

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: P630928

Luminaire Tested: GWS-SA1E-760-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630928  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1E-760-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

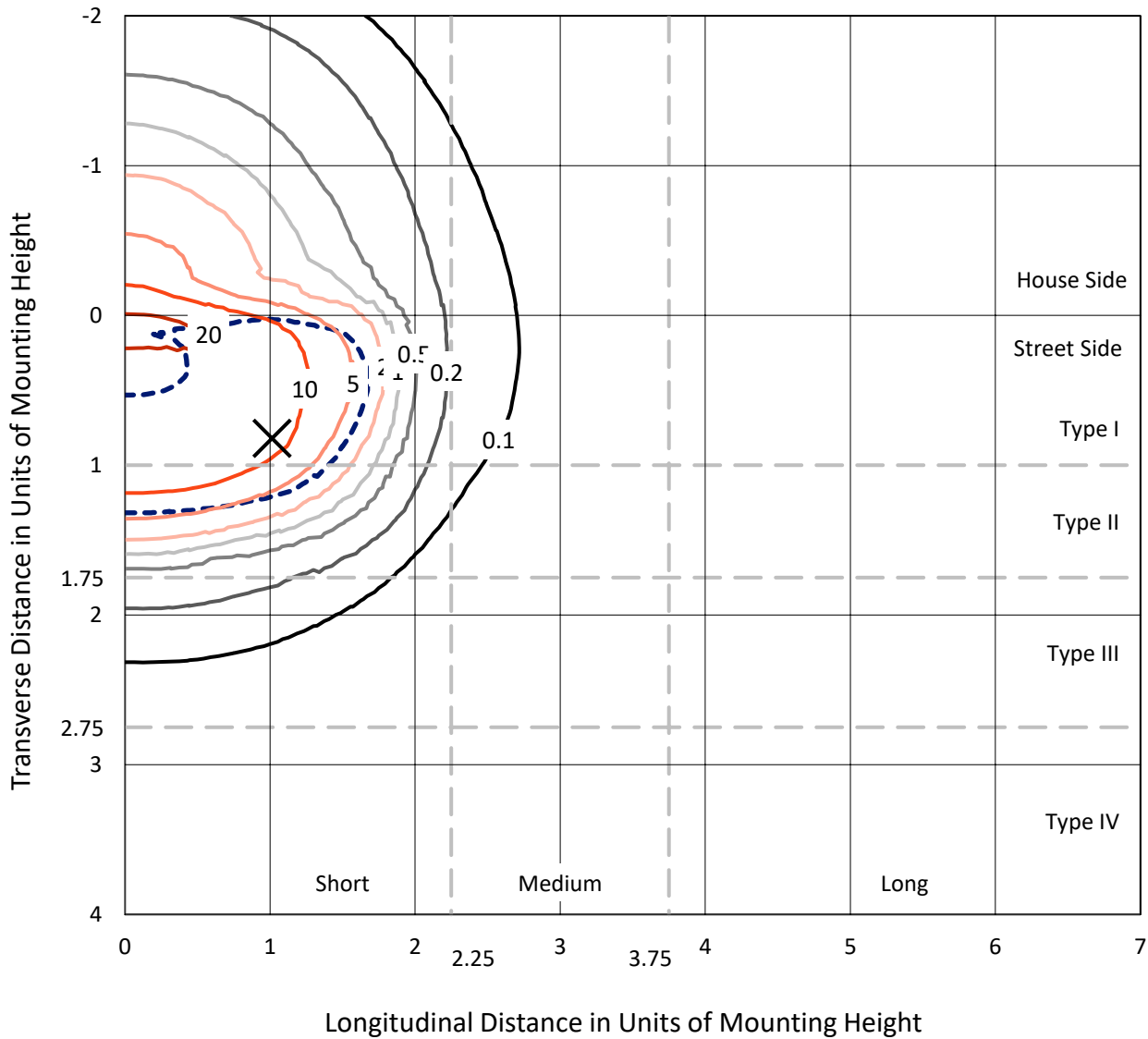
Lumens per Lamp: N/A  
Luminaire Lumens: 6935.6 lumens  
Efficiency: N/A  
Efficacy: 118.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 58.4  
Input Voltage (V): 120  
Input Current (Ain): 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

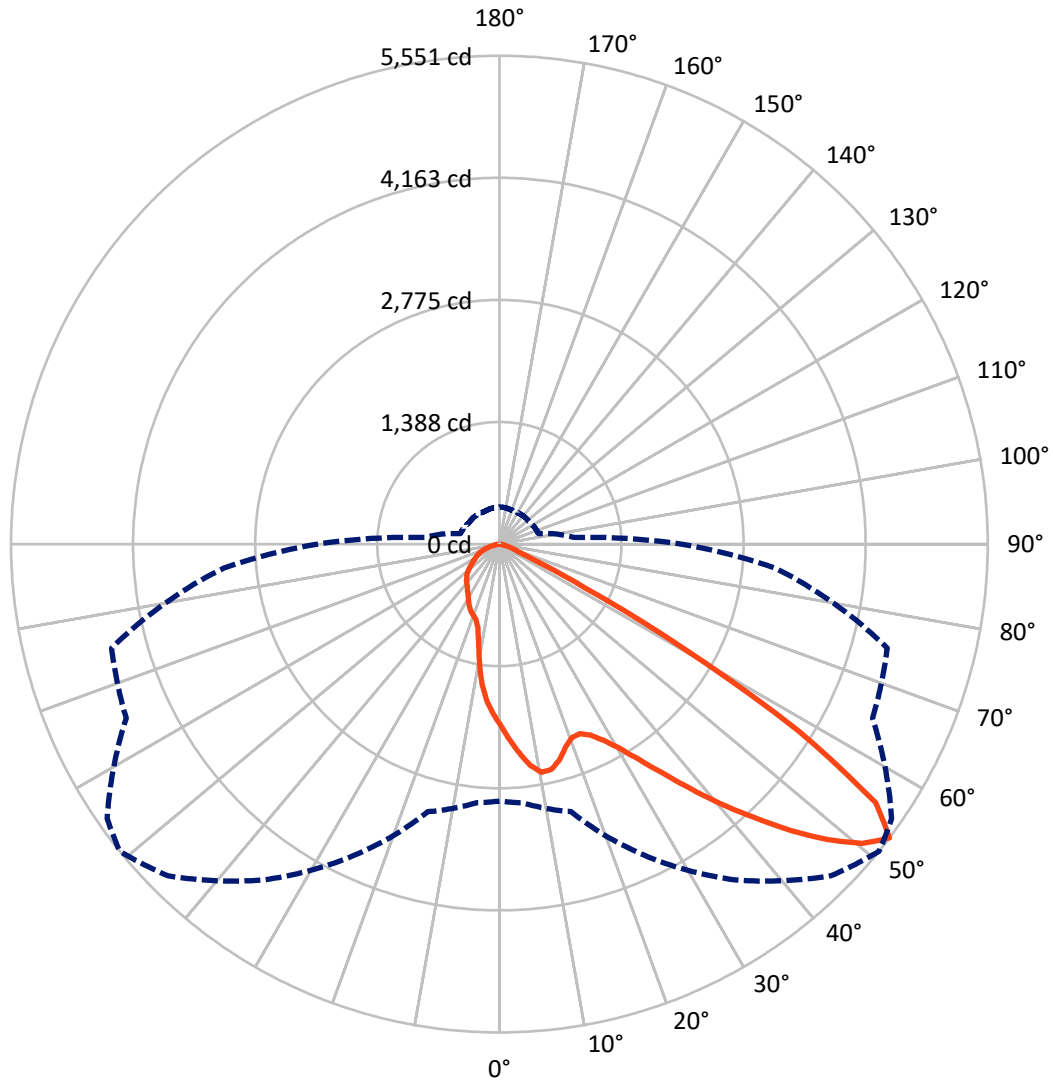
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1351.3	0.0	1351.3
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	5584.3	0.0	5584.3
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	6935.6	0.0	6935.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.7	2.8
10°-20°	500.7	7.2
20°-30°	814.1	11.7
30°-40°	1290.2	18.6
40°-50°	1945.9	28.1
50°-60°	1683.3	24.3
60°-70°	381.6	5.5
70°-80°	112.5	1.6
80°-90°	14.5	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°	6935.6	100.0
0°-180°	6935.6	100.0

**Coefficient of Utilization**



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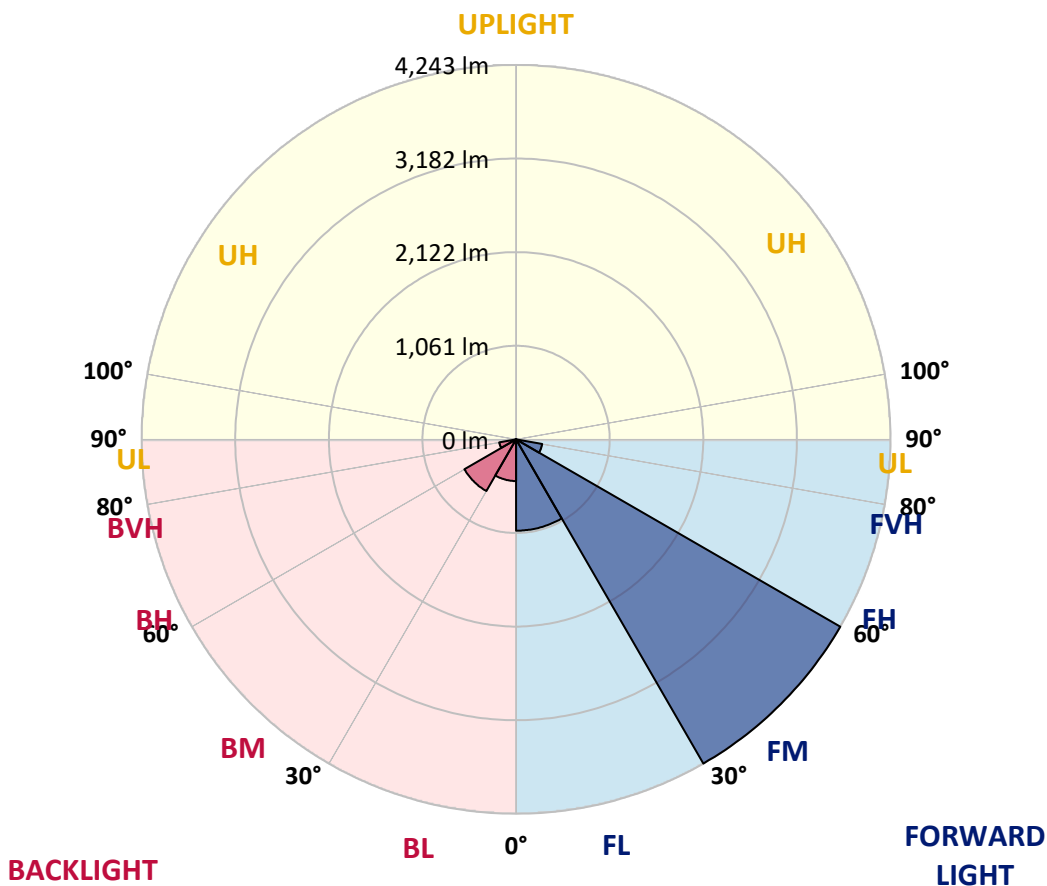
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1035.2	14.9			
FM (30°-60°)	4243.3	61.2			
FH (60°-80°)	300.3	4.3			G0/660
FVH (80°-90°)	5.5	0.1			G0/10
BL (0°-30°)	472.4	6.8	B1/500		
BM (30°-60°)	676.1	9.7	B1/1000		
BH (60°-80°)	193.8	2.8	B1/500		G1/500
BVH (80°-90°)	9.0	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	2065.1	2065.1	2065.1	2065.1	2065.1	2065.1	2065.1	2065.1	2065.1	2065.1	2065.1
2.5°	2301.3	2314.4	2294.2	2286.5	2273.9	2252.0	2226.8	2219.6	2165.4	2129.7	2089.7
5°	2532.6	2539.7	2523.2	2506.8	2475.6	2436.7	2387.9	2377.5	2278.8	2197.2	2112.2
7.5°	2584.1	2581.3	2595.6	2604.9	2601.1	2585.7	2542.4	2522.2	2404.3	2275.0	2149.5
10°	2380.2	2364.9	2417.5	2480.0	2555.0	2641.6	2636.7	2635.1	2532.6	2379.7	2197.2
12.5°	2110.0	2102.3	2145.1	2223.5	2365.4	2557.2	2629.0	2684.9	2648.2	2479.4	2250.3
15°	1955.5	1952.7	1981.8	2038.2	2151.1	2393.4	2546.8	2657.5	2747.4	2586.3	2306.8
17.5°	1927.5	1929.2	1939.0	1971.4	2052.5	2252.0	2429.5	2584.1	2824.7	2703.6	2377.5
20°	2009.2	2020.1	2003.1	2008.1	2051.9	2201.0	2349.5	2510.1	2874.0	2821.4	2453.6
22.5°	2190.6	2186.7	2149.5	2127.6	2128.1	2232.2	2340.7	2475.6	2906.3	2935.9	2522.7
25°	2396.1	2391.7	2347.3	2298.5	2267.9	2317.2	2403.8	2512.3	2935.4	3040.6	2578.1
27.5°	2638.9	2625.2	2575.9	2513.4	2445.4	2466.8	2525.4	2611.5	2980.3	3143.6	2614.8
30°	2874.0	2889.9	2819.2	2745.2	2673.4	2660.3	2694.2	2772.1	3071.9	3264.2	2658.6
32.5°	3185.8	3180.4	3102.0	3005.5	2903.1	2893.2	2920.0	2991.3	3236.3	3430.8	2725.5
35°	3563.5	3564.6	3453.3	3322.9	3177.1	3150.8	3195.7	3264.8	3481.3	3656.6	2831.3
37.5°	3955.9	3954.2	3857.2	3709.2	3510.3	3473.0	3524.5	3576.1	3787.6	3964.1	2995.7
40°	4231.0	4242.0	4196.5	4118.6	3930.1	3839.1	3884.6	3920.2	4120.8	4325.8	3212.2
42.5°	4387.2	4403.6	4413.5	4460.1	4360.9	4263.9	4247.4	4266.1	4418.4	4661.8	3415.5
45°	4420.6	4442.5	4514.3	4687.0	4725.3	4697.9	4644.2	4599.3	4640.4	4900.2	3548.7
47.5°	4273.2	4311.6	4465.0	4767.0	4991.1	5077.2	5017.5	4948.9	4768.6	4961.5	3535.0
50°	3689.0	3733.9	4079.7	4603.7	5029.0	5342.4	5347.9	5246.5	4753.3	4784.5	3362.9
52.5°	2920.6	2951.3	3149.1	3902.7	4657.9	5331.5	5550.7	5442.2	4679.3	4563.1	3147.5
55°	1745.6	1794.9	1979.6	2574.8	3628.7	4725.3	5192.3	5244.9	4643.1	4377.3	3000.6
57.5°	589.2	613.3	789.7	1137.2	2138.5	3459.9	4011.8	4225.5	4215.1	4093.4	2714.0
60°	280.6	286.1	321.7	431.3	856.1	1808.0	2374.7	2621.4	2846.1	2868.5	1688.6
62.5°	213.7	217.0	235.1	258.7	344.2	761.8	1088.4	1277.0	1364.1	1170.6	614.9
65°	178.7	181.4	195.1	209.9	234.0	329.9	417.6	481.7	434.1	338.2	293.2
67.5°	149.1	151.3	161.7	177.6	194.0	220.9	231.8	238.4	249.9	280.6	269.6
70°	116.7	118.9	129.9	143.6	159.5	166.1	176.5	183.1	206.1	245.5	244.4
72.5°	89.9	92.6	98.7	107.4	120.6	127.1	138.7	146.3	159.5	191.3	204.4
75°	65.8	67.4	72.9	75.6	77.3	75.6	87.1	95.9	113.4	125.5	128.8
77.5°	26.9	30.1	29.0	29.0	34.5	41.7	47.7	53.2	65.2	72.3	72.9
80°	11.0	12.1	14.2	15.9	19.2	24.7	28.5	30.7	36.2	40.6	43.8
82.5°	6.6	7.1	8.2	8.8	11.0	14.2	16.4	18.1	22.5	26.9	28.5
85°	3.3	3.3	3.8	4.4	5.5	6.6	7.7	8.8	11.5	14.2	15.9
87.5°	0.5	0.5	0.5	1.1	1.6	2.2	2.7	3.3	3.8	4.4	5.5
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°	2065.1	2065.1	2065.1	2065.1	2065.1	2065.1	2065.1	2065.1	2065.1	2065.1	2065.1
2.5°	2066.2	2036.6	2002.0	1974.6	1942.9	1919.3	1885.9	1865.0	1845.3	1828.9	1816.8
5°	2068.4	2018.5	1946.7	1883.1	1817.4	1754.9	1690.8	1638.7	1592.1	1553.2	1549.9
7.5°	2081.0	2009.2	1896.8	1785.6	1657.3	1533.5	1409.6	1308.8	1232.0	1192.0	1183.8
10°	2102.3	2008.1	1845.9	1668.3	1449.6	1250.1	1103.2	1026.5	982.1	966.2	960.7
12.5°	2124.8	2005.3	1780.6	1502.8	1199.1	1024.3	943.8	934.4	942.7	943.8	943.2
15°	2152.2	2003.7	1698.4	1308.8	1016.1	919.6	925.1	944.8	964.0	968.4	968.4
17.5°	2185.6	1999.9	1586.6	1119.1	901.6	899.4	928.4	954.7	972.8	976.1	976.1
20°	2220.7	1990.0	1449.1	964.6	855.0	886.8	918.0	938.3	950.9	955.3	955.8
22.5°	2244.8	1963.7	1290.7	850.0	825.9	862.6	885.1	905.9	905.9	895.0	891.7
25°	2249.8	1907.2	1119.1	771.7	791.4	825.4	848.4	836.3	813.9	805.1	804.5
27.5°	2231.7	1825.0	949.8	715.8	749.7	783.7	779.9	762.3	752.5	743.7	747.0
30°	2209.8	1726.4	802.9	669.7	701.5	734.9	721.8	715.8	708.6	698.8	701.0
32.5°	2195.0	1616.2	690.0	634.1	669.2	674.7	684.0	683.4	676.8	658.2	657.1
35°	2199.3	1505.0	614.4	605.1	642.3	640.1	657.7	654.4	608.9	583.1	581.5
37.5°	2234.4	1398.1	570.0	582.0	599.6	613.3	628.6	589.2	573.3	556.8	557.9
40°	2301.3	1298.9	545.9	569.4	573.8	594.1	558.5	557.9	550.8	536.0	535.5
42.5°	2376.9	1215.0	529.4	563.4	557.4	561.2	523.4	527.8	527.2	517.9	515.2
45°	2423.0	1137.8	516.3	540.9	542.6	504.2	492.7	497.6	500.4	495.4	494.9
47.5°	2375.3	1049.0	502.6	506.4	520.7	478.5	464.2	464.8	469.7	470.2	468.0
50°	2241.5	949.8	486.1	476.8	467.5	451.6	438.4	435.7	440.6	445.6	447.2
52.5°	2068.9	855.0	458.7	444.5	422.6	422.6	416.5	407.8	414.3	420.9	423.1
55°	1942.3	784.8	419.8	403.9	379.8	388.0	386.9	379.3	388.0	393.0	394.6
57.5°	1683.1	630.8	369.4	364.5	344.2	354.0	356.2	346.4	342.0	343.1	344.7
60°	999.1	407.2	333.2	332.7	314.6	326.1	332.7	322.8	309.7	311.3	313.5
62.5°	448.3	311.3	287.7	285.5	285.0	299.8	306.9	297.6	279.0	280.6	282.8
65°	282.2	269.1	249.9	249.9	258.7	271.3	276.8	269.1	247.7	245.0	247.2
67.5°	262.0	250.5	230.7	226.9	231.3	241.7	242.2	227.4	214.8	212.6	212.6
70°	235.1	226.3	207.2	199.5	197.8	197.3	195.7	191.8	183.6	181.4	182.5
72.5°	194.6	188.5	176.5	168.3	163.9	163.3	156.7	153.5	146.3	145.2	144.7
75°	128.8	130.4	130.4	129.3	125.5	123.9	116.7	113.4	105.2	101.9	101.4
77.5°	76.2	77.8	80.0	80.6	80.0	80.0	73.4	69.6	61.4	57.0	55.9
80°	46.6	47.7	48.8	50.4	48.2	46.6	40.6	36.7	32.9	30.1	29.6
82.5°	30.1	31.2	31.8	32.9	31.8	29.6	24.7	22.5	19.7	17.5	17.0
85°	17.0	17.5	18.6	18.6	17.0	15.3	12.6	11.0	9.3	8.2	8.2
87.5°	6.0	6.0	6.0	6.6	5.5	4.9	3.3	2.2	1.6	1.6	1.6
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)