

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: P631260

Luminaire Tested: GWS-SA1F-735-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631260  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1F-735-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

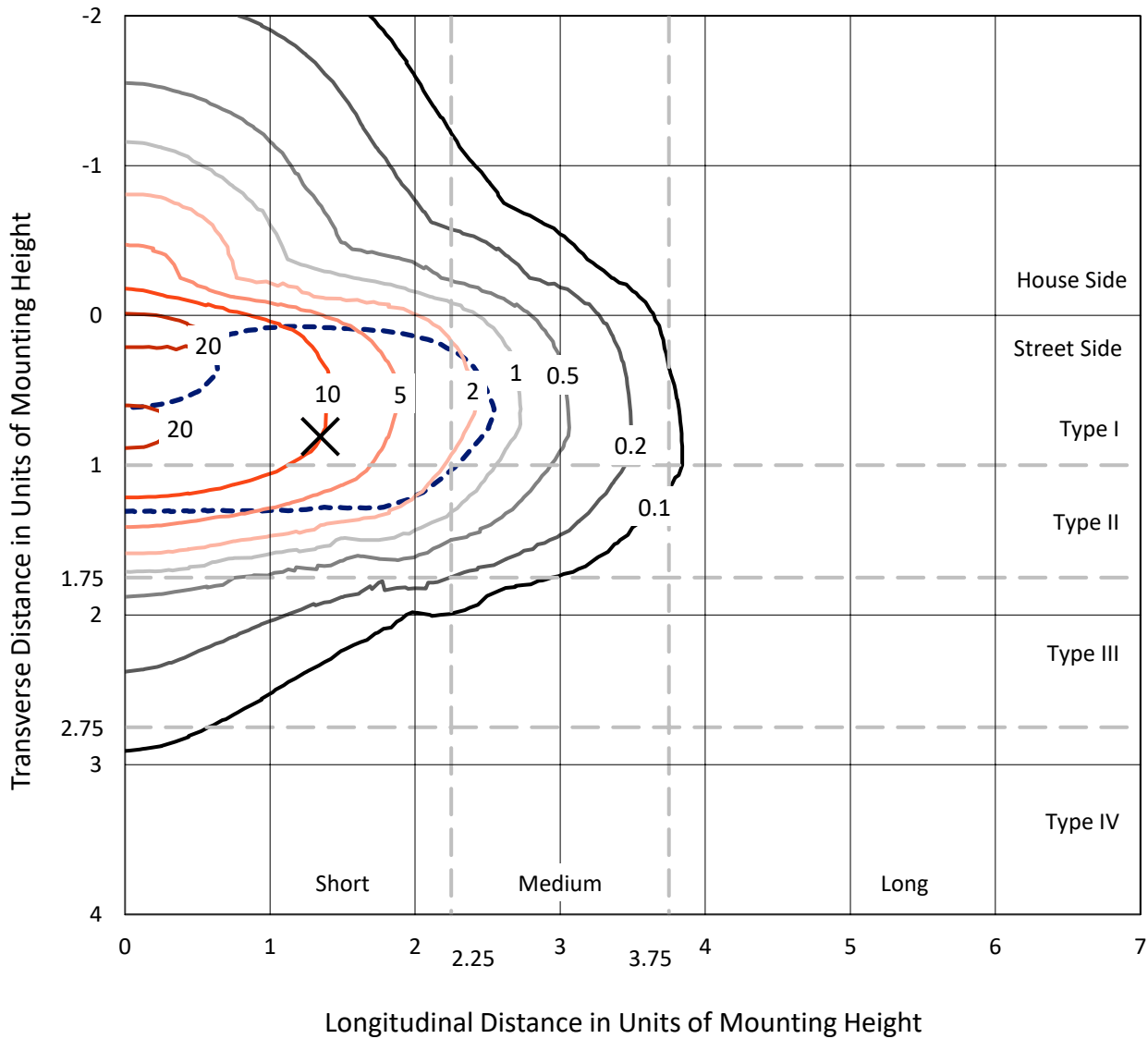
Lumens per Lamp: N/A  
Luminaire Lumens: 8461.6 lumens  
Efficiency: N/A  
Efficacy: 125.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

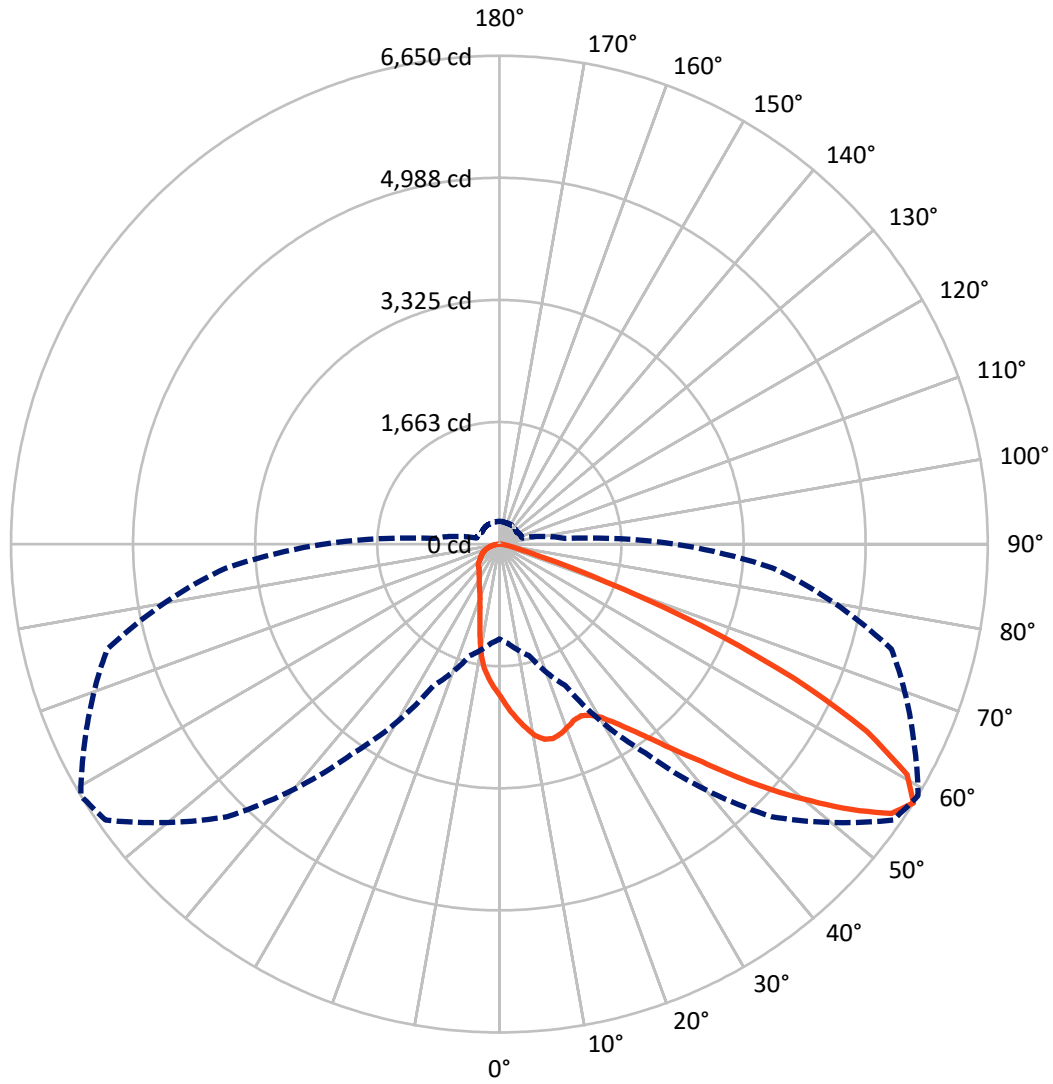
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1313.2	0.0	1313.2
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	7148.4	0.0	7148.4
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	8461.6	0.0	8461.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.9	2.3
10°-20°	488.7	5.8
20°-30°	792.2	9.4
30°-40°	1274.4	15.1
40°-50°	1979.0	23.4
50°-60°	2131.7	25.2
60°-70°	1237.1	14.6
70°-80°	323.0	3.8
80°-90°	42.5	0.5
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°	8461.6	100.0
0°-180°	8461.6	100.0

**Coefficient of Utilization**



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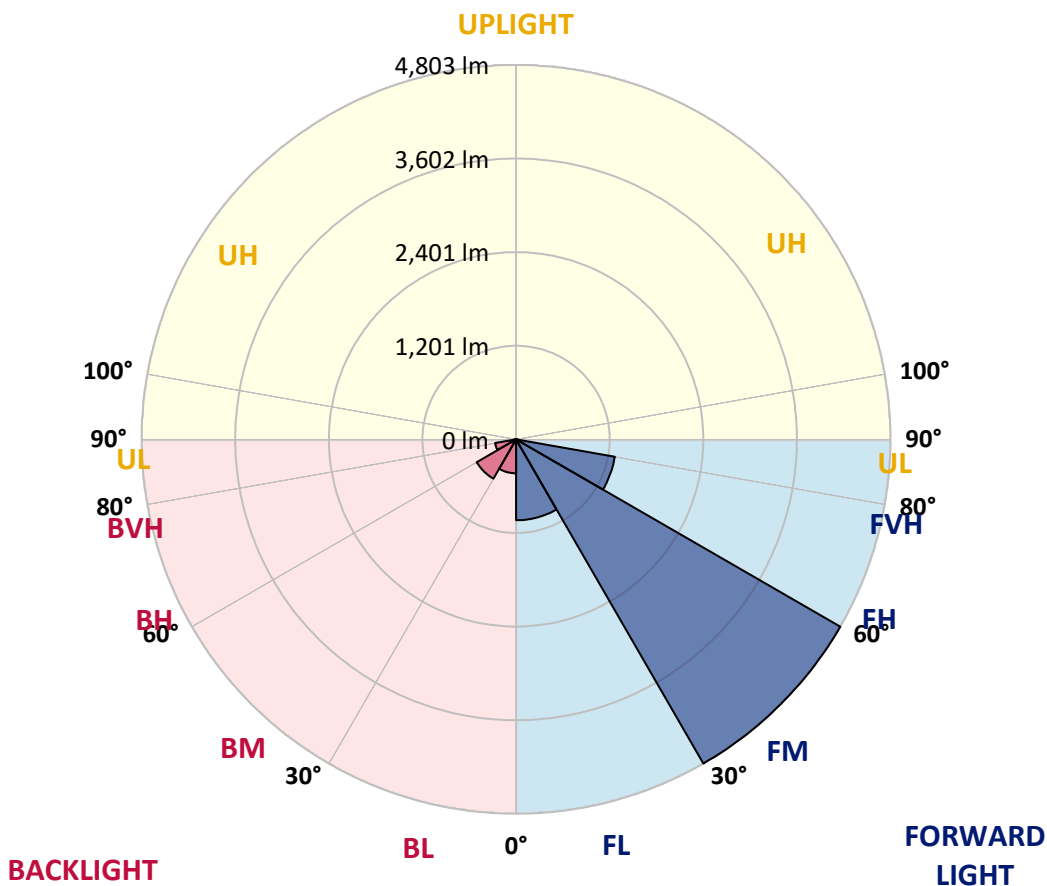
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1038.2	12.3			
FM (30°-60°)	4802.9	56.8			
FH (60°-80°)	1287.0	15.2			G1/1800
FVH (80°-90°)	20.4	0.2			G1/100
BL (0°-30°)	435.7	5.1	B1/500		
BM (30°-60°)	582.2	6.9	B1/1000		
BH (60°-80°)	273.1	3.2	B1/500		G1/500
BVH (80°-90°)	22.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2077.2	2077.2	2077.2	2077.2	2077.2	2077.2	2077.2	2077.2	2077.2	2077.2	2077.2
2.5°	2355.9	2336.3	2350.0	2325.6	2315.4	2288.6	2254.1	2230.8	2195.1	2148.6	2108.1
5°	2590.0	2576.3	2579.3	2553.1	2529.9	2485.2	2414.3	2375.0	2314.2	2220.7	2133.7
7.5°	2582.9	2599.0	2607.9	2630.5	2637.1	2632.9	2569.2	2514.4	2447.7	2307.1	2176.0
10°	2315.4	2345.8	2373.2	2450.6	2544.8	2663.9	2678.8	2646.0	2578.7	2417.3	2226.7
12.5°	2024.1	2047.4	2071.8	2164.7	2308.9	2547.1	2708.6	2728.8	2702.0	2526.3	2283.9
15°	1881.2	1891.9	1915.1	1976.5	2091.5	2355.9	2656.8	2745.5	2793.8	2641.9	2348.2
17.5°	1875.2	1880.0	1891.3	1924.1	2003.9	2208.2	2563.2	2712.2	2865.8	2764.0	2423.2
20°	1998.5	1986.0	1978.9	1978.3	2017.6	2158.8	2472.7	2658.5	2899.8	2889.1	2503.7
22.5°	2169.5	2173.7	2158.2	2120.0	2115.3	2193.9	2427.4	2604.3	2909.9	2999.9	2578.1
25°	2411.9	2432.8	2386.9	2314.2	2278.5	2295.8	2455.4	2587.7	2908.7	3092.2	2624.6
27.5°	2694.9	2711.0	2664.5	2569.2	2495.3	2453.6	2538.8	2637.1	2918.9	3172.0	2652.6
30°	3017.1	3022.5	2958.8	2858.7	2750.9	2661.5	2677.6	2739.0	2970.7	3276.9	2685.3
32.5°	3410.9	3433.5	3337.0	3178.6	3027.9	2913.5	2864.1	2903.4	3082.7	3400.8	2736.0
35°	3910.7	3918.4	3795.7	3568.7	3355.5	3197.0	3093.4	3114.2	3253.0	3574.1	2812.2
37.5°	4381.9	4389.6	4259.1	4048.3	3743.3	3526.5	3376.3	3366.8	3471.1	3818.9	2936.7
40°	4680.9	4702.9	4644.6	4512.3	4221.0	3928.5	3724.8	3692.1	3757.0	4118.6	3110.1
42.5°	4841.7	4851.3	4850.1	4867.3	4694.0	4403.3	4118.0	4052.4	4095.9	4442.0	3285.2
45°	4842.9	4866.7	4930.5	5096.7	5104.4	4923.3	4614.8	4512.3	4472.4	4767.9	3468.1
47.5°	4626.1	4651.7	4826.8	5153.9	5395.1	5436.2	5209.9	5004.3	4836.4	5048.4	3618.2
50°	3969.6	4034.0	4367.6	4946.0	5452.3	5847.2	5777.5	5498.8	5159.8	5265.3	3712.3
52.5°	3399.6	3397.2	3602.7	4358.6	5213.4	6028.3	6326.8	6007.5	5479.7	5402.9	3736.1
55°	2489.4	2503.1	2713.3	3333.5	4576.1	5853.2	6628.8	6475.7	5846.6	5476.1	3726.6
57.5°	1290.8	1358.8	1574.4	2127.2	3477.0	5250.4	6548.4	6650.2	6219.5	5528.0	3739.1
60°	652.3	639.2	716.6	1015.6	2014.6	4100.7	6052.8	6377.4	6286.9	5568.5	3746.9
62.5°	435.4	431.9	410.4	470.6	823.2	2428.6	5159.8	5614.9	5819.2	5473.2	3648.0
65°	377.1	369.9	330.6	328.2	399.7	1007.3	3782.0	4414.0	4809.6	5049.6	3411.5
67.5°	339.5	328.8	288.9	269.2	287.1	442.6	2131.4	2960.6	3551.5	4270.5	2893.2
70°	303.2	297.8	257.9	229.3	227.6	269.8	785.1	1527.9	2173.1	2913.5	2115.3
72.5°	271.6	262.1	228.1	200.7	187.0	191.2	340.7	588.5	1124.7	1817.4	1265.2
75°	235.3	228.1	198.4	171.0	154.3	140.0	207.9	272.2	512.9	863.7	597.5
77.5°	181.7	176.9	156.7	135.8	126.3	104.2	126.3	171.6	237.1	364.0	310.9
80°	105.4	108.4	116.8	106.0	92.9	74.5	82.2	98.9	142.4	197.2	176.3
82.5°	53.0	56.6	75.7	61.4	55.4	43.5	48.8	58.4	74.5	109.0	69.1
85°	4.2	4.2	13.7	15.5	19.1	15.5	19.7	23.8	34.0	43.5	23.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.0	5.4	10.1	6.6
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°	2077.2	2077.2	2077.2	2077.2	2077.2	2077.2	2077.2	2077.2	2077.2	2077.2	2077.2
2.5°	2080.7	2050.3	2014.0	1984.2	1938.4	1913.9	1883.0	1844.8	1829.3	1822.2	1818.0
5°	2084.9	2031.3	1953.8	1882.4	1803.1	1740.6	1670.9	1598.2	1556.5	1546.4	1539.3
7.5°	2100.4	2025.3	1902.0	1784.1	1636.9	1500.5	1367.7	1236.0	1168.7	1143.1	1140.7
10°	2121.8	2022.9	1849.6	1653.6	1405.2	1189.6	1034.1	931.1	887.6	873.3	868.5
12.5°	2148.6	2021.2	1780.5	1472.5	1137.8	934.0	845.3	828.6	834.6	833.4	833.4
15°	2182.6	2023.5	1697.1	1267.6	920.3	810.7	812.5	832.2	850.6	853.6	853.6
17.5°	2219.5	2021.2	1576.2	1062.1	789.9	781.5	808.9	836.3	853.0	855.4	855.4
20°	2259.4	2009.8	1423.7	868.5	732.7	763.1	792.9	814.3	824.4	826.8	826.8
22.5°	2283.3	1977.7	1258.1	735.1	696.4	733.9	753.5	775.6	776.8	757.7	757.1
25°	2279.7	1917.5	1069.3	649.3	657.6	690.4	715.4	699.9	680.9	670.1	668.4
27.5°	2257.1	1827.0	876.8	584.4	611.8	648.7	641.0	627.9	623.1	611.2	610.0
30°	2228.5	1715.6	704.1	533.7	564.1	598.1	586.2	585.0	580.2	567.1	567.1
32.5°	2201.1	1600.6	573.6	496.2	533.7	536.1	552.8	554.0	551.6	529.0	526.6
35°	2193.3	1485.6	485.5	466.4	503.9	502.8	526.6	526.0	484.9	453.3	452.7
37.5°	2216.5	1368.9	433.1	442.0	462.8	478.3	497.4	462.8	449.1	430.1	428.9
40°	2266.0	1261.1	406.3	427.7	436.6	459.3	429.5	431.9	428.3	414.0	412.2
42.5°	2331.5	1169.3	391.4	422.9	421.7	427.7	394.9	404.5	409.8	399.1	397.3
45°	2394.7	1089.5	383.6	405.1	411.0	376.5	369.9	378.9	387.2	383.0	381.2
47.5°	2441.1	1020.4	379.5	380.6	397.3	359.2	348.5	352.6	362.8	364.6	364.0
50°	2455.4	961.4	374.7	360.4	356.8	341.9	333.6	332.4	344.3	352.6	353.8
52.5°	2428.0	909.0	362.2	342.5	325.2	327.6	324.6	318.7	330.6	341.9	343.1
55°	2387.5	879.2	342.5	325.2	305.0	314.5	315.7	310.4	318.1	325.8	325.8
57.5°	2390.5	896.5	323.5	309.2	287.1	299.6	306.2	303.8	303.8	309.8	310.4
60°	2410.1	921.5	310.9	288.9	269.2	282.4	297.2	294.9	289.5	297.2	297.2
62.5°	2353.6	888.2	302.6	269.2	250.2	265.7	283.5	282.4	276.4	288.9	290.1
65°	2186.8	798.8	293.1	244.8	231.1	249.0	264.5	268.7	263.3	280.0	283.0
67.5°	1832.9	671.9	274.6	221.6	212.1	228.7	243.6	249.6	245.4	265.1	267.5
70°	1366.5	543.9	245.4	196.0	188.8	203.7	217.4	219.8	220.4	243.6	246.0
72.5°	871.5	422.9	206.7	167.4	162.0	173.3	183.5	193.0	197.2	219.2	218.6
75°	486.1	314.5	166.2	141.8	132.2	141.2	153.1	164.4	176.3	208.5	212.1
77.5°	280.0	221.0	131.6	113.8	102.5	112.0	122.1	138.2	173.9	201.9	198.4
80°	157.9	143.6	99.5	83.4	76.2	83.4	91.1	121.5	137.0	148.9	150.7
82.5°	73.9	80.4	67.9	51.2	51.2	56.0	63.1	94.1	103.6	84.6	73.9
85°	26.8	36.3	33.4	26.2	23.2	22.6	39.3	53.6	33.4	29.8	25.6
87.5°	7.1	10.1	9.5	6.6	3.6	3.0	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)