

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: P640233

Luminaire Tested: GWS-SA5D-740-U-SL3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640233  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-740-U-SL3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

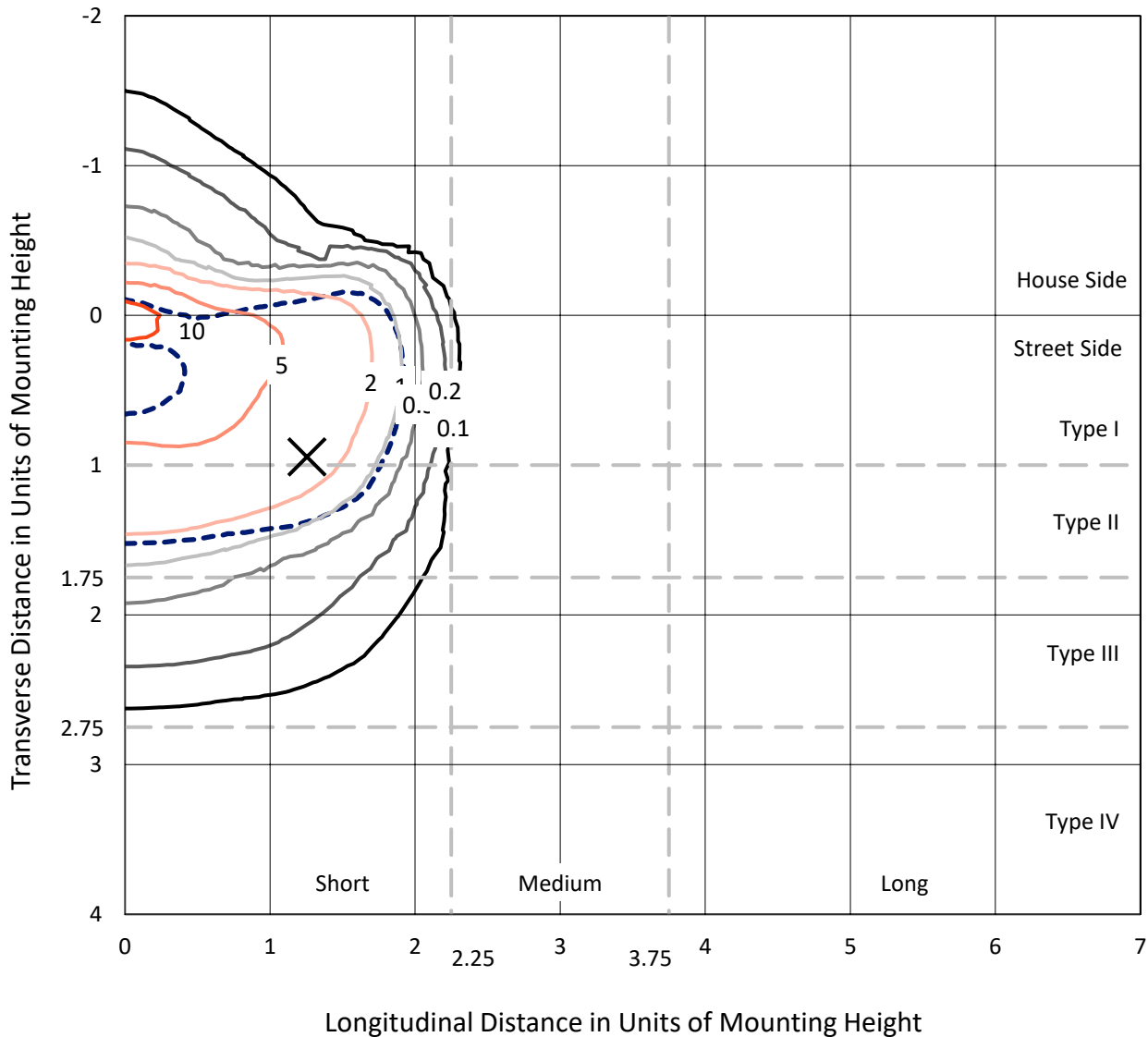
Lumens per Lamp: N/A  
Luminaire Lumens: 17570.8 lumens  
Efficiency: N/A  
Efficacy: 85.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

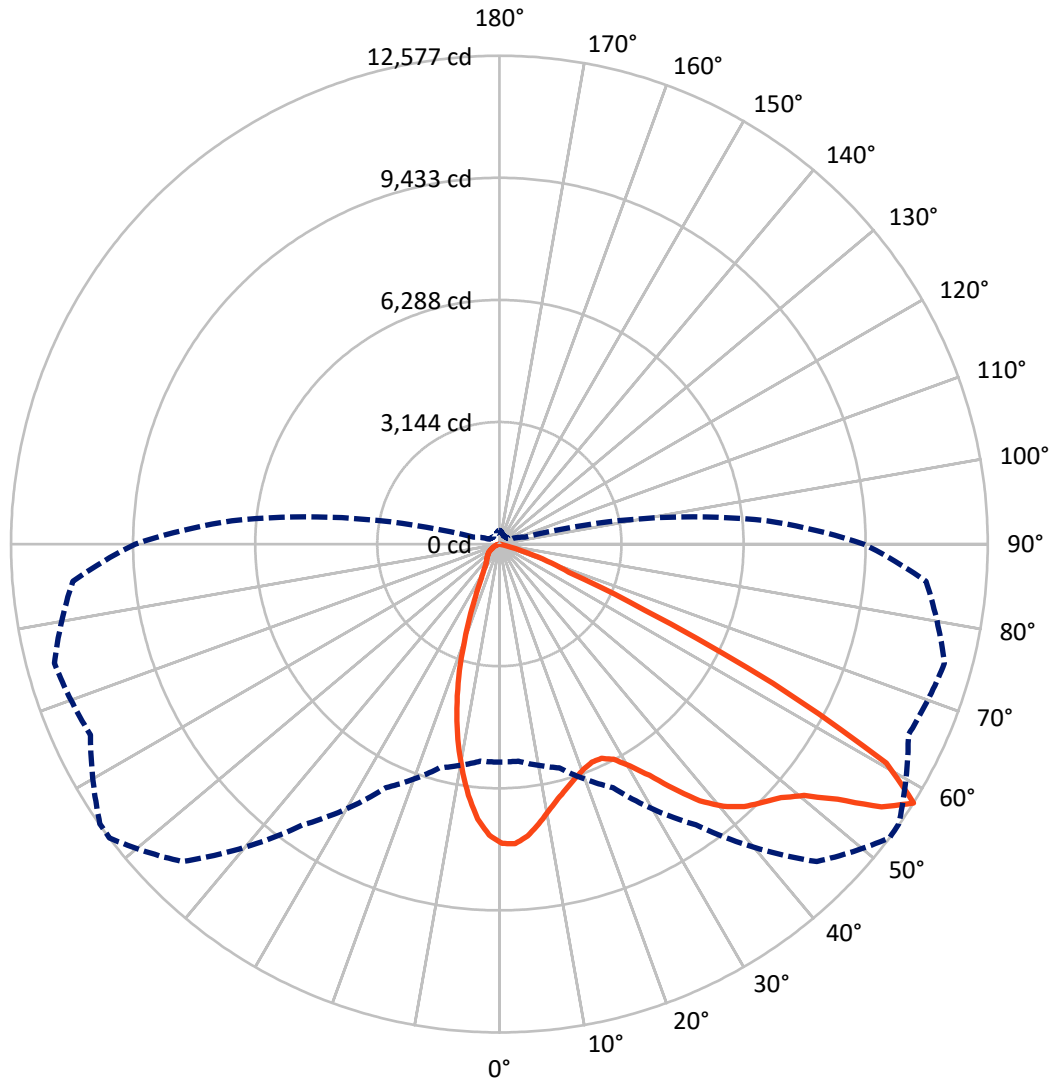
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2902.5	0.0	2902.5
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	14668.3	0.0	14668.3
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	17570.8	0.0	17570.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	659.4	3.8
10°-20°	1447.7	8.2
20°-30°	1886.0	10.7
30°-40°	2735.7	15.6
40°-50°	3947.4	22.5
50°-60°	4774.0	27.2
60°-70°	1945.7	11.1
70°-80°	174.8	1.0
80°-90°	0.0	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°	17570.8	100.0
0°-180°	17570.8	100.0

**Coefficient of Utilization**



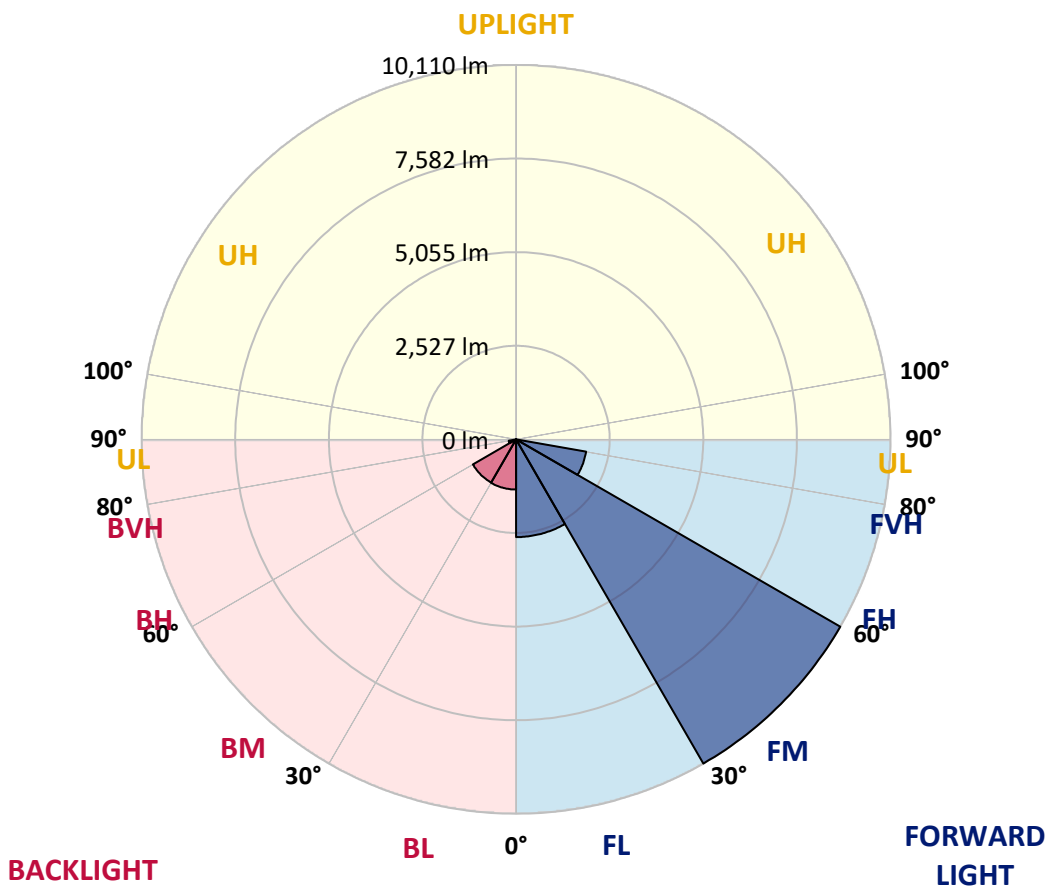
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2638.6	15.0			
FM (30°-60°)	10109.9	57.5			
FH (60°-80°)	1919.9	10.9			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1354.6	7.7	B3/2500		
BM (30°-60°)	1347.2	7.7	B2/2500		
BH (60°-80°)	200.6	1.1	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	7707.6	7707.6	7707.6	7707.6	7707.6	7707.6	7707.6	7707.6	7707.6	7707.6	7707.6
2.5°	7599.9	7617.1	7647.3	7686.0	7711.9	7724.8	7724.8	7761.4	7737.7	7718.3	7696.8
5°	7274.7	7291.9	7332.8	7395.3	7457.7	7503.0	7554.7	7593.4	7608.5	7608.5	7571.9
7.5°	6816.0	6839.7	6865.5	6951.7	7087.3	7188.5	7276.8	7332.8	7414.7	7440.5	7388.8
10°	6322.8	6346.5	6404.7	6523.1	6678.2	6828.9	6979.7	7050.7	7190.7	7263.9	7205.8
12.5°	5905.0	5915.8	5993.3	6135.5	6333.6	6540.3	6723.4	6796.6	6994.7	7104.6	7035.6
15°	5560.5	5566.9	5644.5	5801.7	6029.9	6284.1	6514.5	6589.9	6833.2	6999.0	6895.7
17.5°	5299.9	5302.0	5368.8	5538.9	5778.0	6060.1	6333.6	6426.2	6740.6	6940.9	6785.8
20°	5168.5	5162.1	5209.4	5358.0	5584.2	5866.3	6189.3	6303.4	6688.9	6932.3	6701.8
22.5°	5170.7	5155.6	5175.0	5280.5	5472.2	5737.1	6098.9	6228.1	6693.2	6968.9	6630.8
25°	5293.4	5271.9	5276.2	5332.2	5467.9	5709.1	6111.8	6249.6	6779.4	7091.6	6604.9
27.5°	5500.2	5476.5	5476.5	5504.5	5577.7	5797.4	6273.3	6430.5	7009.8	7330.7	6658.8
30°	5767.2	5743.5	5734.9	5762.9	5823.2	6025.6	6632.9	6796.6	7403.9	7722.6	6831.1
32.5°	6073.0	6045.0	6060.1	6098.9	6157.0	6437.0	7095.9	7313.5	7897.1	8250.2	7141.2
35°	6396.0	6372.4	6441.3	6525.3	6615.7	7007.7	7735.6	7925.1	8502.2	8907.1	7615.0
37.5°	6704.0	6693.2	6837.5	7014.1	7201.5	7692.5	8385.9	8532.4	9021.2	9622.1	8194.3
40°	7012.0	7009.8	7257.5	7567.6	7866.9	8375.2	8879.1	8999.7	9337.8	10177.7	8749.9
42.5°	7356.5	7356.5	7698.9	8112.4	8510.8	8952.3	9240.9	9294.7	9479.9	10498.6	9167.7
45°	7686.0	7705.4	8101.7	8581.9	9053.5	9402.4	9490.7	9495.0	9538.1	10688.1	9514.4
47.5°	7946.6	7963.8	8437.6	8991.1	9499.3	9744.8	9757.7	9738.4	9691.0	10869.0	9781.4
50°	8157.6	8183.5	8678.8	9264.6	9805.1	10074.3	10173.4	10154.0	10033.4	11062.8	9968.8
52.5°	8261.0	8297.6	8762.8	9400.2	10145.4	10638.5	10914.2	10959.4	10545.9	11170.5	10147.5
55°	7434.1	7487.9	7916.4	8788.6	10334.9	11510.7	11943.6	11935.0	11101.5	11491.3	10582.5
57.5°	5614.3	5610.0	5965.3	6919.4	8827.4	11560.3	12576.7	12559.5	11620.6	11863.9	11028.3
60°	3822.6	3796.7	3891.5	4352.3	6172.1	9417.5	11446.1	11678.7	11252.3	10959.4	9363.6
62.5°	3146.3	3122.6	3092.5	2965.4	3544.7	5866.3	7907.8	8261.0	8205.0	7617.1	5872.7
65°	2575.6	2595.0	2679.0	2625.2	2465.8	3008.5	4104.7	4313.6	3943.1	3318.6	2052.3
67.5°	1899.4	1908.0	2017.9	2302.1	2216.0	2002.8	1931.7	1966.2	1152.1	529.8	342.4
70°	1122.0	1128.5	1229.7	1610.9	1798.2	1537.6	1305.1	1285.7	456.6	142.1	155.1
72.5°	635.3	622.4	641.8	766.7	979.9	816.2	671.9	611.6	137.8	79.7	79.7
75°	301.5	292.9	252.0	236.9	215.4	137.8	86.1	73.2	34.5	32.3	32.3
77.5°	2.2	6.5	4.3	6.5	6.5	4.3	2.2	2.2	6.5	6.5	8.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7707.6	7707.6	7707.6	7707.6	7707.6	7707.6	7707.6	7707.6	7707.6	7707.6	7707.6
2.5°	7658.0	7593.4	7578.3	7574.0	7513.7	7449.1	7382.4	7356.5	7317.8	7294.1	7313.5
5°	7513.7	7421.1	7339.3	7263.9	7130.4	6984.0	6856.9	6775.1	6697.5	6645.9	6658.8
7.5°	7309.1	7188.5	7001.2	6809.5	6564.0	6344.4	6098.9	5948.1	5808.1	5730.6	5767.2
10°	7091.6	6932.3	6632.9	6307.7	5922.3	5577.7	5226.7	4940.2	4774.4	4617.2	4634.4
12.5°	6878.4	6667.4	6219.5	5726.3	5239.6	4731.3	4201.6	3805.3	3534.0	3338.0	3307.9
15°	6680.3	6409.0	5816.7	5166.4	4503.1	3826.9	3150.6	2584.3	2269.8	2076.0	2063.1
17.5°	6503.7	6167.8	5398.9	4580.6	3749.3	2883.6	2106.2	1681.9	1501.0	1417.0	1408.4
20°	6333.6	5924.4	4972.5	3986.2	2926.7	2024.3	1453.6	1257.7	1199.5	1165.1	1169.4
22.5°	6169.9	5659.5	4524.6	3327.2	2194.5	1421.3	1126.3	1050.9	1044.5	1048.8	1050.9
25°	6032.1	5416.2	4063.7	2691.9	1565.6	1083.2	941.1	919.6	938.9	966.9	971.3
27.5°	5961.0	5218.1	3613.7	2052.3	1132.8	880.8	816.2	824.8	859.3	889.4	893.7
30°	5980.4	5069.5	3148.5	1488.1	872.2	743.0	721.4	738.7	773.1	801.1	805.4
32.5°	6118.2	4994.1	2672.6	1083.2	717.1	648.2	639.6	652.5	682.7	704.2	706.4
35°	6391.7	5011.3	2220.3	829.1	615.9	577.2	575.0	583.6	598.7	613.8	615.9
37.5°	6794.4	5151.3	1774.5	689.1	557.8	529.8	521.2	521.2	531.9	538.4	542.7
40°	7227.3	5362.3	1421.3	609.5	516.9	486.7	469.5	463.0	471.6	480.2	482.4
42.5°	7584.8	5573.4	1154.3	553.5	484.5	443.6	422.1	417.8	428.6	443.6	447.9
45°	7858.3	5737.1	962.6	508.2	447.9	402.7	379.0	379.0	398.4	424.2	428.6
47.5°	8108.1	5868.4	820.5	467.3	413.5	366.1	342.4	346.7	379.0	413.5	419.9
50°	8278.2	5973.9	715.0	430.7	385.5	336.0	314.4	323.0	361.8	402.7	409.2
52.5°	8461.3	6103.2	646.1	398.4	359.6	312.3	292.9	299.3	342.4	387.6	396.3
55°	8967.4	6536.0	643.9	355.3	314.4	280.0	271.3	273.5	316.6	368.3	379.0
57.5°	9380.9	6917.2	687.0	299.3	262.7	245.5	241.2	243.4	282.1	340.3	353.2
60°	7761.4	5375.3	568.5	247.7	219.7	215.4	208.9	213.2	249.8	301.5	312.3
62.5°	4593.5	3073.1	271.3	189.5	187.4	183.1	176.6	185.2	219.7	264.9	271.3
65°	1569.9	911.0	172.3	155.1	159.4	152.9	146.4	155.1	185.2	211.0	213.2
67.5°	301.5	241.2	137.8	129.2	131.4	118.4	116.3	124.9	142.1	146.4	144.3
70°	157.2	140.0	105.5	105.5	101.2	84.0	84.0	92.6	92.6	86.1	84.0
72.5°	81.8	77.5	68.9	77.5	64.6	51.7	51.7	56.0	51.7	43.1	43.1
75°	32.3	32.3	30.1	38.8	28.0	23.7	21.5	25.8	19.4	15.1	15.1
77.5°	8.6	8.6	8.6	10.8	6.5	6.5	4.3	4.3	2.2	0.0	0.0
80°	0.0	2.2	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)