

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: P632916

Luminaire Tested: GWS-SA2D-760-U-SL2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632916  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2D-760-U-SL2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

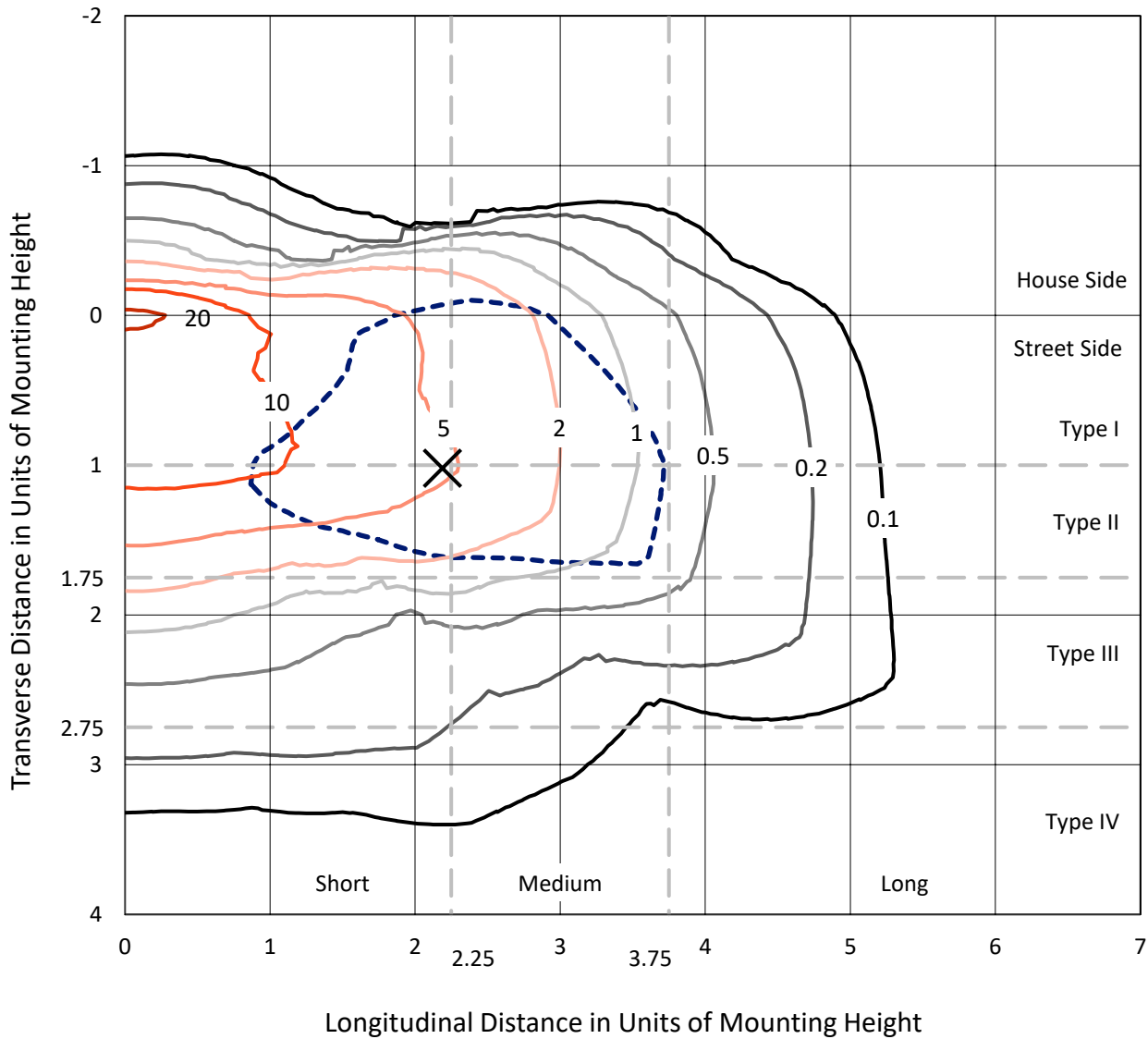
Lumens per Lamp: N/A  
Luminaire Lumens: 9338.2 lumens  
Efficiency: N/A  
Efficacy: 113.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

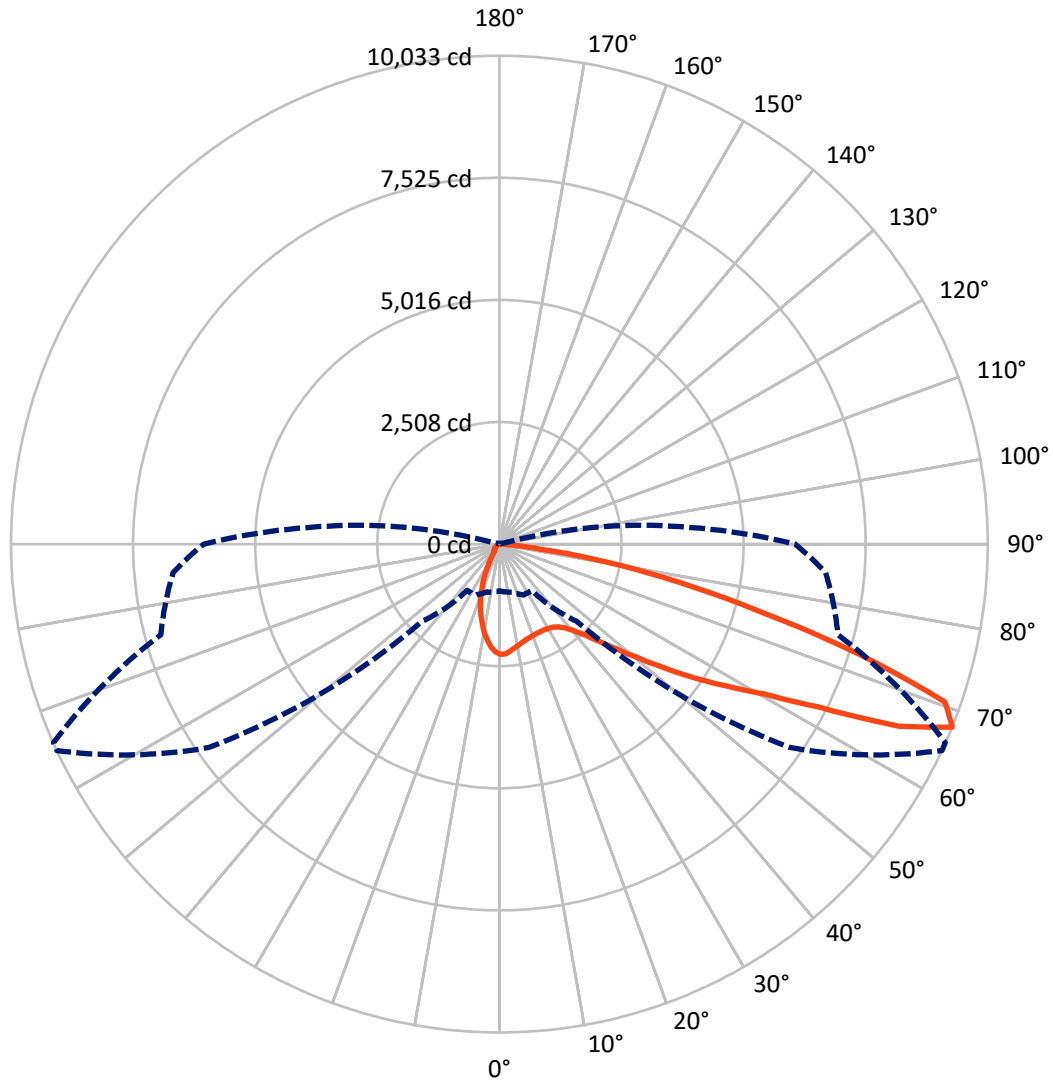
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1166.1	0.0	1166.1
	% Fixture	12.5	0.0	12.5
<b>Street Side</b>	Lumens	8172.1	0.0	8172.1
	% Fixture	87.5	0.0	87.5
<b>Total</b>	Lumens	9338.2	0.0	9338.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.1	2.0
10°-20°	422.8	4.5
20°-30°	604.2	6.5
30°-40°	879.1	9.4
40°-50°	1376.8	14.7
50°-60°	2147.8	23.0
60°-70°	2359.3	25.3
70°-80°	1255.6	13.4
80°-90°	104.5	1.1
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°	9338.2	100.0
0°-180°	9338.2	100.0

**Coefficient of Utilization**



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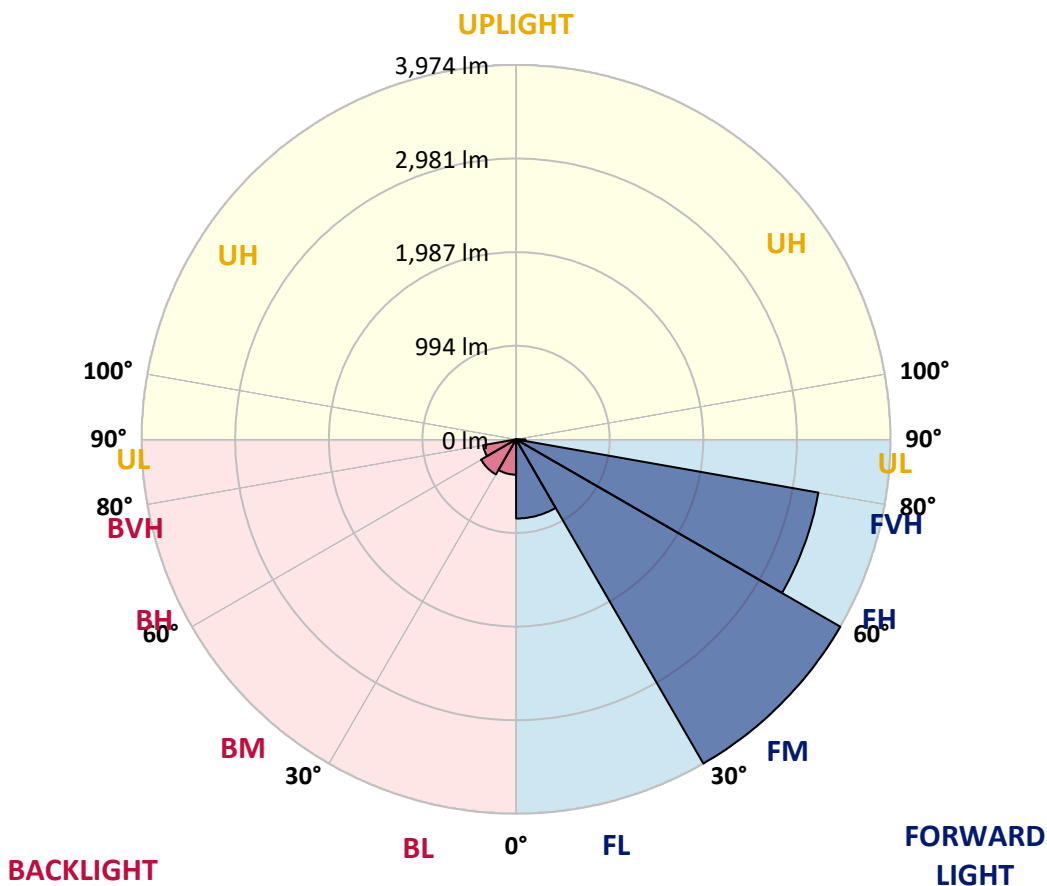
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	840.4	9.0			
FM (30°-60°)	3974.1	42.6			
FH (60°-80°)	3258.7	34.9			G2/5000
FVH (80°-90°)	98.9	1.1			G1/100
BL (0°-30°)	374.8	4.0	B1/500		
BM (30°-60°)	429.5	4.6	B1/1000		
BH (60°-80°)	356.2	3.8	B1/500		G1/500
BVH (80°-90°)	5.6	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8
2.5°	2186.3	2193.0	2183.7	2206.5	2210.8	2236.1	2250.5	2260.6	2259.7	2272.4	2272.4
5°	2057.9	2064.7	2059.6	2084.1	2103.5	2143.2	2176.1	2214.1	2215.8	2254.7	2269.0
7.5°	1949.0	1949.8	1949.8	1980.2	2005.6	2054.5	2103.5	2161.8	2168.5	2228.5	2266.5
10°	1859.5	1862.0	1862.9	1897.5	1925.3	1984.5	2046.9	2117.0	2124.6	2205.7	2264.8
12.5°	1797.8	1798.7	1802.1	1838.4	1868.8	1930.4	1993.7	2074.0	2084.1	2179.5	2257.2
15°	1768.3	1766.6	1768.3	1798.7	1829.1	1888.2	1953.2	2039.3	2050.3	2157.6	2258.1
17.5°	1766.6	1764.1	1762.4	1785.2	1804.6	1856.9	1922.8	2016.5	2028.4	2147.4	2267.3
20°	1791.1	1789.4	1780.9	1791.1	1795.3	1838.4	1903.4	1998.8	2010.6	2145.7	2287.6
22.5°	1855.3	1851.0	1838.4	1829.1	1806.3	1831.6	1889.9	1986.1	1999.7	2150.0	2313.8
25°	1950.7	1949.0	1932.9	1910.1	1851.9	1841.7	1890.7	1986.1	1998.8	2155.0	2341.7
27.5°	2094.2	2084.1	2063.8	2024.1	1940.5	1881.4	1907.6	1991.2	2003.9	2161.8	2364.5
30°	2240.3	2239.5	2232.7	2192.2	2068.1	1957.4	1943.1	2004.7	2016.5	2167.7	2385.6
32.5°	2391.5	2394.0	2410.9	2379.7	2243.7	2070.6	2007.3	2032.6	2041.0	2179.5	2404.1
35°	2535.0	2540.1	2584.9	2595.8	2457.3	2242.0	2112.0	2088.3	2089.2	2205.7	2428.6
37.5°	2672.7	2689.6	2761.3	2814.5	2723.3	2449.7	2263.1	2182.9	2176.1	2258.1	2465.8
40°	2828.9	2861.0	2951.3	3041.7	3013.0	2724.2	2469.2	2328.1	2313.8	2354.3	2532.5
42.5°	3002.0	3036.6	3156.5	3283.2	3296.7	3056.1	2726.7	2540.1	2515.6	2516.5	2657.5
45°	3187.8	3234.2	3373.6	3556.0	3637.9	3425.9	3044.2	2826.4	2801.9	2765.6	2858.5
47.5°	3431.8	3472.4	3606.6	3816.9	3974.0	3822.8	3460.5	3194.5	3149.8	3096.6	3170.9
50°	3642.1	3677.6	3793.3	4056.7	4383.5	4334.5	3932.6	3654.8	3611.7	3521.3	3583.0
52.5°	3688.5	3716.4	3822.8	4119.2	4696.8	4980.6	4511.0	4211.3	4180.9	4013.7	4037.3
55°	3480.0	3522.2	3617.6	3946.9	4778.7	5612.2	5261.8	4838.7	4775.3	4508.5	4550.7
57.5°	2953.0	3028.2	3117.7	3545.8	4556.6	5948.3	6310.6	5503.3	5445.8	4984.8	4985.6
60°	2164.3	2225.1	2285.1	2676.9	4029.7	5925.5	7262.2	6249.8	6145.0	5374.1	5359.7
62.5°	1574.0	1605.3	1604.4	1743.8	2767.3	5535.4	7762.2	7374.6	7130.5	5790.4	5708.5
65°	1238.0	1237.1	1273.4	1319.0	1545.3	4272.9	7823.8	9017.0	8753.5	6348.6	6178.0
67.5°	963.5	982.1	1018.4	1152.7	1161.1	2236.1	7281.7	10032.9	10027.8	7200.6	6727.7
70°	743.1	768.4	820.0	1015.9	1072.4	1251.5	5448.4	9711.1	9793.1	7581.4	6338.4
72.5°	477.1	475.4	551.4	820.8	1030.2	1042.9	3013.0	7714.0	7806.9	6867.0	5125.0
75°	266.8	268.5	311.6	502.4	960.1	981.2	1492.1	5500.7	5574.2	5353.8	3937.7
77.5°	104.7	108.1	146.1	264.3	633.3	876.5	886.7	3751.0	3762.0	3317.8	2415.1
80°	42.2	44.8	74.3	163.8	385.9	590.3	633.3	2209.9	2165.2	1284.4	702.6
82.5°	12.7	13.5	29.6	92.9	201.8	419.7	427.3	847.8	800.5	276.1	179.0
85°	0.8	0.8	6.8	28.7	71.8	105.6	284.6	276.1	244.9	69.2	79.4
87.5°	0.0	0.0	0.8	0.8	1.7	3.4	30.4	50.7	51.5	12.7	35.5
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°	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8
2.5°	2272.4	2242.0	2239.5	2215.8	2192.2	2162.6	2128.0	2102.7	2084.9	2053.7	2047.8
5°	2269.0	2228.5	2190.5	2122.9	2047.8	1966.7	1895.8	1829.9	1788.5	1760.7	1748.9
7.5°	2262.3	2210.8	2122.9	1995.4	1869.6	1727.7	1617.1	1515.8	1446.5	1406.0	1388.3
10°	2257.2	2188.0	2045.3	1851.9	1656.8	1460.9	1292.8	1142.5	1058.9	993.1	982.1
12.5°	2247.1	2155.0	1945.6	1683.8	1432.2	1172.1	957.6	773.5	646.0	588.6	568.3
15°	2236.9	2120.4	1846.0	1506.5	1187.3	866.4	606.3	429.0	341.2	314.1	312.4
17.5°	2235.3	2089.2	1737.9	1338.4	930.6	567.5	345.4	277.8	259.2	252.5	252.5
20°	2240.3	2063.0	1631.5	1145.1	678.1	345.4	257.6	240.7	229.7	223.8	223.8
22.5°	2245.4	2036.0	1529.3	950.0	450.1	252.5	227.2	212.8	200.1	193.4	190.0
25°	2248.8	2006.4	1416.1	754.1	293.9	219.6	199.3	180.7	165.5	157.1	157.1
27.5°	2247.9	1970.9	1302.1	562.4	228.0	195.1	170.6	151.2	136.0	126.7	127.5
30°	2241.2	1932.1	1183.9	392.7	199.3	170.6	146.1	125.8	110.6	103.0	102.2
32.5°	2236.1	1890.7	1047.1	276.1	179.0	149.5	124.1	104.7	92.0	86.1	85.3
35°	2230.2	1850.2	917.1	210.3	161.3	129.2	104.7	88.7	78.5	73.5	73.5
37.5°	2231.9	1808.0	776.0	180.7	143.6	112.3	89.5	76.0	67.6	62.5	61.6
40°	2258.1	1782.6	637.6	163.8	127.5	97.1	77.7	65.9	57.4	52.4	51.5
42.5°	2323.1	1783.5	505.0	151.2	113.2	82.8	67.6	56.6	49.0	43.1	42.2
45°	2453.1	1818.9	387.6	137.6	98.0	71.8	58.3	48.1	40.5	35.5	34.6
47.5°	2665.9	1924.5	293.9	125.8	85.3	62.5	49.8	40.5	33.8	29.6	28.7
50°	3004.5	2115.3	231.4	111.5	71.8	54.0	42.2	33.8	27.9	23.6	22.8
52.5°	3411.6	2401.6	198.4	98.8	61.6	47.3	36.3	27.9	22.8	19.4	18.6
55°	3879.4	2743.6	183.2	86.1	52.4	40.5	29.6	22.8	18.6	16.0	14.4
57.5°	4308.4	3051.8	182.4	73.5	44.8	34.6	24.5	19.4	16.0	12.7	11.8
60°	4726.4	3309.4	171.4	60.8	38.8	28.7	21.1	16.0	13.5	11.0	10.1
62.5°	5105.5	3518.8	143.6	49.0	32.9	23.6	17.7	14.4	11.8	9.3	9.3
65°	5581.8	3785.7	109.8	39.7	27.0	19.4	15.2	12.7	11.0	8.4	8.4
67.5°	6074.1	3926.7	78.5	32.9	22.0	16.9	13.5	11.8	9.3	7.6	7.6
70°	5501.6	3317.8	56.6	27.0	18.6	14.4	11.8	11.0	9.3	7.6	6.8
72.5°	4296.5	2392.3	42.2	21.1	16.0	13.5	11.0	10.1	8.4	6.8	6.8
75°	3186.1	1395.0	32.1	16.9	12.7	11.0	11.0	10.1	8.4	6.8	5.9
77.5°	1732.0	486.4	24.5	13.5	10.1	8.4	9.3	9.3	7.6	5.9	5.1
80°	458.5	133.4	16.9	10.1	8.4	6.8	6.8	8.4	6.8	5.1	5.1
82.5°	133.4	38.8	11.8	8.4	6.8	5.9	5.9	5.9	5.1	4.2	3.4
85°	65.0	14.4	8.4	6.8	5.9	5.1	4.2	4.2	3.4	2.5	2.5
87.5°	28.7	5.9	6.8	5.9	5.9	4.2	3.4	2.5	2.5	1.7	0.8
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)