

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: P638198

Luminaire Tested: GWS-SA4E-735-U-SL3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638198  
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-SA4E-735-U-SL3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

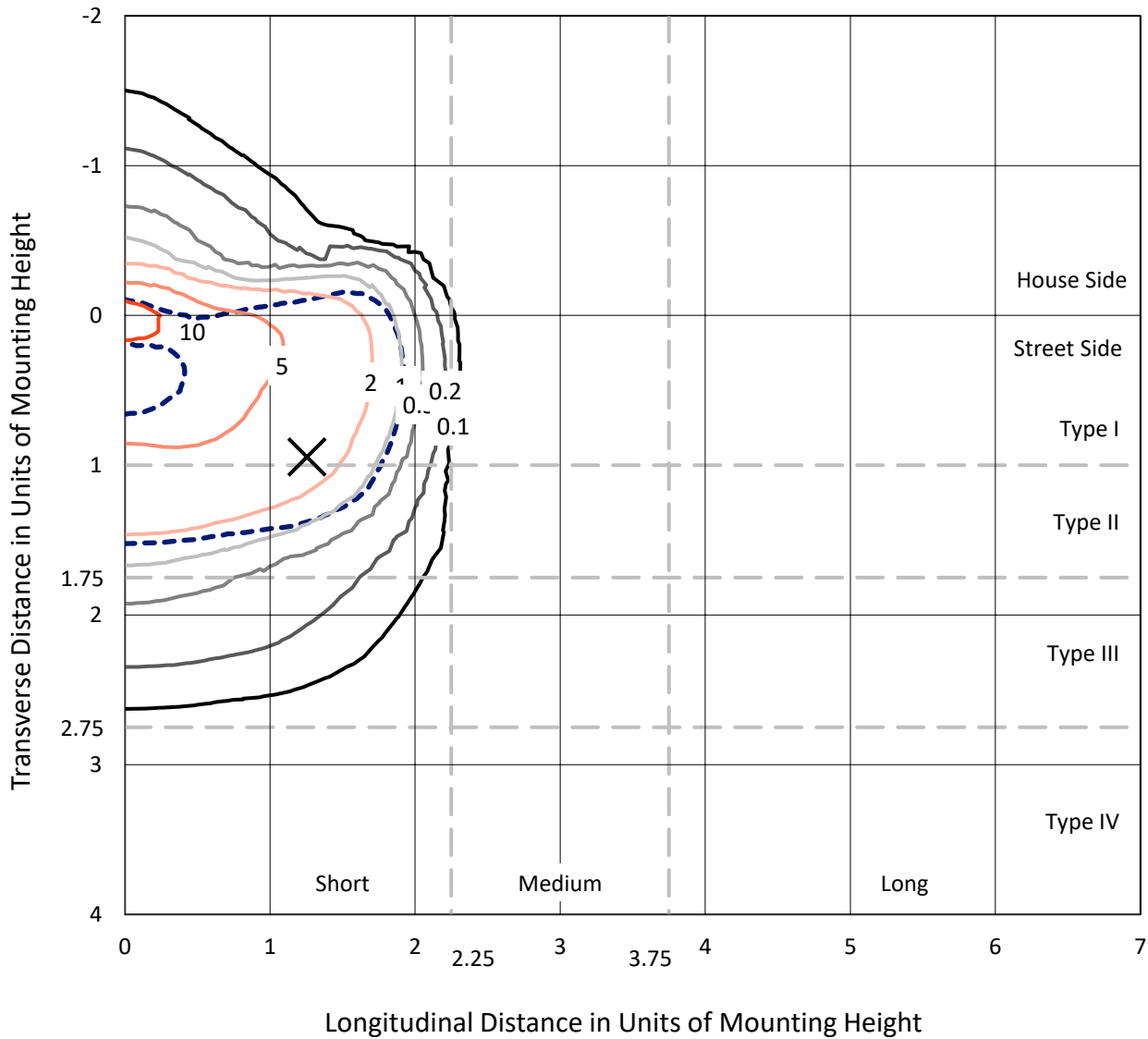
Lumens per Lamp: N/A  
Luminaire Lumens: 17654 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

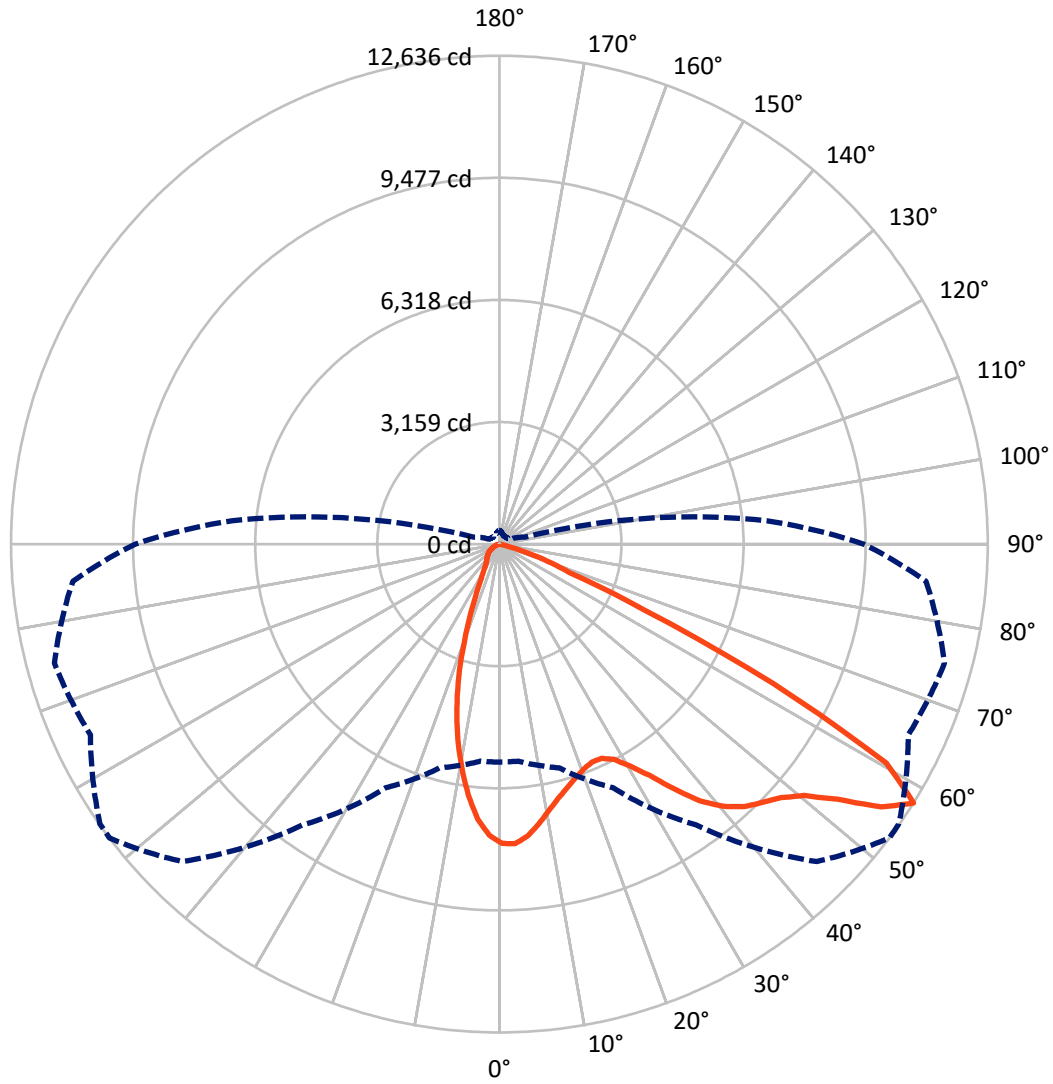
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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	2916.2	0.0	2916.2
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	14737.8	0.0	14737.8
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	17654.0	0.0	17654.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	662.6	3.8
10°-20°	1454.6	8.2
20°-30°	1894.9	10.7
30°-40°	2748.6	15.6
40°-50°	3966.1	22.5
50°-60°	4796.6	27.2
60°-70°	1954.9	11.1
70°-80°	175.7	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°	17654.0	100.0
0°-180°	17654.0	100.0

**Coefficient of Utilization**



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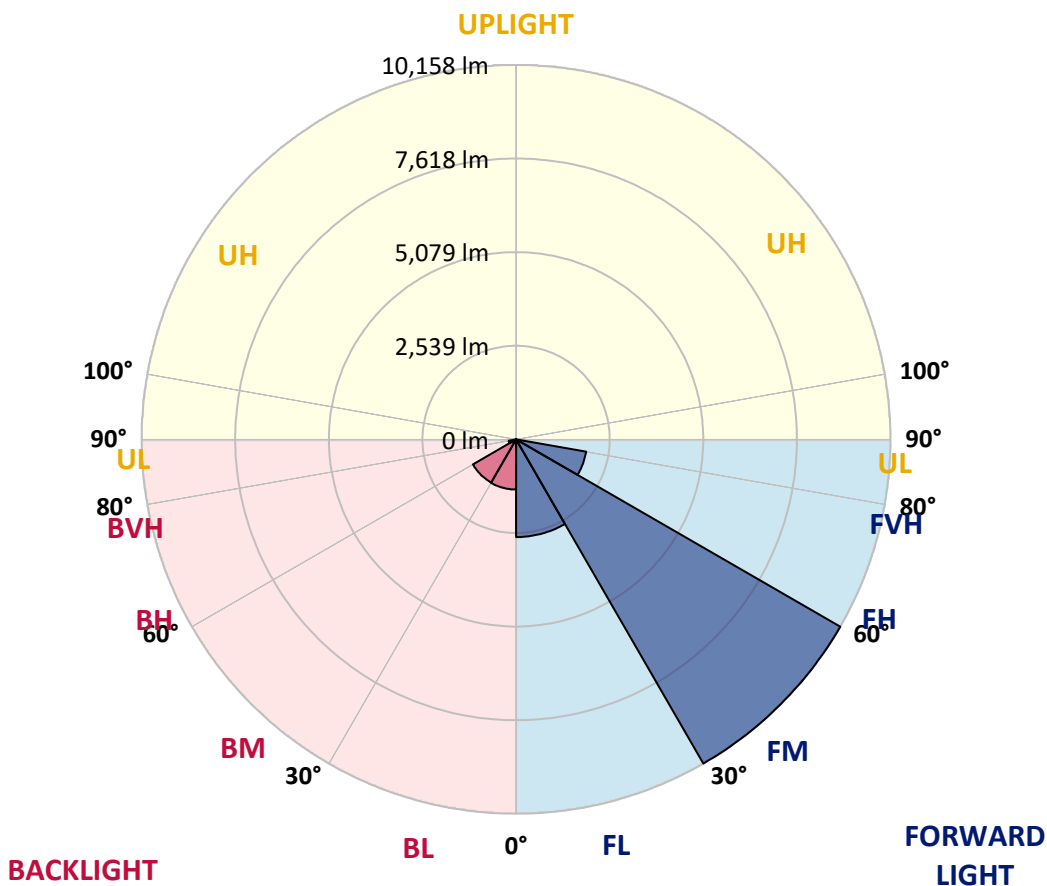
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2651.0	15.0			
FM (30°-60°)	10157.8	57.5			
FH (60°-80°)	1929.0	10.9			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1361.0	7.7	B3/2500		
BM (30°-60°)	1353.6	7.7	B2/2500		
BH (60°-80°)	201.6	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°	7744.1	7744.1	7744.1	7744.1	7744.1	7744.1	7744.1	7744.1	7744.1	7744.1	7744.1
2.5°	7635.9	7653.2	7683.5	7722.4	7748.4	7761.4	7761.4	7798.1	7774.3	7754.9	7733.2
5°	7309.1	7326.4	7367.6	7430.3	7493.1	7538.5	7590.4	7629.4	7644.5	7644.5	7607.7
7.5°	6848.3	6872.1	6898.0	6984.6	7120.9	7222.6	7311.3	7367.6	7449.8	7475.7	7423.8
10°	6352.8	6376.6	6435.0	6554.0	6709.8	6861.2	7012.7	7084.1	7224.8	7298.3	7239.9
12.5°	5933.0	5943.8	6021.7	6164.5	6363.6	6571.3	6755.2	6828.8	7027.9	7138.2	7069.0
15°	5586.8	5593.3	5671.2	5829.1	6058.5	6313.8	6545.3	6621.1	6865.6	7032.2	6928.3
17.5°	5325.0	5327.1	5394.2	5565.2	5805.3	6088.8	6363.6	6456.6	6772.5	6973.8	6818.0
20°	5193.0	5186.5	5234.1	5383.4	5610.6	5894.0	6218.6	6333.3	6720.6	6965.1	6733.6
22.5°	5195.2	5180.0	5199.5	5305.5	5498.1	5764.2	6127.7	6257.6	6724.9	7001.9	6662.2
25°	5318.5	5296.9	5301.2	5357.4	5493.8	5736.1	6140.7	6279.2	6811.5	7125.2	6636.2
27.5°	5526.2	5502.4	5502.4	5530.5	5604.1	5824.8	6303.0	6460.9	7043.0	7365.4	6690.3
30°	5794.5	5770.7	5762.1	5790.2	5850.8	6054.2	6664.3	6828.8	7439.0	7759.2	6863.4
32.5°	6101.8	6073.6	6088.8	6127.7	6186.2	6467.4	7129.5	7348.1	7934.5	8289.3	7175.0
35°	6426.3	6402.5	6471.8	6556.2	6647.0	7040.8	7772.2	7962.6	8542.5	8949.3	7651.0
37.5°	6735.7	6724.9	6869.9	7047.3	7235.6	7728.9	8425.6	8572.8	9063.9	9667.6	8233.1
40°	7045.2	7043.0	7291.8	7603.4	7904.2	8414.8	8921.1	9042.3	9382.0	10225.9	8791.3
42.5°	7391.4	7391.4	7735.4	8150.8	8551.1	8994.7	9284.6	9338.7	9524.8	10548.3	9211.1
45°	7722.4	7741.9	8140.0	8622.5	9096.4	9446.9	9535.6	9540.0	9583.2	10738.7	9559.4
47.5°	7984.2	8001.5	8477.6	9033.6	9544.3	9791.0	9803.9	9784.5	9736.9	10920.4	9827.7
50°	8196.3	8222.2	8719.9	9308.4	9851.5	10122.0	10221.5	10202.1	10080.9	11115.2	10016.0
52.5°	8300.1	8336.9	8804.3	9444.8	10193.4	10688.9	10965.9	11011.3	10595.9	11223.4	10195.6
55°	7469.3	7523.3	7953.9	8830.3	10383.8	11565.2	12000.1	11991.5	11154.1	11545.8	10632.7
57.5°	5640.9	5636.6	5993.6	6952.1	8869.2	11615.0	12636.3	12619.0	11675.6	11920.1	11080.5
60°	3840.7	3814.7	3909.9	4372.9	6201.3	9462.1	11500.3	11734.0	11305.6	11011.3	9408.0
62.5°	3161.2	3137.4	3107.1	2979.5	3561.5	5894.0	7945.3	8300.1	8243.9	7653.2	5900.5
65°	2587.8	2607.3	2691.7	2637.6	2477.5	3022.8	4124.1	4334.0	3961.8	3334.3	2062.1
67.5°	1908.4	1917.1	2027.4	2313.0	2226.5	2012.3	1940.9	1975.5	1157.6	532.3	344.0
70°	1127.3	1133.8	1235.5	1618.5	1806.7	1544.9	1311.2	1291.8	458.7	142.8	155.8
72.5°	638.3	625.3	644.8	770.3	984.5	820.1	675.1	614.5	138.5	80.1	80.1
75°	302.9	294.3	253.2	238.0	216.4	138.5	86.5	73.6	34.6	32.5	32.5
77.5°	2.2	6.5	4.3	6.5	6.5	4.3	2.2	2.2	6.5	6.5	8.7
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°	7744.1	7744.1	7744.1	7744.1	7744.1	7744.1	7744.1	7744.1	7744.1	7744.1	7744.1
2.5°	7694.3	7629.4	7614.2	7609.9	7549.3	7484.4	7417.3	7391.4	7352.4	7328.6	7348.1
5°	7549.3	7456.3	7374.1	7298.3	7164.2	7017.0	6889.4	6807.1	6729.3	6677.3	6690.3
7.5°	7343.8	7222.6	7034.3	6841.8	6595.1	6374.4	6127.7	5976.3	5835.6	5757.7	5794.5
10°	7125.2	6965.1	6664.3	6337.6	5950.3	5604.1	5251.4	4963.6	4797.0	4639.1	4656.4
12.5°	6911.0	6699.0	6248.9	5753.4	5264.4	4753.8	4221.5	3823.3	3550.7	3353.8	3323.5
15°	6711.9	6439.3	5844.3	5190.8	4524.4	3845.0	3165.6	2596.5	2280.6	2085.9	2072.9
17.5°	6534.5	6197.0	5424.5	4602.3	3767.1	2897.3	2116.1	1689.9	1508.1	1423.7	1415.1
20°	6363.6	5952.5	4996.1	4005.1	2940.5	2033.9	1460.5	1263.6	1205.2	1170.6	1174.9
22.5°	6199.1	5686.3	4546.0	3343.0	2204.9	1428.1	1131.6	1055.9	1049.4	1053.7	1055.9
25°	6060.7	5441.8	4083.0	2704.7	1573.0	1088.4	945.6	923.9	943.4	971.5	975.8
27.5°	5989.3	5242.8	3630.8	2062.1	1138.1	885.0	820.1	828.7	863.3	893.6	898.0
30°	6008.7	5093.5	3163.4	1495.1	876.3	746.5	724.9	742.2	776.8	804.9	809.2
32.5°	6147.2	5017.7	2685.2	1088.4	720.5	651.3	642.6	655.6	685.9	707.5	709.7
35°	6422.0	5035.0	2230.8	833.0	618.8	579.9	577.7	586.4	601.5	616.7	618.8
37.5°	6826.6	5175.7	1782.9	692.4	560.4	532.3	523.6	523.6	534.4	540.9	545.3
40°	7261.5	5387.7	1428.1	612.3	519.3	489.0	471.7	465.2	473.9	482.5	484.7
42.5°	7620.7	5599.8	1159.8	556.1	486.8	445.7	424.1	419.8	430.6	445.7	450.1
45°	7895.5	5764.2	967.2	510.6	450.1	404.6	380.8	380.8	400.3	426.3	430.6
47.5°	8146.5	5896.2	824.4	469.5	415.4	367.8	344.0	348.4	380.8	415.4	421.9
50°	8317.4	6002.2	718.4	432.7	387.3	337.5	315.9	324.6	363.5	404.6	411.1
52.5°	8501.4	6132.1	649.1	400.3	361.3	313.7	294.3	300.8	344.0	389.5	398.1
55°	9009.8	6567.0	647.0	357.0	315.9	281.3	272.6	274.8	318.1	370.0	380.8
57.5°	9425.3	6950.0	690.2	300.8	264.0	246.7	242.3	244.5	283.5	341.9	354.9
60°	7798.1	5400.7	571.2	248.8	220.7	216.4	209.9	214.2	251.0	302.9	313.7
62.5°	4615.3	3087.7	272.6	190.4	188.2	183.9	177.4	186.1	220.7	266.1	272.6
65°	1577.4	915.3	173.1	155.8	160.1	153.6	147.1	155.8	186.1	212.0	214.2
67.5°	302.9	242.3	138.5	129.8	132.0	119.0	116.8	125.5	142.8	147.1	145.0
70°	158.0	140.6	106.0	106.0	101.7	84.4	84.4	93.0	93.0	86.5	84.4
72.5°	82.2	77.9	69.2	77.9	64.9	51.9	51.9	56.3	51.9	43.3	43.3
75°	32.5	32.5	30.3	38.9	28.1	23.8	21.6	26.0	19.5	15.1	15.1
77.5°	8.7	8.7	8.7	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)