.5°	3292.6	3151.2	2679.0	746.2	357.2	325.4	291.8	254.6	222.8	199.8	196.3
35°	3565.0	3397.0	2516.3	475.7	323.6	281.2	240.5	201.6	175.1	157.4	153.8
37.5°	3897.4	3741.8	2249.3	357.2	290.0	244.0	196.3	159.1	139.7	127.3	123.8
40°	4390.8	4173.3	1918.6	313.0	256.4	206.9	160.9	130.9	116.7	106.1	102.6
42.5°	5030.9	4682.5	1538.4	284.7	224.6	173.3	130.9	107.9	95.5	88.4	86.6
45°	5778.9	5179.4	1137.0	256.4	194.5	143.2	107.9	88.4	79.6	74.3	72.5
47.5°	6544.6	5614.5	785.1	226.3	166.2	118.5	90.2	76.0	69.0	61.9	60.1
50°	7361.6	5982.3	535.8	196.3	141.5	97.3	77.8	69.0	60.1	54.8	53.0
52.5°	7961.0	6118.4	373.1	169.8	120.2	83.1	69.0	61.9	54.8	47.7	46.0
55°	8514.5	6114.9	282.9	143.2	102.6	72.5	61.9	54.8	47.7	42.4	40.7
57.5°	9066.2	6067.2	222.8	122.0	88.4	65.4	54.8	47.7	44.2	37.1	35.4
60°	9423.4	5886.8	173.3	102.6	76.0	56.6	47.7	42.4	37.1	31.8	30.1
62.5°	9612.7	5635.7	132.6	81.3	61.9	49.5	42.4	37.1	31.8	26.5	24.8
65°	9356.3	5190.1	104.3	63.7	47.7	42.4	35.4	30.1	24.8	19.5	17.7
67.5°	8219.2	4376.6	81.3	51.3	37.1	31.8	30.1	24.8	17.7	14.1	12.4
70°	5809.0	2997.3	63.7	38.9	28.3	24.8	23.0	19.5	14.1	10.6	8.8
72.5°	3188.3	1511.9	46.0	28.3	21.2	19.5	17.7	15.9	12.4	8.8	8.8
75°	1227.2	415.6	33.6	19.5	14.1	14.1	12.4	12.4	10.6	7.1	7.1
77.5°	320.1	123.8	21.2	12.4	8.8	8.8	8.8	7.1	7.1	5.3	5.3
80°	102.6	40.7	12.4	8.8	7.1	5.3	5.3	3.5	5.3	3.5	3.5
82.5°	33.6	14.1	7.1	7.1	5.3	3.5	3.5	1.8	1.8	0.0	0.0
85°	12.4	7.1	5.3	3.5	3.5	3.5	1.8	0.0	0.0	0.0	0.0
87.5°	7.1	3.5	3.5	3.5	3.5	1.8	0.0	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)