

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: P639865

Luminaire Tested: GWS-SA5C-760-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639865  
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-SA5C-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

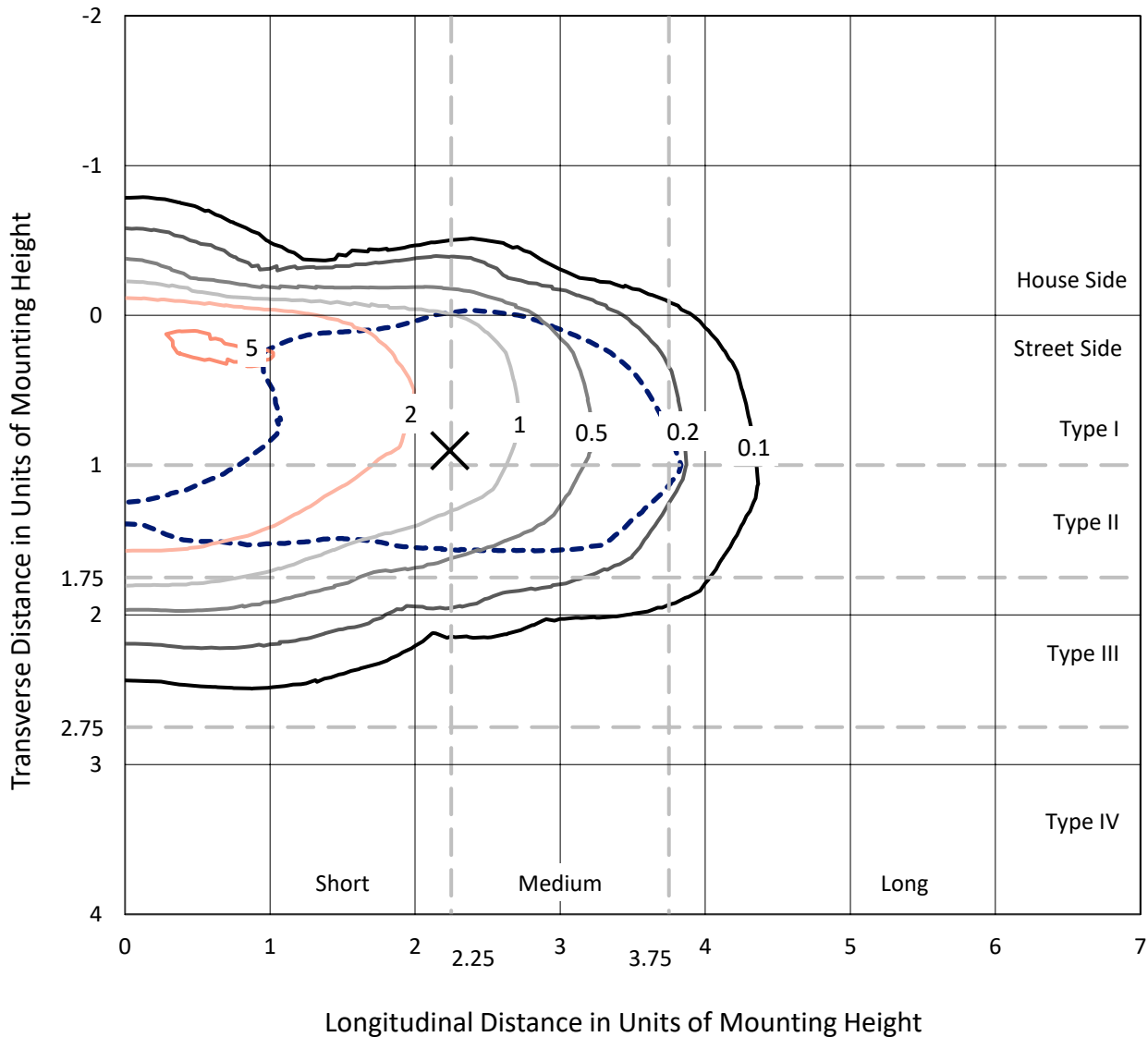
Lumens per Lamp: N/A  
Luminaire Lumens: 17995.6 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

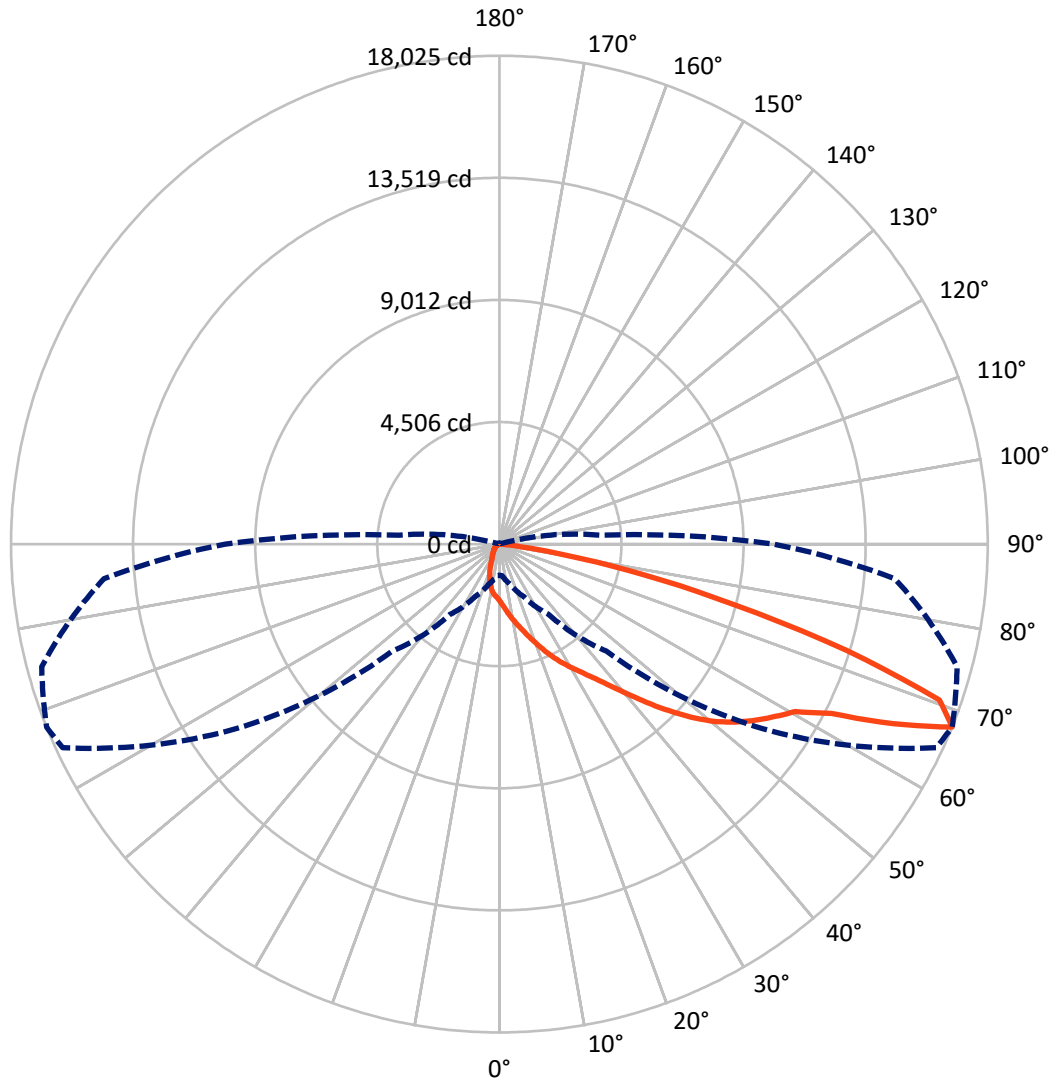
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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
<b>House Side</b>	Lumens	1299.5	0.0	1299.5
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	16696.1	0.0	16696.1
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	17995.6	0.0	17995.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.2	1.1
10°-20°	586.5	3.3
20°-30°	1008.0	5.6
30°-40°	1752.5	9.7
40°-50°	3057.9	17.0
50°-60°	4612.2	25.6
60°-70°	4624.8	25.7
70°-80°	2040.4	11.3
80°-90°	109.0	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°	17995.6	100.0
0°-180°	17995.6	100.0

**Coefficient of Utilization**



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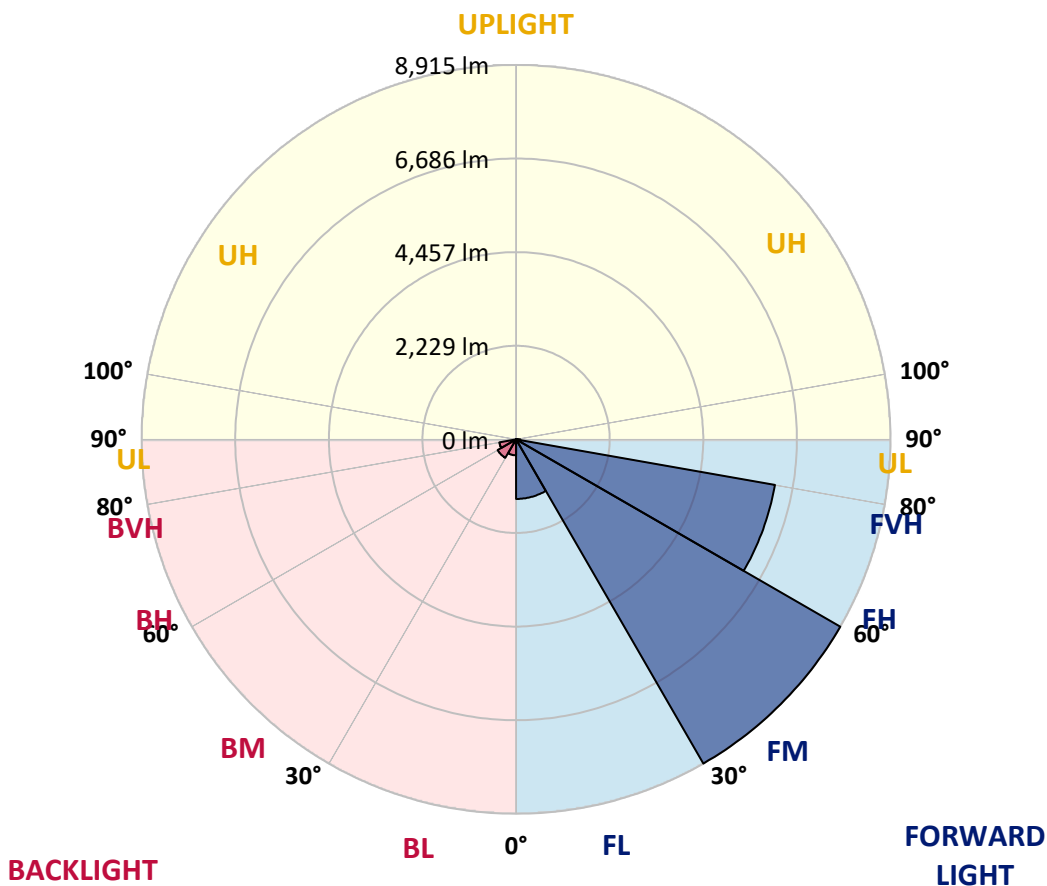
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1418.6	7.9			
FM (30°-60°)	8915.0	49.5			
FH (60°-80°)	6259.7	34.8			G3/7500
FVH (80°-90°)	102.8	0.6			G2/225
BL (0°-30°)	380.2	2.1	B1/500		
BM (30°-60°)	507.6	2.8	B1/1000		
BH (60°-80°)	405.5	2.3	B1/500		G1/500
BVH (80°-90°)	6.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	2094.2	2094.2	2094.2	2094.2	2094.2	2094.2	2094.2	2094.2	2094.2	2094.2	2094.2
2.5°	2438.7	2454.2	2438.7	2442.1	2397.3	2376.7	2331.9	2269.9	2254.4	2214.8	2154.5
5°	2736.6	2750.4	2734.9	2731.5	2679.8	2641.9	2567.8	2461.1	2430.1	2352.6	2233.7
7.5°	2898.5	2907.1	2912.3	2920.9	2902.0	2871.0	2803.8	2671.2	2638.5	2512.7	2345.7
10°	2915.7	2922.6	2948.5	3000.1	3038.0	3057.0	3019.1	2896.8	2845.1	2722.8	2483.5
12.5°	2867.5	2877.8	2919.2	3005.3	3110.3	3206.8	3230.9	3124.1	3077.6	2920.9	2645.3
15°	2803.8	2812.4	2869.2	2986.3	3144.8	3322.2	3422.1	3375.6	3323.9	3160.3	2824.5
17.5°	2705.6	2717.7	2796.9	2955.3	3160.3	3413.5	3628.7	3644.2	3608.1	3430.7	3022.5
20°	2650.5	2659.1	2729.7	2893.3	3150.0	3480.6	3821.6	3968.0	3928.4	3742.4	3249.8
22.5°	2697.0	2703.9	2750.4	2877.8	3115.5	3518.5	4000.7	4291.8	4269.4	4076.5	3489.2
25°	2941.6	2964.0	2936.4	2958.8	3131.0	3539.2	4145.4	4615.6	4620.7	4426.1	3737.2
27.5°	3437.6	3408.3	3342.8	3230.9	3251.6	3594.3	4269.4	4920.4	4965.2	4767.1	3957.7
30°	3942.2	3925.0	3885.3	3711.4	3566.7	3716.6	4374.5	5232.1	5302.7	5103.0	4154.0
32.5°	4508.8	4526.0	4455.4	4247.0	4000.7	3964.6	4483.0	5528.4	5661.0	5483.6	4384.8
35°	5185.6	5190.8	5051.3	4820.5	4541.5	4374.5	4677.6	5855.6	6100.1	5969.2	4693.1
37.5°	5845.2	5876.2	5800.5	5437.1	5189.1	4884.2	4999.6	6275.8	6620.2	6568.6	5080.6
40°	6429.1	6477.3	6453.2	6101.9	5776.4	5519.7	5499.1	6768.4	7248.9	7307.4	5592.1
42.5°	6894.1	6925.1	6944.0	6694.3	6406.7	6262.0	6115.6	7340.1	7991.1	8230.5	6219.0
45°	7384.9	7395.3	7434.9	7266.1	7014.6	7026.7	6844.1	8034.2	8773.0	9253.5	6938.9
47.5°	8010.1	8044.5	8025.6	7848.2	7620.9	7756.9	7596.8	8748.9	9544.6	10345.4	7676.0
50°	8771.3	8807.5	8790.3	8583.6	8330.4	8387.3	8287.4	9443.0	10288.6	11375.3	8289.1
52.5°	9164.0	9193.3	9406.8	9499.8	9367.2	9005.5	8876.4	10205.9	10917.2	12222.7	8852.3
55°	8974.5	8995.2	9460.2	9852.9	10338.5	9976.9	9468.8	10794.9	11471.8	12884.0	9270.8
57.5°	8189.2	8301.1	8933.2	9598.0	10619.3	10936.2	10429.8	11435.6	12005.7	13343.8	9682.4
60°	6578.9	6573.7	7479.6	8673.1	10071.6	11199.7	11786.9	12301.9	12541.3	13696.9	10233.5
62.5°	3635.6	3668.3	4873.9	6446.3	8549.1	10517.7	12804.8	13798.5	13762.3	14313.4	11096.3
65°	1810.1	1875.5	2530.0	3692.5	5688.5	8692.1	12980.4	16082.2	15978.8	15765.3	12878.8
67.5°	1148.7	1174.6	1536.2	2145.9	3162.0	5586.9	11886.8	17785.5	18024.8	17487.5	14647.6
70°	744.0	787.1	1067.8	1467.3	1908.2	2879.6	8707.6	16681.5	17230.9	17298.1	13545.3
72.5°	404.7	435.7	682.0	1047.1	1377.8	1439.8	4891.1	12518.9	13402.4	14673.4	10596.9
75°	230.8	253.2	373.7	711.3	1010.9	876.6	2168.3	8380.4	8943.5	10486.7	7593.3
77.5°	139.5	158.4	210.1	346.2	633.8	585.6	819.8	5101.2	5459.5	6256.9	3985.2
80°	63.7	75.8	132.6	191.2	346.2	277.3	313.4	2378.4	2455.9	2567.8	1319.2
82.5°	29.3	34.4	60.3	113.7	196.3	160.2	120.6	549.4	773.3	731.9	335.8
85°	3.4	3.4	22.4	46.5	55.1	41.3	49.9	124.0	156.7	220.4	96.4
87.5°	0.0	0.0	1.7	1.7	3.4	5.2	10.3	15.5	22.4	36.2	24.1
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°	2094.2	2094.2	2094.2	2094.2	2094.2	2094.2	2094.2	2094.2	2094.2	2094.2	2094.2
2.5°	2127.0	2078.7	2035.7	1972.0	1928.9	1880.7	1848.0	1808.3	1792.8	1780.8	1763.6
5°	2175.2	2097.7	1992.6	1875.5	1779.1	1687.8	1603.4	1548.3	1500.1	1493.2	1469.1
7.5°	2254.4	2139.0	1961.6	1770.5	1606.8	1455.3	1336.4	1240.0	1191.8	1176.3	1148.7
10°	2359.5	2201.0	1915.1	1622.3	1386.4	1205.6	1071.2	962.7	886.9	859.4	838.7
12.5°	2476.6	2257.8	1841.1	1439.8	1171.1	964.4	793.9	678.6	630.3	613.1	597.6
15°	2610.9	2311.2	1724.0	1257.2	961.0	709.6	589.0	539.1	518.4	513.2	508.1
17.5°	2740.1	2345.7	1584.5	1067.8	738.8	551.1	494.3	475.3	470.2	465.0	461.6
20°	2886.5	2369.8	1420.8	888.7	573.5	466.7	439.2	425.4	415.1	404.7	403.0
22.5°	3036.3	2369.8	1243.4	713.0	480.5	418.5	387.5	361.7	342.7	332.4	328.9
25°	3179.2	2337.1	1067.8	570.1	423.7	372.0	332.4	303.1	277.3	265.2	261.8
27.5°	3280.8	2252.7	914.5	482.2	384.1	330.7	282.4	249.7	229.1	217.0	215.3
30°	3344.6	2127.0	773.3	430.6	349.6	287.6	239.4	211.8	196.3	187.7	184.3
32.5°	3392.8	1972.0	647.6	394.4	316.9	249.7	208.4	186.0	172.2	165.3	163.6
35°	3489.2	1825.6	554.6	361.7	282.4	218.7	182.6	165.3	155.0	146.4	144.7
37.5°	3623.6	1703.3	480.5	332.4	249.7	194.6	165.3	149.8	141.2	132.6	130.9
40°	3821.6	1625.8	425.4	303.1	220.4	175.7	151.6	137.8	125.7	117.1	115.4
42.5°	4126.5	1589.6	389.2	273.8	194.6	158.4	139.5	122.3	110.2	101.6	99.9
45°	4489.9	1608.6	358.2	244.6	177.4	146.4	124.0	106.8	94.7	86.1	84.4
47.5°	4879.1	1675.7	332.4	217.0	160.2	134.3	110.2	91.3	80.9	72.3	70.6
50°	5285.5	1786.0	310.0	191.2	146.4	120.6	94.7	79.2	68.9	62.0	60.3
52.5°	5638.6	1935.8	287.6	172.2	134.3	106.8	82.7	68.9	58.6	51.7	49.9
55°	5976.1	2077.0	270.4	155.0	120.6	93.0	72.3	58.6	49.9	43.1	41.3
57.5°	6343.0	2226.8	249.7	139.5	108.5	82.7	63.7	49.9	43.1	36.2	34.4
60°	6876.9	2449.0	218.7	127.4	94.7	72.3	55.1	44.8	37.9	29.3	27.6
62.5°	7646.7	2853.7	184.3	110.2	80.9	62.0	46.5	37.9	31.0	24.1	20.7
65°	9086.5	3542.6	151.6	91.3	65.4	51.7	39.6	31.0	24.1	17.2	15.5
67.5°	10123.3	3721.7	122.3	74.1	53.4	39.6	32.7	24.1	17.2	12.1	10.3
70°	8850.5	2672.9	94.7	60.3	44.8	31.0	25.8	18.9	12.1	8.6	6.9
72.5°	6668.5	1746.3	70.6	46.5	34.4	25.8	18.9	15.5	10.3	6.9	5.2
75°	4700.0	1009.2	51.7	34.4	24.1	18.9	15.5	12.1	8.6	5.2	5.2
77.5°	2409.4	416.8	36.2	24.1	17.2	12.1	10.3	6.9	6.9	5.2	3.4
80°	731.9	137.8	20.7	15.5	12.1	8.6	5.2	5.2	5.2	3.4	1.7
82.5°	167.1	44.8	12.1	12.1	8.6	6.9	5.2	1.7	1.7	0.0	0.0
85°	43.1	13.8	10.3	8.6	8.6	6.9	3.4	1.7	0.0	0.0	0.0
87.5°	15.5	8.6	8.6	8.6	6.9	5.2	3.4	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)