

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: P637341

Luminaire Tested: GWS-SA4C-750-U-T3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637341  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-750-U-T3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

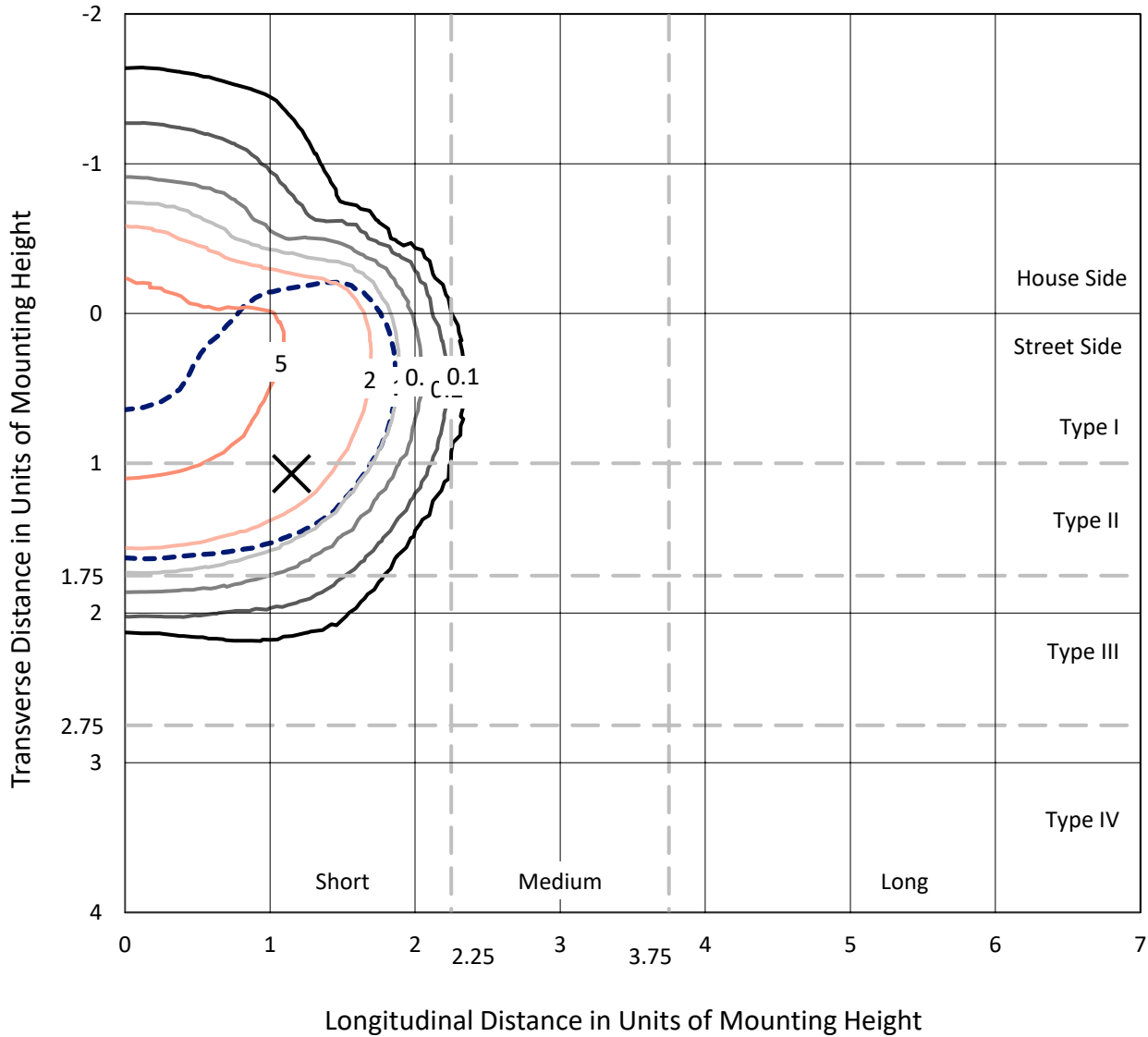
Lumens per Lamp: N/A  
Luminaire Lumens: 12261.6 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

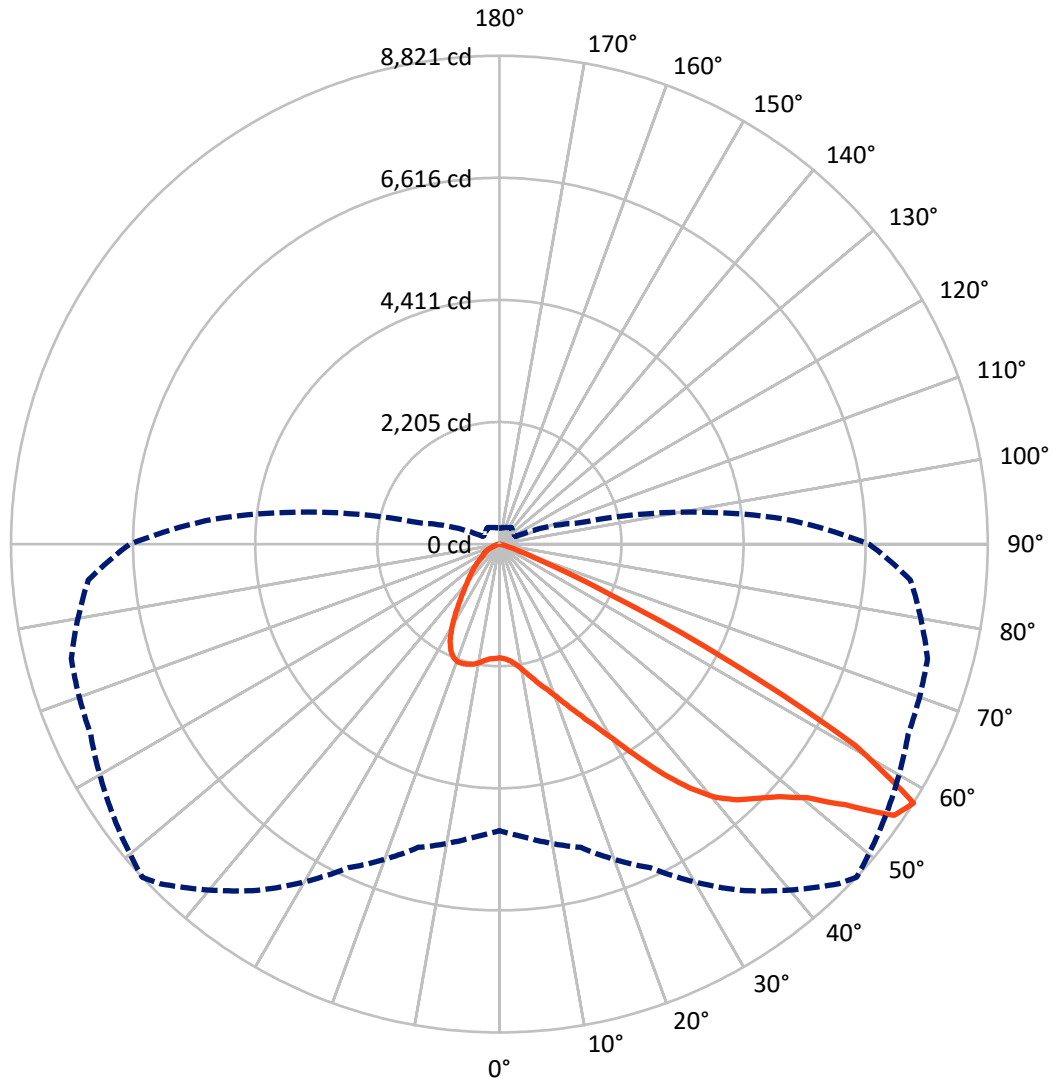
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2660.1	0.0	2660.1
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	9601.4	0.0	9601.4
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	12261.6	0.0	12261.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.2	1.7
10°-20°	689.0	5.6
20°-30°	1279.4	10.4
30°-40°	2048.1	16.7
40°-50°	2993.8	24.4
50°-60°	3694.9	30.1
60°-70°	1234.6	10.1
70°-80°	115.0	0.9
80°-90°	2.4	0.0
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°	12261.6	100.0
0°-180°	12261.6	100.0

**Coefficient of Utilization**



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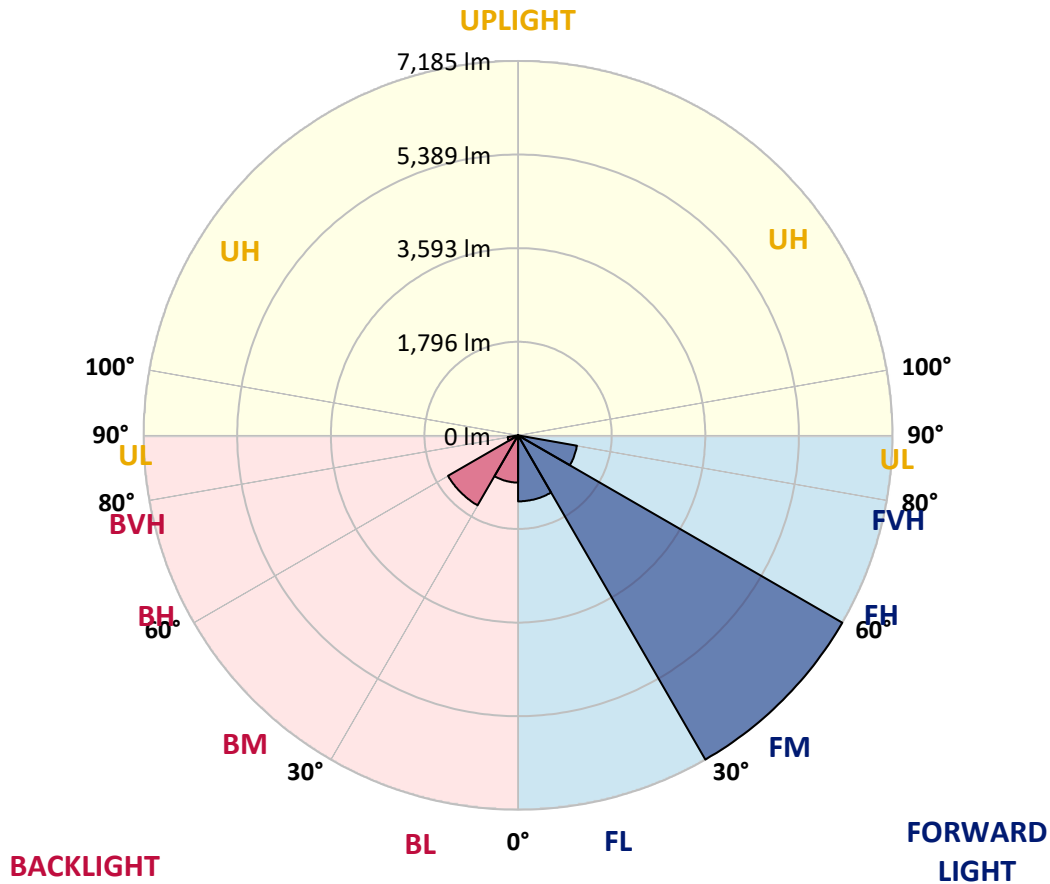
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1267.2	10.3			
FM (30°-60°)	7185.2	58.6			
FH (60°-80°)	1147.4	9.4			G1/1800
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	905.5	7.4	B2/1000		
BM (30°-60°)	1551.7	12.7	B2/2500		
BH (60°-80°)	202.2	1.6	B1/500		G1/500
BVH (80°-90°)	0.7	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2052.6	2052.6	2052.6	2052.6	2052.6	2052.6	2052.6	2052.6	2052.6	2052.6	2052.6
2.5°	2074.0	2072.5	2071.1	2079.7	2076.8	2075.4	2078.2	2078.2	2078.2	2069.7	2052.6
5°	2123.8	2123.8	2122.4	2130.9	2123.8	2119.5	2120.9	2120.9	2115.2	2099.6	2078.2
7.5°	2202.1	2199.2	2196.4	2204.9	2197.8	2196.4	2199.2	2190.7	2180.7	2155.1	2125.2
10°	2314.5	2314.5	2310.2	2318.8	2313.1	2310.2	2310.2	2304.6	2286.0	2246.2	2202.1
12.5°	2469.7	2462.6	2452.6	2445.5	2442.6	2441.2	2442.6	2434.1	2414.2	2362.9	2301.7
15°	2639.1	2633.4	2617.7	2606.3	2590.7	2587.8	2596.4	2589.2	2569.3	2499.6	2412.7
17.5°	2852.6	2859.7	2819.8	2795.6	2750.1	2747.2	2750.1	2761.5	2747.2	2657.6	2530.9
20°	3034.8	3040.5	3010.6	2993.5	2952.2	2933.7	2939.4	2957.9	2942.3	2836.9	2660.4
22.5°	3229.8	3236.9	3205.6	3170.0	3151.5	3151.5	3172.9	3198.5	3177.1	3039.1	2808.5
25°	3463.2	3468.9	3443.3	3396.3	3363.6	3404.9	3436.2	3504.5	3468.9	3281.0	2983.5
27.5°	3730.8	3732.3	3695.3	3646.9	3629.8	3706.6	3738.0	3843.3	3829.1	3552.9	3168.6
30°	4017.0	4018.4	4009.8	3977.1	3961.4	4062.5	4105.2	4257.5	4247.6	3890.3	3420.5
32.5°	4314.5	4314.5	4330.1	4327.3	4345.8	4510.9	4579.2	4752.9	4742.9	4303.1	3733.7
35°	4613.4	4614.8	4641.8	4710.2	4787.0	5006.2	5095.9	5306.6	5283.8	4797.0	4133.7
37.5°	4953.6	4939.3	4976.4	5078.8	5249.7	5503.0	5588.4	5789.1	5763.5	5302.3	4656.1
40°	5363.5	5337.9	5337.9	5457.5	5651.1	5942.9	6015.5	6115.1	6028.3	5710.9	5168.5
42.5°	5816.2	5792.0	5760.7	5866.0	6028.3	6256.0	6315.8	6288.8	6217.6	6096.6	5752.1
45°	6274.5	6237.5	6258.9	6322.9	6416.9	6525.1	6547.8	6422.6	6389.8	6424.0	6234.7
47.5°	6623.3	6597.7	6650.3	6740.0	6816.9	6832.5	6816.9	6643.2	6640.4	6761.4	6569.2
50°	6740.0	6742.9	6888.0	7084.5	7208.3	7221.1	7199.8	7000.5	6973.4	7009.0	6750.0
52.5°	6751.4	6762.8	6974.9	7349.2	7686.6	7840.3	7823.2	7608.3	7343.5	7305.1	7023.3
55°	6476.7	6543.6	6839.6	7386.2	8103.7	8594.7	8651.7	8240.3	7847.4	7814.7	7611.2
57.5°	5177.1	5313.7	5671.0	6449.6	7638.2	8673.0	8821.1	8525.0	8144.9	8005.4	7453.1
60°	3094.6	3264.0	3607.0	4562.1	5813.3	7128.6	7383.4	7424.7	7249.6	6846.8	5718.0
62.5°	1328.1	1313.8	1736.6	2468.3	3457.5	4530.8	4646.1	4825.5	4977.8	4556.4	3470.4
65°	455.5	495.4	688.9	1113.1	1730.9	2103.8	2206.3	2367.2	2583.5	2132.3	1271.1
67.5°	281.8	298.9	397.1	657.6	933.8	919.5	874.0	848.4	825.6	565.1	348.7
70°	205.0	219.2	279.0	452.7	627.7	441.3	382.9	310.3	344.5	317.4	247.7
72.5°	138.1	149.5	192.2	274.7	321.7	214.9	199.3	226.3	273.3	260.5	202.1
75°	82.6	89.7	109.6	133.8	131.0	111.0	112.5	159.4	209.2	195.0	143.8
77.5°	56.9	59.8	72.6	86.8	64.1	34.2	31.3	44.1	71.2	71.2	48.4
80°	14.2	18.5	18.5	11.4	10.0	8.5	8.5	12.8	19.9	14.2	7.1
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8	2.8
85°	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8
87.5°	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8
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°	2052.6	2052.6	2052.6	2052.6	2052.6	2052.6	2052.6	2052.6	2052.6	2052.6	2052.6
2.5°	2062.6	2045.5	2056.9	2054.0	2062.6	2065.4	2052.6	2049.8	2051.2	2034.1	2028.4
5°	2082.5	2062.6	2068.3	2062.6	2072.5	2081.1	2076.8	2082.5	2089.6	2076.8	2071.1
7.5°	2125.2	2105.3	2103.8	2095.3	2109.5	2115.2	2113.8	2129.5	2143.7	2135.2	2126.6
10°	2199.2	2172.2	2169.3	2162.2	2166.5	2170.8	2155.1	2157.9	2170.8	2160.8	2156.5
12.5°	2290.3	2257.6	2250.5	2233.4	2233.4	2212.0	2177.9	2170.8	2180.7	2173.6	2166.5
15°	2388.5	2344.4	2333.0	2303.1	2274.7	2234.8	2199.2	2190.7	2197.8	2189.3	2183.6
17.5°	2498.1	2448.3	2411.3	2358.6	2296.0	2249.0	2209.2	2190.7	2179.3	2162.2	2160.8
20°	2606.3	2540.8	2478.2	2394.2	2311.7	2240.5	2175.0	2126.6	2085.3	2059.7	2049.8
22.5°	2731.6	2634.8	2533.7	2415.6	2297.4	2189.3	2074.0	1991.4	1920.2	1896.0	1884.6
25°	2865.4	2740.1	2589.2	2435.5	2249.0	2075.4	1918.8	1796.4	1702.4	1671.1	1658.3
27.5°	3013.4	2841.2	2646.2	2431.2	2149.4	1913.1	1705.3	1553.0	1460.5	1432.0	1441.9
30°	3201.3	2972.1	2717.4	2387.1	1999.9	1685.4	1441.9	1313.8	1244.1	1217.0	1218.5
32.5°	3451.8	3160.0	2821.3	2293.2	1807.8	1426.3	1212.8	1118.8	1071.9	1036.3	1033.4
35°	3810.6	3446.2	2918.1	2142.3	1574.3	1195.7	1040.5	966.5	901.0	859.8	866.9
37.5°	4240.4	3806.3	2970.7	1938.7	1312.4	1016.3	911.0	835.6	761.5	700.3	707.5
40°	4750.0	4277.4	2966.5	1671.1	1073.3	893.9	802.8	714.6	622.0	566.5	572.2
42.5°	5318.0	4723.0	2873.9	1387.9	889.7	794.3	698.9	587.9	498.2	464.0	465.5
45°	5810.5	5084.5	2711.7	1094.6	748.7	697.5	590.7	476.9	437.0	412.8	411.4
47.5°	6174.9	5349.3	2479.6	861.2	634.9	609.2	485.4	427.0	395.7	375.8	372.9
50°	6378.4	5441.8	2223.4	674.7	536.6	516.7	434.2	387.2	365.8	353.0	350.2
52.5°	6651.7	5552.9	2039.8	532.4	449.8	422.8	400.0	360.1	345.9	335.9	331.7
55°	7084.5	5767.8	1880.4	422.8	374.4	368.7	377.2	344.5	335.9	320.3	314.6
57.5°	6677.4	5181.3	1460.5	327.4	316.0	337.4	364.4	328.8	307.5	293.2	287.5
60°	4698.8	3444.7	734.5	263.3	281.8	316.0	343.0	297.5	276.1	279.0	276.1
62.5°	2590.7	1723.8	330.2	220.6	244.8	279.0	293.2	257.6	243.4	267.6	271.9
65°	846.9	586.5	190.7	170.8	193.6	227.8	253.4	244.8	242.0	270.5	279.0
67.5°	260.5	193.6	129.5	122.4	133.8	168.0	213.5	264.8	284.7	293.2	297.5
70°	195.0	152.3	111.0	103.9	109.6	128.1	180.8	220.6	207.8	209.2	206.4
72.5°	156.6	121.0	95.4	91.1	91.1	88.3	95.4	119.6	135.2	142.3	142.3
75°	109.6	85.4	72.6	66.9	52.7	42.7	38.4	38.4	34.2	32.7	31.3
77.5°	37.0	31.3	28.5	22.8	15.7	12.8	11.4	10.0	7.1	4.3	2.8
80°	5.7	4.3	2.8	2.8	2.8	1.4	1.4	1.4	0.0	0.0	0.0
82.5°	2.8	2.8	2.8	2.8	2.8	1.4	1.4	0.0	0.0	0.0	0.0
85°	2.8	2.8	2.8	2.8	2.8	1.4	1.4	0.0	0.0	0.0	0.0
87.5°	2.8	2.8	2.8	2.8	1.4	1.4	1.4	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)