

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: P633880

Luminaire Tested: GWS-SA2F-750-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633880  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2F-750-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

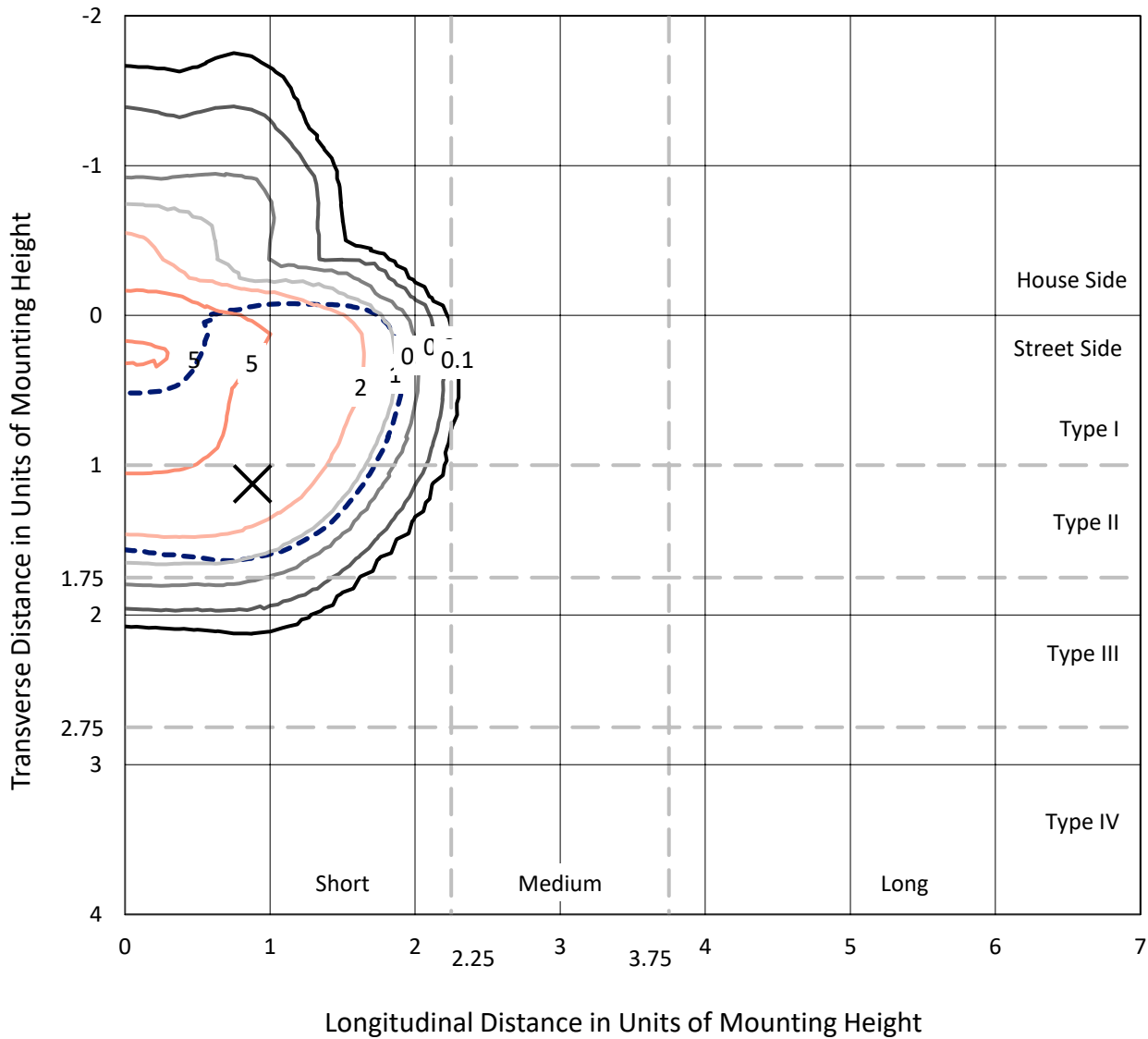
Lumens per Lamp: N/A  
Luminaire Lumens: 10407.8 lumens  
Efficiency: N/A  
Efficacy: 83.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): 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

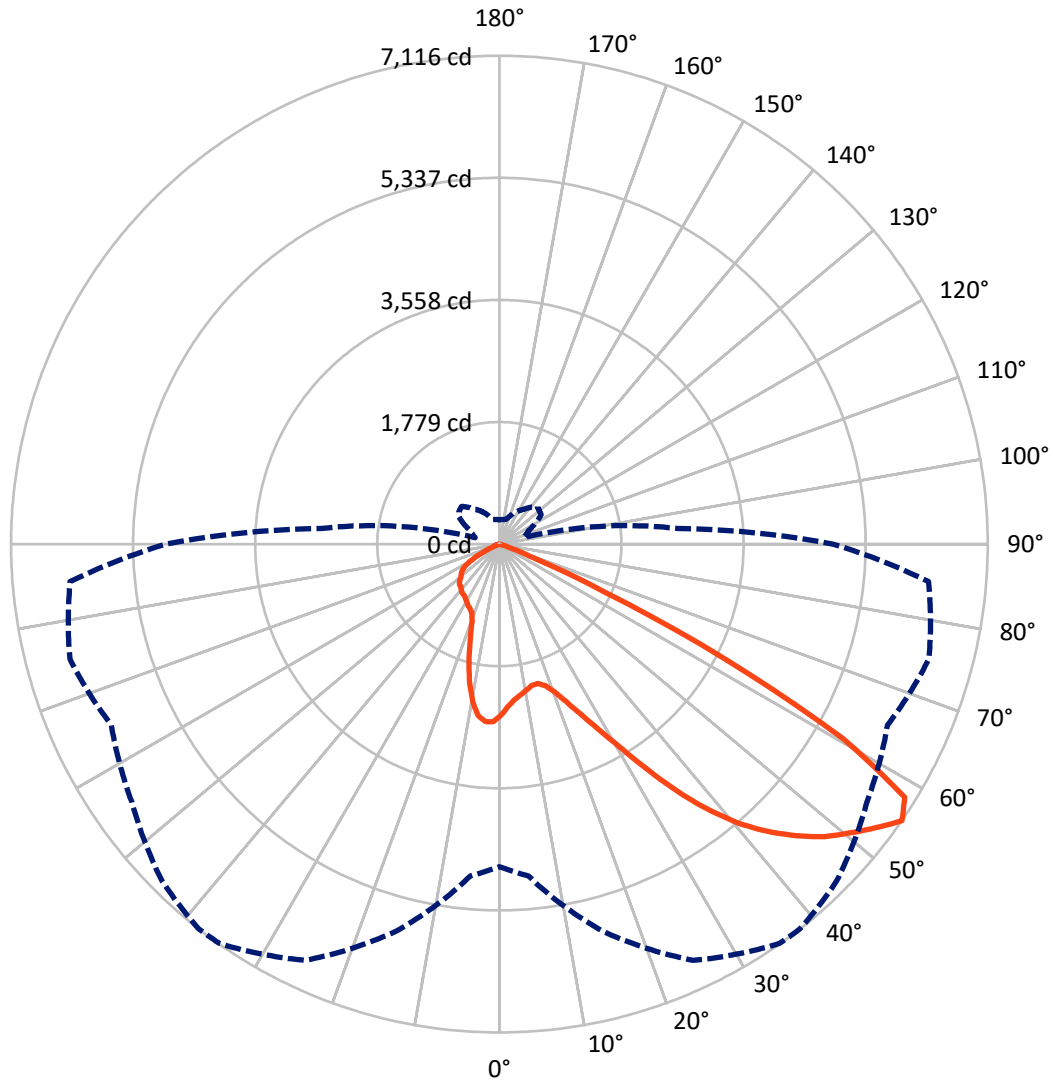
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2027.8	0.0	2027.8
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	8380.1	0.0	8380.1
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	10407.8	0.0	10407.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.8	2.2
10°-20°	621.3	6.0
20°-30°	1066.1	10.2
30°-40°	1768.3	17.0
40°-50°	2599.5	25.0
50°-60°	3037.5	29.2
60°-70°	1029.6	9.9
70°-80°	52.6	0.5
80°-90°	2.1	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°	10407.8	100.0
0°-180°	10407.8	100.0

**Coefficient of Utilization**



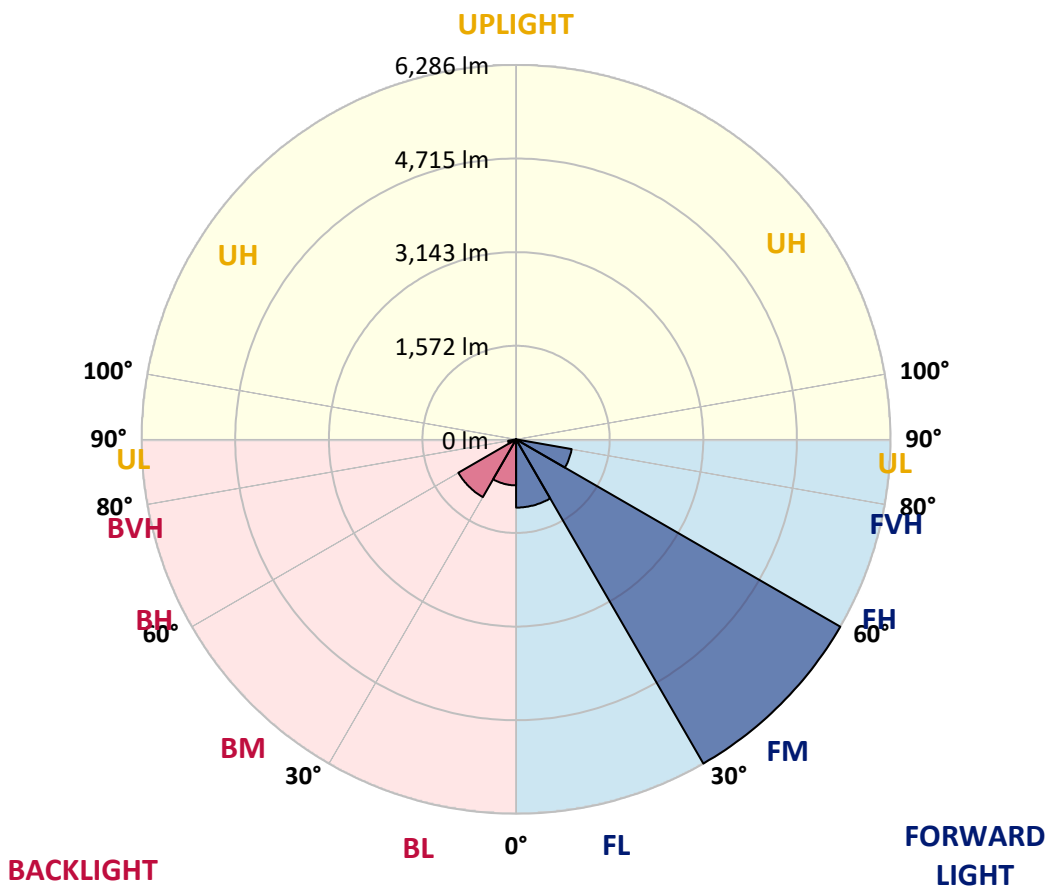
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1145.6	11.0			
FM (30°-60°)	6286.0	60.4			
FH (60°-80°)	947.3	9.1			G1/1800
FVH (80°-90°)	1.1	0.0			G0/10
BL (0°-30°)	772.6	7.4	B2/1000		
BM (30°-60°)	1119.2	10.8	B2/2500		
BH (60°-80°)	135.0	1.3	B1/500		G1/500
BVH (80°-90°)	1.0	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°	38°	45°	55°	65°	75°	85°
0°	2495.9	2495.9	2495.9	2495.9	2495.9	2495.9	2495.9	2495.9	2495.9	2495.9	2495.9
2.5°	2324.6	2319.8	2329.3	2348.4	2366.2	2372.1	2390.0	2415.0	2430.4	2467.3	2497.1
5°	2219.9	2217.5	2227.0	2243.7	2267.5	2275.8	2303.1	2344.8	2386.4	2450.7	2513.7
7.5°	2124.7	2123.5	2137.8	2174.7	2209.2	2219.9	2253.2	2304.3	2360.3	2459.0	2551.8
10°	1999.8	2001.0	2028.3	2080.7	2143.7	2165.1	2218.7	2292.4	2365.0	2492.3	2620.8
12.5°	1959.3	1961.7	1976.0	2016.4	2085.4	2112.8	2187.8	2299.6	2392.4	2539.9	2710.0
15°	2058.1	2058.1	2046.2	2050.9	2081.9	2106.9	2185.4	2323.4	2438.8	2597.0	2798.0
17.5°	2249.6	2242.5	2212.7	2172.3	2161.6	2169.9	2233.0	2374.5	2504.2	2663.6	2898.0
20°	2509.0	2511.3	2453.0	2368.6	2300.8	2299.6	2337.6	2464.9	2598.2	2743.3	3006.2
22.5°	2823.0	2813.5	2736.2	2620.8	2503.0	2493.5	2509.0	2602.9	2733.8	2869.4	3139.5
25°	3187.1	3182.3	3072.8	2918.2	2762.4	2739.7	2739.7	2832.5	2927.7	3049.1	3298.9
27.5°	3567.7	3567.7	3461.9	3283.4	3076.4	3036.0	3030.0	3139.5	3202.5	3226.3	3433.3
30°	3959.1	3954.4	3849.7	3666.5	3445.2	3403.6	3386.9	3467.8	3513.0	3441.6	3601.0
32.5°	4356.5	4364.8	4258.9	4088.8	3891.3	3864.0	3812.8	3812.8	3849.7	3749.8	3865.1
35°	4783.6	4781.2	4697.9	4582.5	4413.6	4382.6	4298.2	4166.1	4222.0	4178.0	4230.4
37.5°	5160.7	5178.5	5138.1	5052.4	4915.6	4884.7	4745.5	4506.4	4549.2	4618.2	4664.6
40°	5543.7	5558.0	5598.5	5571.1	5398.6	5341.5	5094.0	4701.5	4749.1	4985.8	5119.0
42.5°	5919.7	5926.8	6008.9	6054.1	5823.3	5723.4	5358.2	4820.4	4870.4	5273.7	5506.9
45°	6158.8	6174.2	6309.9	6447.9	6198.0	6061.2	5587.8	4972.7	4994.1	5473.5	5793.6
47.5°	6149.3	6185.0	6439.5	6690.5	6520.4	6372.9	5863.7	5216.6	5180.9	5661.5	5982.7
50°	5957.7	6000.6	6365.8	6764.3	6752.4	6615.6	6170.7	5569.9	5458.1	5828.1	6006.5
52.5°	5560.4	5684.1	6236.1	6773.8	6939.2	6870.2	6550.2	6045.8	5832.8	6067.2	6044.6
55°	4701.5	4853.7	5842.3	6692.9	7108.1	7116.4	6948.7	6541.8	6239.7	6478.8	6278.9
57.5°	3568.9	3690.3	4496.8	5957.7	6828.5	6965.4	7103.4	6803.6	6490.7	6759.5	6333.7
60°	2150.9	2291.3	2815.9	4371.9	5515.2	5748.4	6289.6	6231.3	5854.2	5969.6	5194.0
62.5°	872.0	945.8	1300.3	2409.0	3471.4	3689.1	4207.8	4295.8	4203.0	4085.2	3150.2
65°	318.8	348.6	521.1	995.7	1596.5	1676.2	1949.8	2105.7	2234.1	1902.2	1171.8
67.5°	197.5	216.5	339.0	511.5	580.5	540.1	549.6	655.5	625.8	386.6	209.4
70°	146.3	161.8	265.3	354.5	234.4	180.8	122.5	130.9	117.8	103.5	102.3
72.5°	101.1	115.4	198.7	209.4	90.4	64.2	45.2	63.1	71.4	70.2	72.6
75°	66.6	77.3	124.9	82.1	22.6	17.8	15.5	33.3	42.8	42.8	44.0
77.5°	39.3	45.2	44.0	16.7	4.8	4.8	3.6	5.9	9.5	10.7	13.1
80°	4.8	3.6	2.4	2.4	2.4	2.4	2.4	2.4	3.6	3.6	3.6
82.5°	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4	2.4	3.6	3.6
85°	0.0	0.0	1.2	1.2	2.4	2.4	2.4	2.4	2.4	3.6	3.6
87.5°	0.0	0.0	1.2	1.2	2.4	2.4	2.4	2.4	2.4	3.6	3.6
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°	2495.9	2495.9	2495.9	2495.9	2495.9	2495.9	2495.9	2495.9	2495.9	2495.9	2495.9
2.5°	2519.7	2511.3	2545.8	2570.8	2591.0	2600.6	2587.5	2586.3	2586.3	2560.1	2553.0
5°	2549.4	2553.0	2601.7	2623.2	2626.7	2614.8	2585.1	2564.9	2553.0	2525.6	2510.1
7.5°	2606.5	2618.4	2664.8	2661.2	2629.1	2574.4	2495.9	2435.2	2395.9	2353.1	2326.9
10°	2688.6	2711.2	2739.7	2689.8	2587.5	2448.3	2286.5	2171.1	2102.1	2053.3	2023.6
12.5°	2788.5	2811.1	2801.6	2683.8	2470.9	2222.3	2014.1	1847.5	1767.8	1723.8	1692.9
15°	2889.6	2903.9	2842.1	2612.5	2265.1	1930.8	1698.8	1533.4	1435.9	1400.2	1374.0
17.5°	2993.1	2989.6	2849.2	2472.1	1990.3	1602.4	1374.0	1261.0	1233.7	1227.7	1225.3
20°	3101.4	3069.3	2820.6	2271.0	1659.6	1277.7	1148.0	1155.1	1205.1	1228.9	1233.7
22.5°	3225.1	3144.2	2749.3	1998.6	1321.7	1064.7	1077.8	1148.0	1215.8	1247.9	1252.7
25°	3357.2	3213.2	2630.3	1648.8	1042.1	979.1	1056.4	1137.3	1209.9	1249.1	1253.9
27.5°	3444.0	3229.9	2435.2	1296.7	894.6	945.8	1027.9	1105.2	1180.1	1223.0	1228.9
30°	3538.0	3222.7	2169.9	999.3	844.6	917.2	988.6	1058.8	1127.8	1175.4	1180.1
32.5°	3676.0	3218.0	1846.3	811.3	824.4	894.6	947.0	1005.2	1052.8	1080.2	1076.6
35°	3856.8	3212.0	1469.2	731.6	812.5	876.8	918.4	945.8	893.4	876.8	880.3
37.5°	4088.8	3226.3	1151.6	698.3	809.0	872.0	907.7	829.2	748.3	717.4	712.6
40°	4345.8	3263.2	878.0	685.2	820.9	883.9	867.2	737.6	637.6	577.0	563.9
42.5°	4603.9	3303.6	694.8	680.5	841.1	917.2	800.6	671.0	521.1	486.6	481.8
45°	4795.4	3296.5	600.8	672.1	858.9	936.2	782.8	575.8	465.2	449.7	450.9
47.5°	4891.8	3218.0	549.6	653.1	866.1	917.2	738.8	536.5	427.1	443.7	458.0
50°	4840.7	3014.6	502.0	616.2	850.6	892.2	668.6	506.8	408.0	477.0	509.2
52.5°	4778.8	2764.7	449.7	559.1	813.7	857.7	641.2	498.5	396.2	460.4	484.2
55°	4860.9	2606.5	364.0	471.1	741.1	776.8	619.8	497.3	368.8	358.1	354.5
57.5°	4745.5	2291.3	260.5	339.0	568.6	615.0	604.3	488.9	327.2	326.0	330.7
60°	3667.7	1397.8	178.4	215.3	348.6	392.6	548.4	467.5	281.9	259.3	260.5
62.5°	2084.3	594.8	122.5	133.2	178.4	211.8	418.8	424.7	260.5	247.4	260.5
65°	725.7	212.9	95.2	89.2	98.7	113.0	240.3	328.3	236.7	214.1	216.5
67.5°	149.9	105.9	84.5	73.8	73.8	73.8	122.5	204.6	195.1	170.1	172.5
70°	95.2	90.4	73.8	63.1	60.7	55.9	70.2	113.0	134.4	123.7	124.9
72.5°	70.2	69.0	58.3	51.2	45.2	40.4	44.0	55.9	69.0	71.4	72.6
75°	42.8	44.0	38.1	32.1	28.6	25.0	26.2	26.2	26.2	23.8	26.2
77.5°	13.1	14.3	11.9	9.5	8.3	8.3	8.3	7.1	5.9	3.6	3.6
80°	3.6	3.6	3.6	3.6	3.6	2.4	2.4	1.2	1.2	0.0	0.0
82.5°	3.6	3.6	3.6	3.6	2.4	2.4	1.2	1.2	0.0	0.0	0.0
85°	3.6	3.6	3.6	3.6	2.4	2.4	1.2	1.2	0.0	0.0	0.0
87.5°	3.6	3.6	3.6	3.6	2.4	2.4	1.2	1.2	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)