

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: P640533

Luminaire Tested: GWS-SA5E-722-U-T3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640533  
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-SA5E-722-U-T3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

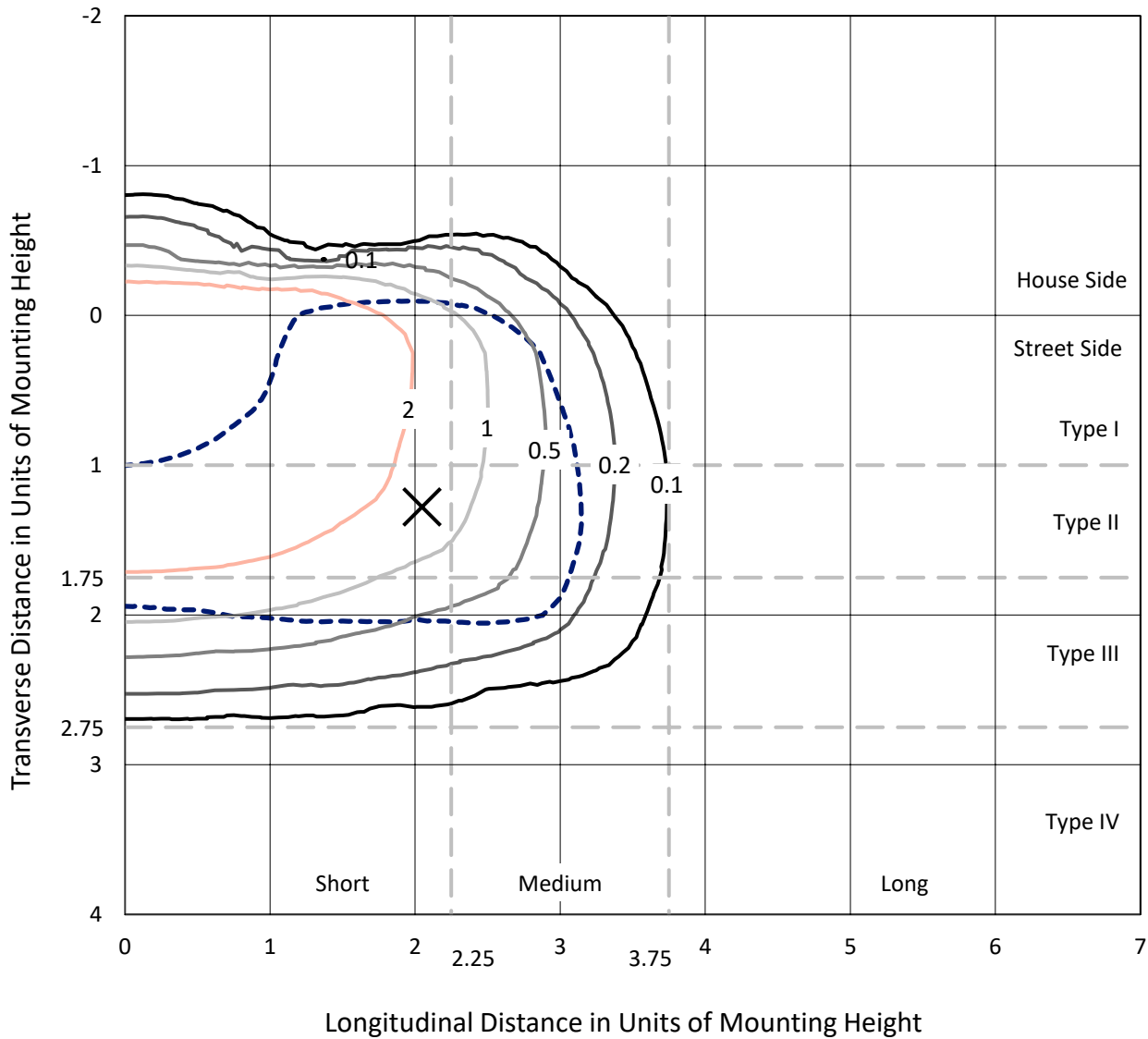
Lumens per Lamp: N/A  
Luminaire Lumens: 20300.8 lumens  
Efficiency: N/A  
Efficacy: 75.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

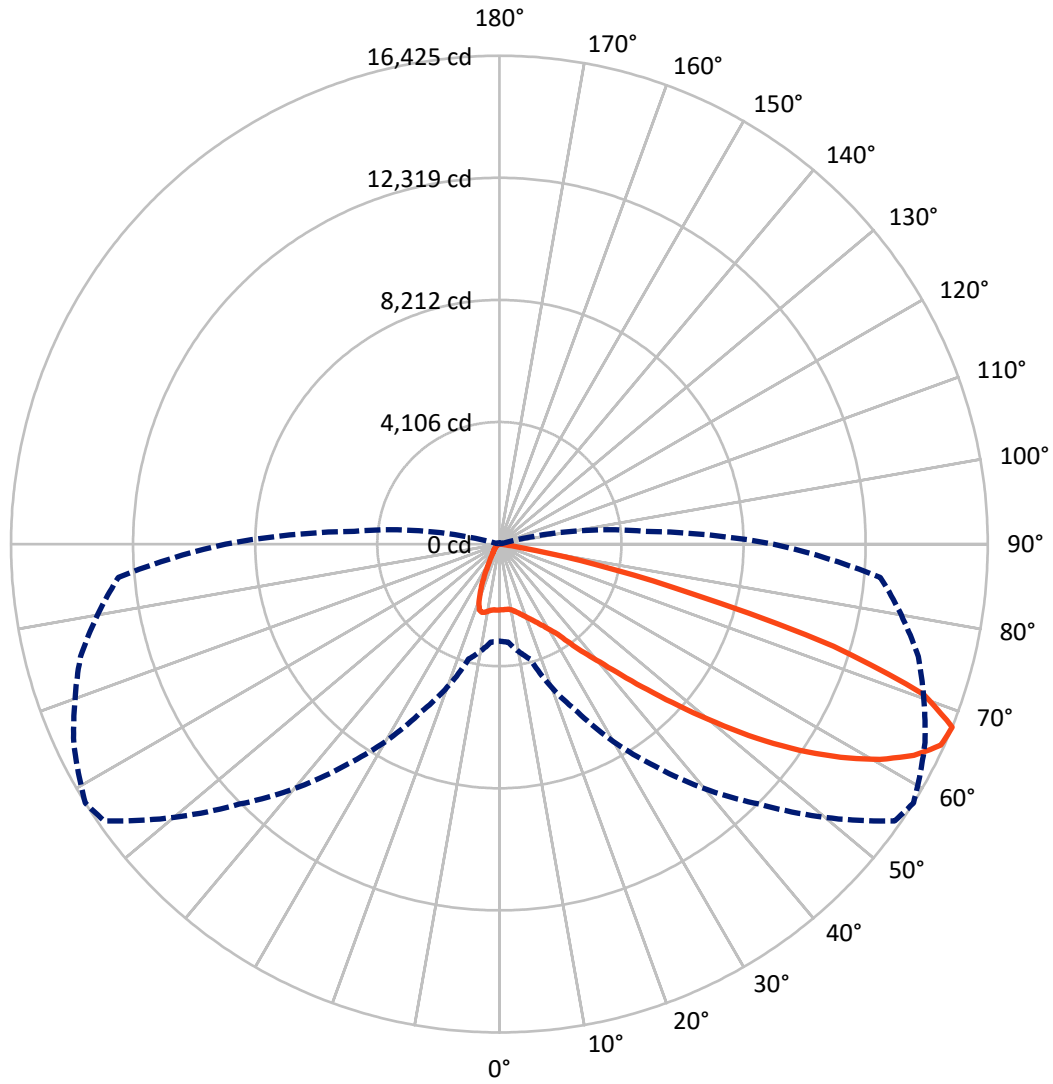
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	2214.8	0.0	2214.8
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	18086.0	0.0	18086.0
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	20300.8	0.0	20300.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.8	1.0
10°-20°	583.5	2.9
20°-30°	1018.5	5.0
30°-40°	1818.8	9.0
40°-50°	3324.5	16.4
50°-60°	5529.0	27.2
60°-70°	6005.4	29.6
70°-80°	1763.2	8.7
80°-90°	50.2	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°	20300.8	100.0
0°-180°	20300.8	100.0

**Coefficient of Utilization**



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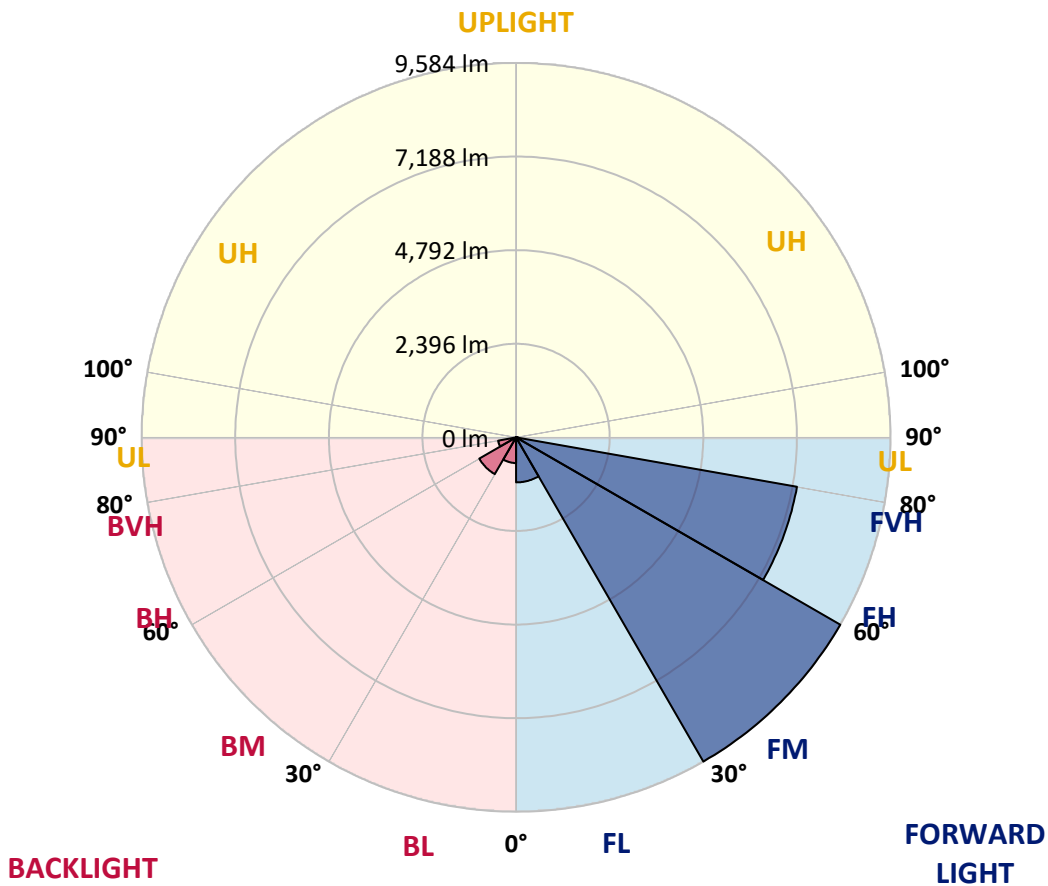
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1152.8	5.7			
FM (30°-60°)	9584.4	47.2			
FH (60°-80°)	7301.1	36.0			G3/7500
FVH (80°-90°)	47.7	0.2			G1/100
BL (0°-30°)	657.0	3.2	B2/1000		
BM (30°-60°)	1087.8	5.4	B2/2500		
BH (60°-80°)	467.5	2.3	B1/500		G1/500
BVH (80°-90°)	2.5	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°	2212.2	2212.2	2212.2	2212.2	2212.2	2212.2	2212.2	2212.2	2212.2	2212.2	2212.2
2.5°	2170.6	2166.6	2166.6	2182.4	2184.4	2192.4	2210.2	2212.2	2222.1	2218.1	2204.3
5°	2057.6	2059.5	2071.4	2099.2	2123.0	2152.7	2196.3	2206.2	2228.0	2239.9	2232.0
7.5°	1952.5	1954.5	1972.3	2015.9	2061.5	2121.0	2192.4	2212.2	2255.8	2287.5	2289.5
10°	1912.9	1910.9	1928.7	1978.3	2037.7	2121.0	2224.1	2249.8	2315.3	2370.8	2380.7
12.5°	1924.8	1922.8	1940.6	1986.2	2051.6	2156.7	2279.6	2315.3	2398.5	2483.7	2501.6
15°	1972.3	1970.3	1982.2	2019.9	2091.3	2200.3	2350.9	2404.5	2509.5	2612.6	2640.3
17.5°	2115.1	2105.1	2093.2	2097.2	2138.8	2251.8	2442.1	2507.5	2638.4	2761.3	2785.0
20°	2368.8	2343.0	2311.3	2269.7	2249.8	2327.2	2547.2	2622.5	2781.1	2921.8	2925.8
22.5°	2751.4	2741.4	2668.1	2547.2	2461.9	2463.9	2670.1	2757.3	2951.6	3106.2	3084.4
25°	3284.6	3278.6	3165.6	2967.4	2745.4	2670.1	2826.7	2915.9	3153.7	3318.3	3248.9
27.5°	3946.6	3905.0	3772.2	3504.6	3173.6	2937.7	3024.9	3104.2	3367.8	3522.4	3391.6
30°	4523.5	4525.5	4400.6	4121.1	3748.4	3340.1	3266.7	3336.1	3564.1	3726.6	3568.0
32.5°	5078.5	5096.3	4959.6	4707.8	4299.5	3865.4	3613.6	3625.5	3815.8	3992.2	3800.0
35°	5593.9	5607.8	5512.6	5298.5	4917.9	4414.5	4097.3	4091.3	4194.4	4374.8	4123.1
37.5°	6170.7	6184.6	6091.4	5899.1	5542.3	5042.8	4646.4	4638.4	4680.1	4826.8	4539.3
40°	6785.2	6811.0	6707.9	6545.4	6204.4	5782.2	5284.7	5213.3	5171.7	5344.1	5078.5
42.5°	7407.6	7447.3	7411.6	7249.1	6957.7	6608.8	6113.2	6002.2	5913.0	6129.1	5847.6
45°	8180.7	8228.3	8212.4	8087.5	7861.6	7578.1	7110.3	6981.5	6939.8	7140.0	6805.0
47.5°	8924.0	8975.6	9033.1	9005.3	8844.8	8713.9	8194.6	8121.2	8109.3	8323.4	7804.1
50°	9477.1	9524.7	9744.7	9903.3	10012.3	9984.5	9534.6	9425.6	9407.7	9544.5	8858.6
52.5°	9873.5	9919.1	10222.4	10718.0	11118.4	11336.4	10882.5	10858.7	10761.6	10714.0	9845.8
55°	10180.8	10244.2	10563.4	11312.6	12119.4	12603.1	12319.6	12234.4	11984.6	11711.1	10761.6
57.5°	10242.2	10268.0	10718.0	11728.9	12896.5	13679.4	13679.4	13530.8	13049.1	12670.5	11820.1
60°	9691.2	9770.5	10379.0	11695.2	13229.5	14383.1	14807.3	14704.3	14054.1	13588.3	12839.0
62.5°	8468.1	8557.3	9298.7	10888.4	12896.5	14527.8	15661.7	15645.8	14912.4	14347.5	13683.4
65°	6493.8	6559.2	7205.4	9108.4	11489.1	13970.8	16272.2	16315.8	15590.3	14849.0	13974.8
67.5°	3262.8	3308.4	4006.1	6222.3	9106.4	12367.2	16230.6	16424.8	15796.5	14583.3	12862.8
70°	1139.8	1185.4	1514.4	2670.1	5542.3	9443.4	14827.2	15144.3	14585.3	12448.5	9489.0
72.5°	390.5	412.3	628.4	991.1	2156.7	5597.8	11275.0	11752.7	10751.7	8357.1	5453.1
75°	222.0	235.9	337.0	537.2	903.9	1841.5	6396.7	6690.1	6267.8	4555.2	2243.9
77.5°	150.7	162.5	210.1	305.3	499.5	592.7	2608.6	3284.6	2864.3	1486.7	572.9
80°	89.2	97.1	128.8	180.4	255.7	229.9	559.0	743.3	957.4	444.0	172.5
82.5°	41.6	47.6	83.3	118.9	128.8	97.1	164.5	200.2	269.6	218.0	71.4
85°	0.0	0.0	27.8	49.6	47.6	27.8	45.6	49.6	73.3	109.0	27.8
87.5°	0.0	0.0	0.0	0.0	0.0	2.0	4.0	5.9	11.9	21.8	11.9
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°	2212.2	2212.2	2212.2	2212.2	2212.2	2212.2	2212.2	2212.2	2212.2	2212.2	2212.2
2.5°	2220.1	2206.2	2222.1	2214.2	2222.1	2220.1	2204.3	2194.3	2194.3	2176.5	2170.6
5°	2247.9	2234.0	2237.9	2220.1	2216.1	2206.2	2186.4	2178.5	2178.5	2160.6	2154.7
7.5°	2309.3	2287.5	2283.5	2247.9	2232.0	2204.3	2168.6	2154.7	2152.7	2134.9	2128.9
10°	2406.4	2380.7	2362.8	2317.2	2271.6	2216.1	2140.8	2077.4	2041.7	1994.1	1990.2
12.5°	2525.4	2493.7	2465.9	2396.5	2321.2	2196.3	1974.3	1742.4	1599.7	1486.7	1494.6
15°	2658.2	2628.5	2584.8	2479.8	2325.2	2000.1	1536.2	1179.4	1005.0	911.8	907.9
17.5°	2802.9	2759.3	2687.9	2545.2	2200.3	1528.3	999.0	705.7	614.5	582.8	574.8
20°	2937.7	2884.2	2795.0	2559.1	1839.5	1034.7	624.4	547.1	531.2	521.3	521.3
22.5°	3080.4	3013.0	2880.2	2452.0	1367.7	662.1	531.2	513.4	501.5	487.6	485.6
25°	3225.1	3137.9	2957.5	2172.5	896.0	521.3	497.5	477.7	455.9	434.1	428.2
27.5°	3348.0	3235.0	3017.0	1756.3	574.8	469.8	453.9	420.2	390.5	366.7	362.8
30°	3494.7	3350.0	3042.7	1284.5	452.0	414.3	390.5	354.8	319.1	295.4	287.4
32.5°	3690.9	3532.4	3003.1	836.5	400.4	364.7	327.1	285.4	249.8	224.0	220.0
35°	3996.2	3807.9	2820.7	533.2	362.8	315.2	269.6	226.0	196.2	176.4	172.5
37.5°	4368.9	4194.4	2521.4	400.4	325.1	273.5	220.0	178.4	156.6	142.7	138.8
40°	4921.9	4678.1	2150.7	350.9	287.4	231.9	180.4	146.7	130.8	118.9	115.0
42.5°	5639.5	5249.0	1724.5	319.1	251.7	194.3	146.7	120.9	107.0	99.1	97.1
45°	6478.0	5806.0	1274.6	287.4	218.0	160.6	120.9	99.1	89.2	83.3	81.3
47.5°	7336.3	6293.6	880.1	253.7	186.3	132.8	101.1	85.2	77.3	69.4	67.4
50°	8252.1	6705.9	600.6	220.0	158.6	109.0	87.2	77.3	67.4	61.4	59.5
52.5°	8924.0	6858.6	418.3	190.3	134.8	93.2	77.3	69.4	61.4	53.5	51.5
55°	9544.5	6854.6	317.2	160.6	115.0	81.3	69.4	61.4	53.5	47.6	45.6
57.5°	10162.9	6801.1	249.8	136.8	99.1	73.3	61.4	53.5	49.6	41.6	39.6
60°	10563.4	6598.9	194.3	115.0	85.2	63.4	53.5	47.6	41.6	35.7	33.7
62.5°	10775.5	6317.4	148.7	91.2	69.4	55.5	47.6	41.6	35.7	29.7	27.8
65°	10488.0	5817.9	117.0	71.4	53.5	47.6	39.6	33.7	27.8	21.8	19.8
67.5°	9213.5	4906.0	91.2	57.5	41.6	35.7	33.7	27.8	19.8	15.9	13.9
70°	6511.7	3359.9	71.4	43.6	31.7	27.8	25.8	21.8	15.9	11.9	9.9
72.5°	3574.0	1694.8	51.5	31.7	23.8	21.8	19.8	17.8	13.9	9.9	9.9
75°	1375.7	465.8	37.7	21.8	15.9	15.9	13.9	13.9	11.9	7.9	7.9
77.5°	358.8	138.8	23.8	13.9	9.9	9.9	9.9	7.9	7.9	5.9	5.9
80°	115.0	45.6	13.9	9.9	7.9	5.9	5.9	4.0	5.9	4.0	4.0
82.5°	37.7	15.9	7.9	7.9	5.9	4.0	4.0	2.0	2.0	0.0	0.0
85°	13.9	7.9	5.9	4.0	4.0	4.0	2.0	0.0	0.0	0.0	0.0
87.5°	7.9	4.0	4.0	4.0	4.0	2.0	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)