

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: P636550

Luminaire Tested: GWS-SA4B-722-U-SL3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636550  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-722-U-SL3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

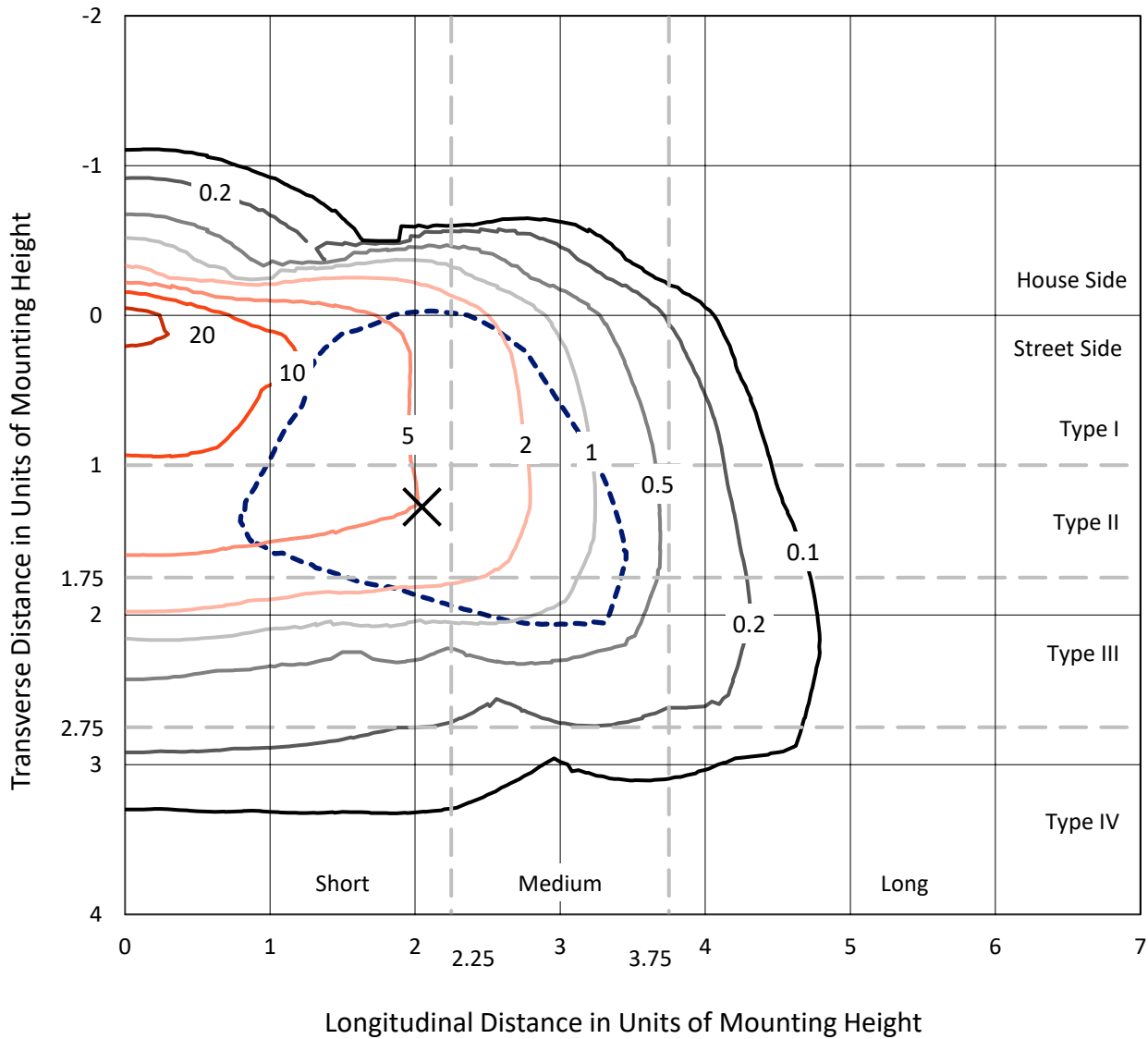
Lumens per Lamp: N/A  
Luminaire Lumens: 8635.1 lumens  
Efficiency: N/A  
Efficacy: 91.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

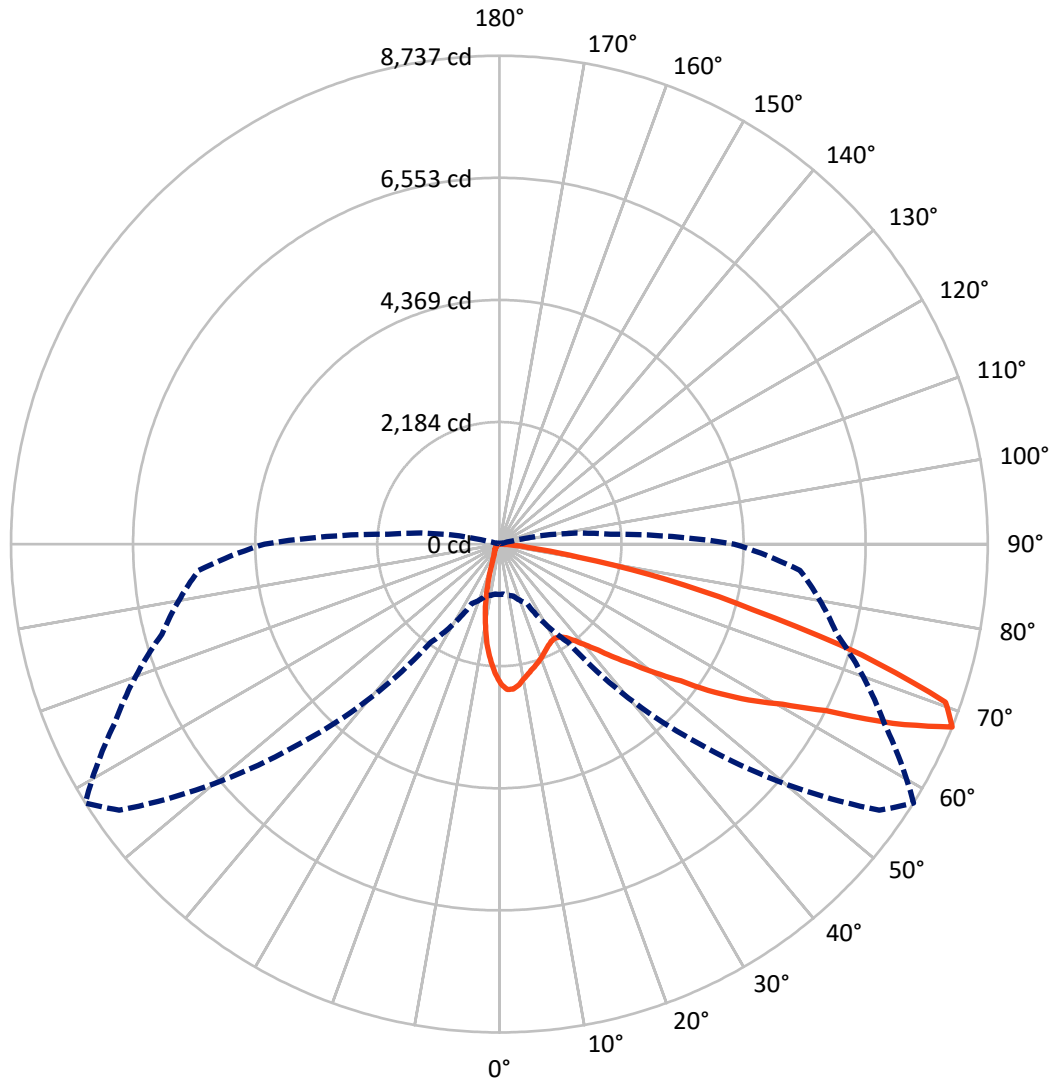
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.9 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	843.6	0.0	843.6
	% Fixture	9.8	0.0	9.8
<b>Street Side</b>	Lumens	7791.5	0.0	7791.5
	% Fixture	90.2	0.0	90.2
<b>Total</b>	Lumens	8635.1	0.0	8635.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.4	2.3
10°-20°	421.3	4.9
20°-30°	568.2	6.6
30°-40°	798.4	9.2
40°-50°	1233.1	14.3
50°-60°	1971.8	22.8
60°-70°	2334.8	27.0
70°-80°	1032.9	12.0
80°-90°	72.2	0.8
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°	8635.1	100.0
0°-180°	8635.1	100.0

**Coefficient of Utilization**

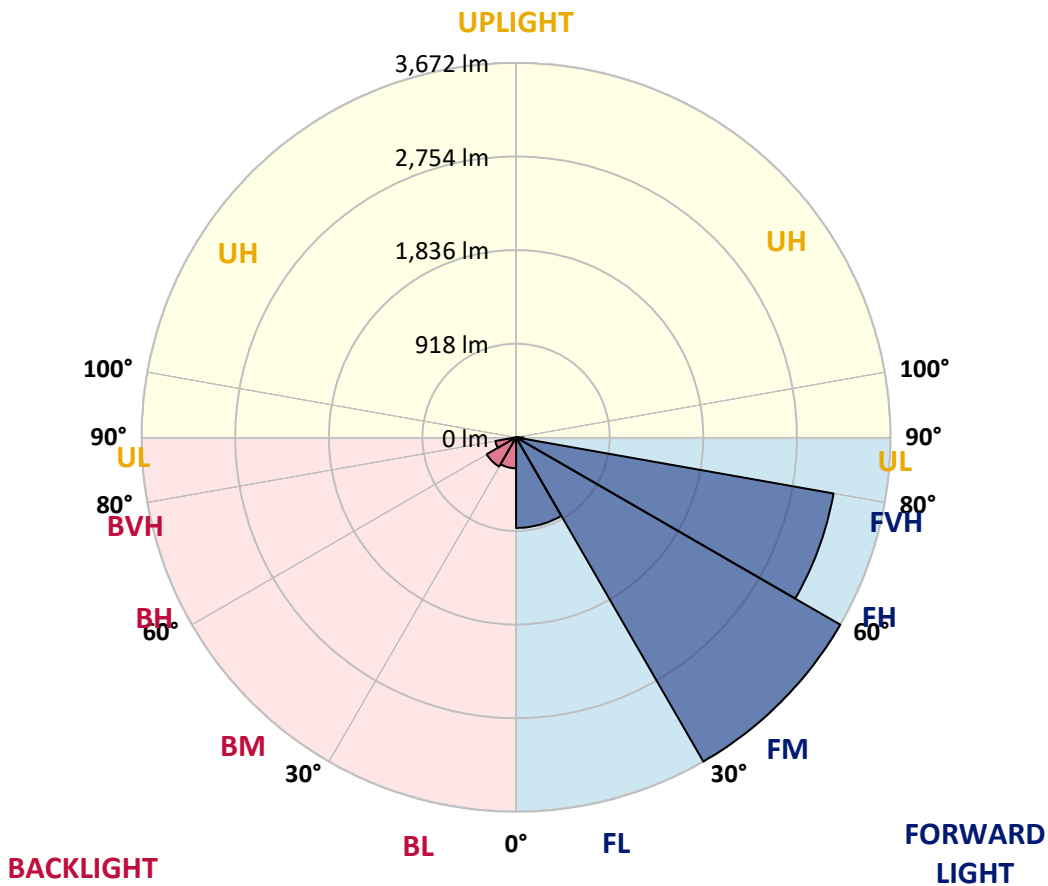


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	888.3	10.3			
FM (30°-60°)	3672.3	42.5			
FH (60°-80°)	3161.7	36.6			G2/5000
FVH (80°-90°)	69.1	0.8			G1/100
BL (0°-30°)	303.6	3.5	B1/500		
BM (30°-60°)	331.0	3.8	B1/1000		
BH (60°-80°)	205.9	2.4	B1/500		G1/500
BVH (80°-90°)	3.1	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2490.8	2490.8	2490.8	2490.8	2490.8	2490.8	2490.8	2490.8	2490.8	2490.8	2490.8
2.5°	2619.9	2624.5	2630.6	2638.3	2636.7	2629.9	2621.5	2602.4	2590.1	2551.9	2505.3
5°	2535.9	2535.1	2550.4	2564.9	2590.9	2604.6	2623.8	2606.2	2600.1	2554.2	2478.5
7.5°	2371.5	2379.9	2397.5	2420.5	2457.9	2498.4	2544.3	2538.9	2557.3	2526.7	2432.7
10°	2210.3	2205.7	2233.2	2267.6	2324.9	2376.9	2443.4	2442.6	2490.8	2487.7	2380.7
12.5°	2068.9	2068.1	2089.5	2128.5	2195.8	2268.4	2358.5	2360.8	2420.5	2444.9	2336.4
15°	1949.7	1951.2	1971.8	2012.3	2081.9	2170.5	2275.2	2294.3	2361.6	2411.3	2292.8
17.5°	1864.8	1865.6	1877.8	1913.0	1981.0	2075.8	2201.9	2227.9	2314.2	2386.1	2257.7
20°	1825.8	1822.8	1825.1	1842.7	1895.4	1981.8	2127.0	2160.6	2270.7	2368.5	2225.6
22.5°	1831.2	1826.6	1815.9	1813.6	1837.3	1903.0	2047.5	2088.8	2223.3	2357.8	2196.5
25°	1878.6	1868.6	1853.4	1830.4	1821.3	1854.1	1977.9	2020.7	2178.9	2358.5	2174.4
27.5°	1951.2	1940.5	1921.4	1890.8	1854.9	1841.1	1930.6	1971.1	2147.6	2376.1	2163.7
30°	2043.7	2035.3	2016.9	1980.2	1932.1	1875.5	1920.6	1954.2	2132.3	2412.0	2168.2
32.5°	2153.0	2146.8	2131.6	2097.9	2042.9	1956.5	1954.2	1980.2	2144.6	2464.0	2185.8
35°	2258.4	2260.7	2261.5	2243.1	2184.3	2079.6	2046.7	2055.9	2195.0	2542.0	2225.6
37.5°	2372.3	2367.0	2394.5	2407.5	2350.9	2239.3	2189.6	2190.4	2291.3	2657.4	2300.5
40°	2458.7	2460.2	2519.8	2573.3	2549.6	2441.9	2370.8	2370.0	2439.6	2815.6	2421.2
42.5°	2539.7	2549.6	2637.5	2729.2	2762.1	2666.6	2615.3	2596.2	2647.4	3029.6	2602.4
45°	2626.0	2640.6	2763.6	2894.3	2980.7	2924.1	2883.6	2891.2	2897.4	3278.7	2846.2
47.5°	2726.9	2736.1	2888.2	3072.4	3233.6	3219.1	3221.4	3212.2	3209.2	3592.9	3168.7
50°	2849.2	2870.6	3045.6	3265.7	3485.9	3582.2	3614.3	3618.1	3568.4	3935.2	3502.7
52.5°	3109.1	3135.1	3284.8	3477.4	3761.0	3963.5	4094.2	4068.2	3991.8	4266.9	3868.8
55°	3415.5	3435.4	3579.9	3779.3	4097.3	4381.6	4691.9	4681.2	4493.9	4616.2	4169.9
57.5°	3444.6	3466.7	3690.7	3996.4	4529.1	4898.2	5224.6	5259.0	4984.6	4863.8	4438.9
60°	3118.2	3163.3	3469.0	3880.2	4694.2	5593.0	5808.5	5815.4	5344.6	5115.3	4767.5
62.5°	2499.2	2520.6	2828.6	3365.1	4439.7	5998.0	6700.4	6555.2	5807.0	5504.3	5288.0
65°	1310.0	1397.1	1665.4	2259.2	3600.5	5856.6	7773.4	7733.7	6638.5	6061.5	5693.1
67.5°	898.8	898.0	961.5	1177.7	2146.8	5042.7	8300.0	8737.2	7599.9	6252.5	5399.6
70°	684.0	686.3	742.9	883.5	1112.0	3356.7	7722.2	8469.7	7778.8	5677.0	4367.1
72.5°	454.0	458.6	552.6	713.8	888.1	1645.5	6001.1	6776.8	6545.2	4559.7	3073.9
75°	271.3	275.1	342.4	518.9	789.5	920.9	3813.0	4685.0	4505.4	3142.7	1647.8
77.5°	111.6	114.6	175.8	323.3	577.8	715.4	2108.6	3065.5	2698.7	1249.6	450.2
80°	46.6	48.1	84.8	226.2	416.5	448.6	976.7	1440.7	1105.9	269.0	137.6
82.5°	16.8	17.6	31.3	124.6	259.1	337.8	493.0	569.4	311.8	87.9	74.1
85°	0.8	0.8	7.6	42.0	98.6	95.5	282.0	272.8	103.2	36.7	44.3
87.5°	0.0	0.0	0.8	0.8	1.5	3.8	26.7	47.4	22.2	9.2	19.1
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°	2490.8	2490.8	2490.8	2490.8	2490.8	2490.8	2490.8	2490.8	2490.8	2490.8	2490.8
2.5°	2474.7	2434.2	2389.9	2348.6	2282.9	2243.9	2195.8	2174.4	2143.8	2136.1	2140.7
5°	2424.3	2354.7	2248.5	2152.2	2027.6	1927.5	1826.6	1783.8	1728.8	1692.1	1676.8
7.5°	2353.2	2262.3	2096.4	1921.4	1750.2	1567.5	1428.4	1336.7	1253.4	1207.6	1198.4
10°	2281.4	2162.9	1925.2	1674.5	1409.3	1190.7	1002.7	863.6	750.5	699.3	659.6
12.5°	2207.2	2059.7	1751.0	1423.8	1115.8	817.8	585.4	450.2	369.1	337.0	342.4
15°	2139.2	1960.4	1578.2	1173.2	785.7	493.7	323.3	272.8	253.7	247.6	246.9
17.5°	2074.2	1866.4	1406.3	929.4	518.2	302.7	247.6	235.4	230.0	227.0	227.0
20°	2015.4	1776.2	1238.1	700.1	334.8	240.0	223.9	217.8	213.2	210.9	210.9
22.5°	1960.4	1689.0	1073.8	495.2	246.9	215.5	205.6	199.5	194.1	191.1	191.1
25°	1910.7	1610.3	917.1	340.9	212.5	197.2	186.5	179.6	170.4	165.1	165.1
27.5°	1874.8	1540.0	766.6	248.4	191.8	177.3	165.1	155.9	146.0	139.9	138.3
30°	1853.4	1480.4	614.5	204.1	172.7	158.2	144.4	133.0	121.5	115.4	114.6
32.5°	1841.1	1425.4	475.4	178.1	156.7	139.9	124.6	112.3	100.9	94.0	93.2
35°	1845.7	1382.6	356.2	160.5	141.4	123.8	107.0	94.8	84.8	78.7	77.2
37.5°	1885.5	1363.5	267.5	146.7	128.4	110.1	92.5	81.0	71.8	67.3	66.5
40°	1962.7	1367.3	210.2	136.0	117.7	96.3	79.5	68.8	61.9	58.1	57.3
42.5°	2082.6	1399.4	173.5	126.9	106.2	84.1	68.8	60.4	53.5	49.7	48.9
45°	2261.5	1465.9	151.3	116.2	94.0	72.6	59.6	52.0	45.9	41.3	40.5
47.5°	2520.6	1581.3	136.8	106.2	83.3	62.7	51.2	43.6	38.2	34.4	33.6
50°	2796.5	1719.6	124.6	96.3	74.1	54.3	43.6	35.9	31.3	27.5	26.7
52.5°	3090.7	1868.6	115.4	87.1	65.7	46.6	36.7	29.8	25.2	21.4	20.6
55°	3373.5	2018.4	104.7	81.0	55.8	39.7	30.6	24.5	19.9	16.8	16.8
57.5°	3648.6	2156.0	93.2	71.1	45.9	33.6	25.2	19.9	16.0	13.8	13.0
60°	3977.3	2346.3	80.2	60.4	38.2	28.3	20.6	16.0	13.0	10.7	10.7
62.5°	4465.7	2544.3	68.8	50.4	32.1	23.7	16.8	13.0	10.7	9.2	8.4
65°	4625.4	2437.3	58.1	41.3	26.0	19.1	13.8	11.5	9.2	8.4	7.6
67.5°	4198.9	1997.8	48.1	33.6	21.4	16.0	12.2	9.9	8.4	7.6	6.9
70°	3276.4	1417.7	37.4	25.2	17.6	13.0	10.7	9.2	7.6	6.9	6.9
72.5°	2228.6	838.4	29.8	19.1	14.5	11.5	9.2	8.4	7.6	6.9	6.1
75°	1097.5	298.1	22.9	14.5	11.5	9.9	8.4	7.6	6.9	6.1	6.1
77.5°	295.8	82.5	17.6	11.5	9.2	7.6	7.6	7.6	6.9	5.3	5.3
80°	100.1	34.4	13.0	8.4	7.6	6.1	5.3	6.9	6.1	5.3	4.6
82.5°	55.0	16.8	9.2	6.9	5.3	4.6	4.6	4.6	4.6	3.8	3.8
85°	35.2	9.2	6.1	5.3	5.3	3.8	3.1	3.1	2.3	2.3	2.3
87.5°	16.0	5.3	5.3	4.6	4.6	3.8	2.3	1.5	0.8	0.8	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)