

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: P638496

Luminaire Tested: GWS-SA4E-830-U-T3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638496  
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-SA4E-830-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) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

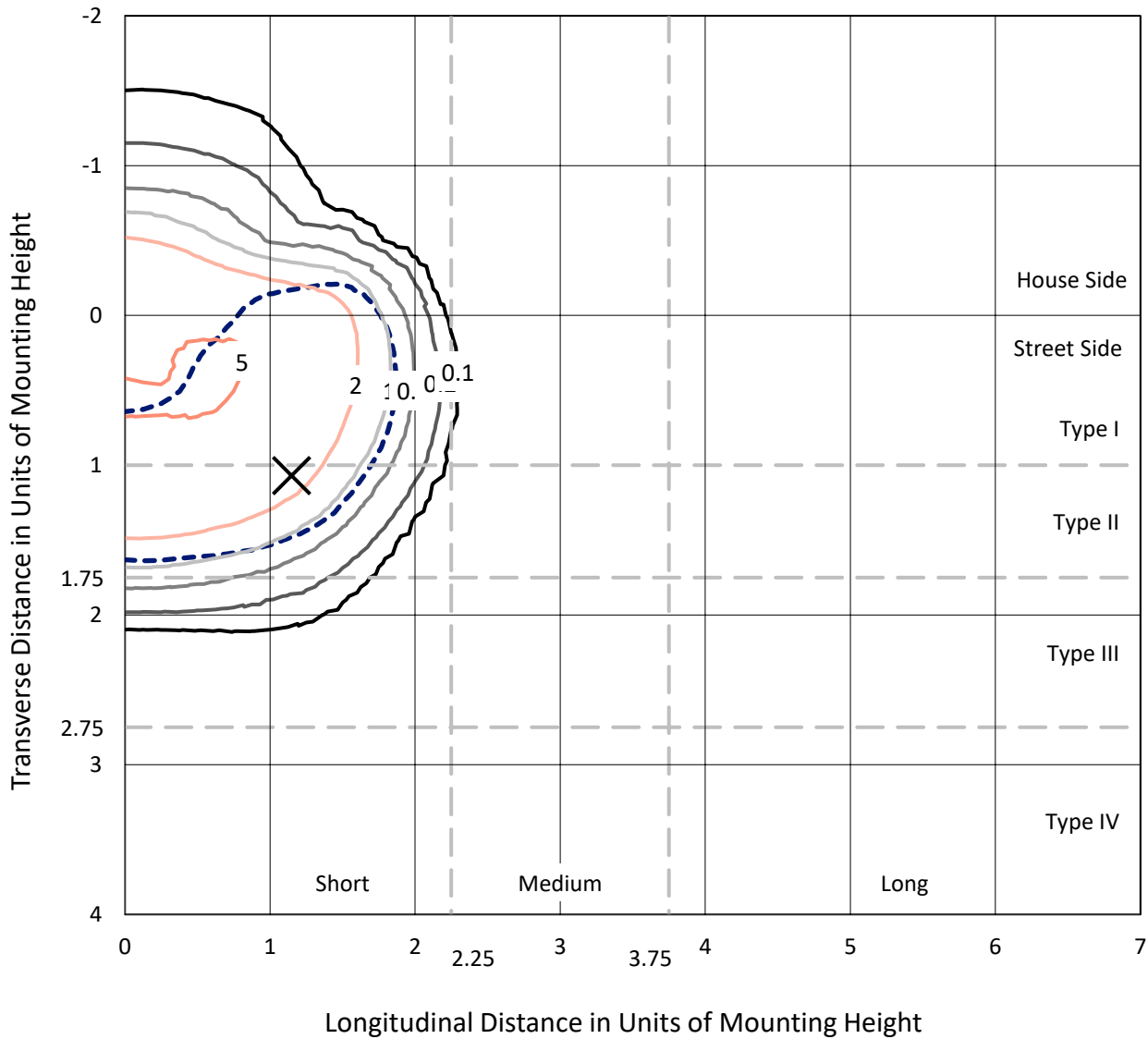
Lumens per Lamp: N/A  
Luminaire Lumens: 15012 lumens  
Efficiency: N/A  
Efficacy: 74.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

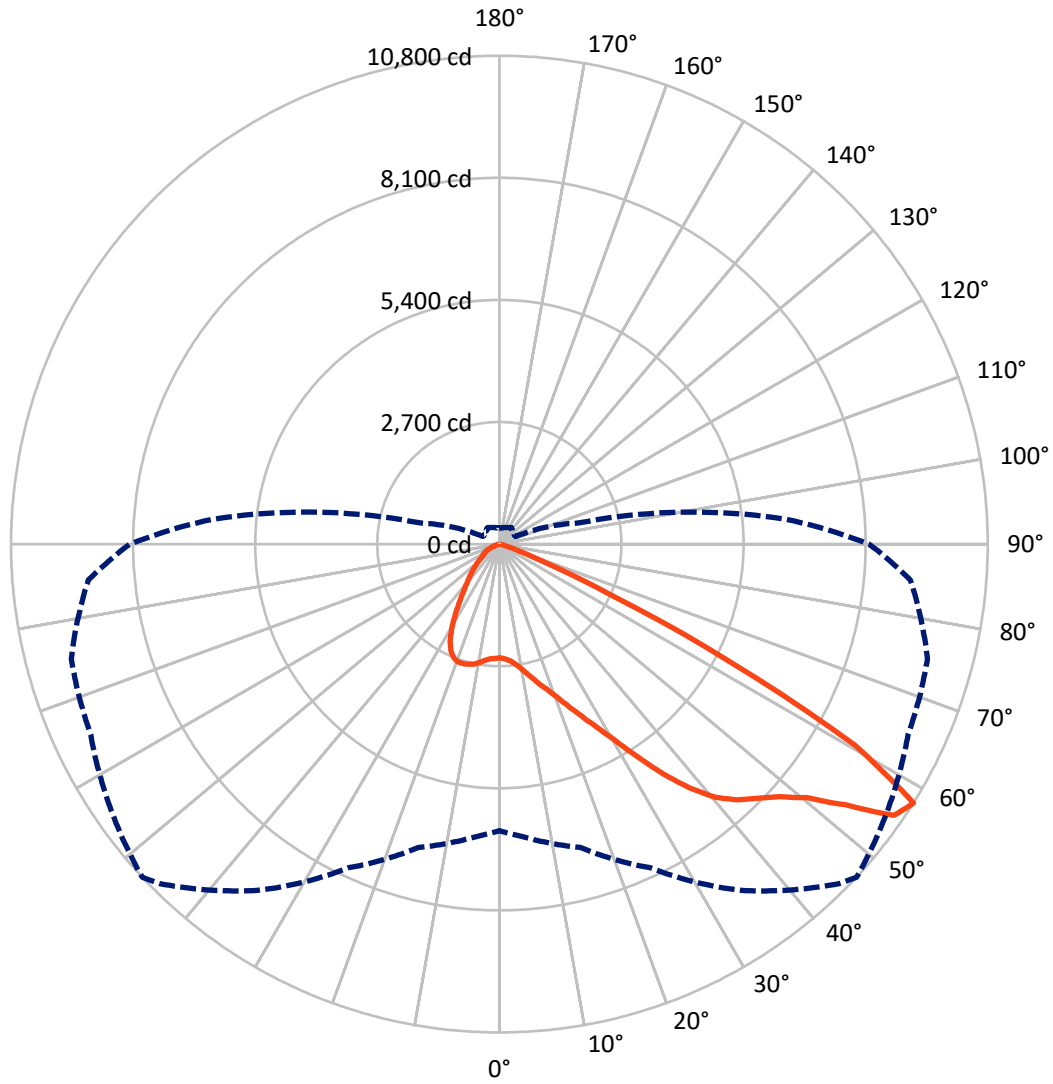
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	3256.8	0.0	3256.8
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	11755.2	0.0	11755.2
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	15012.0	0.0	15012.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.0	1.7
10°-20°	843.6	5.6
20°-30°	1566.4	10.4
30°-40°	2507.5	16.7
40°-50°	3665.4	24.4
50°-60°	4523.7	30.1
60°-70°	1511.6	10.1
70°-80°	140.8	0.9
80°-90°	2.9	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°	15012.0	100.0
0°-180°	15012.0	100.0

**Coefficient of Utilization**



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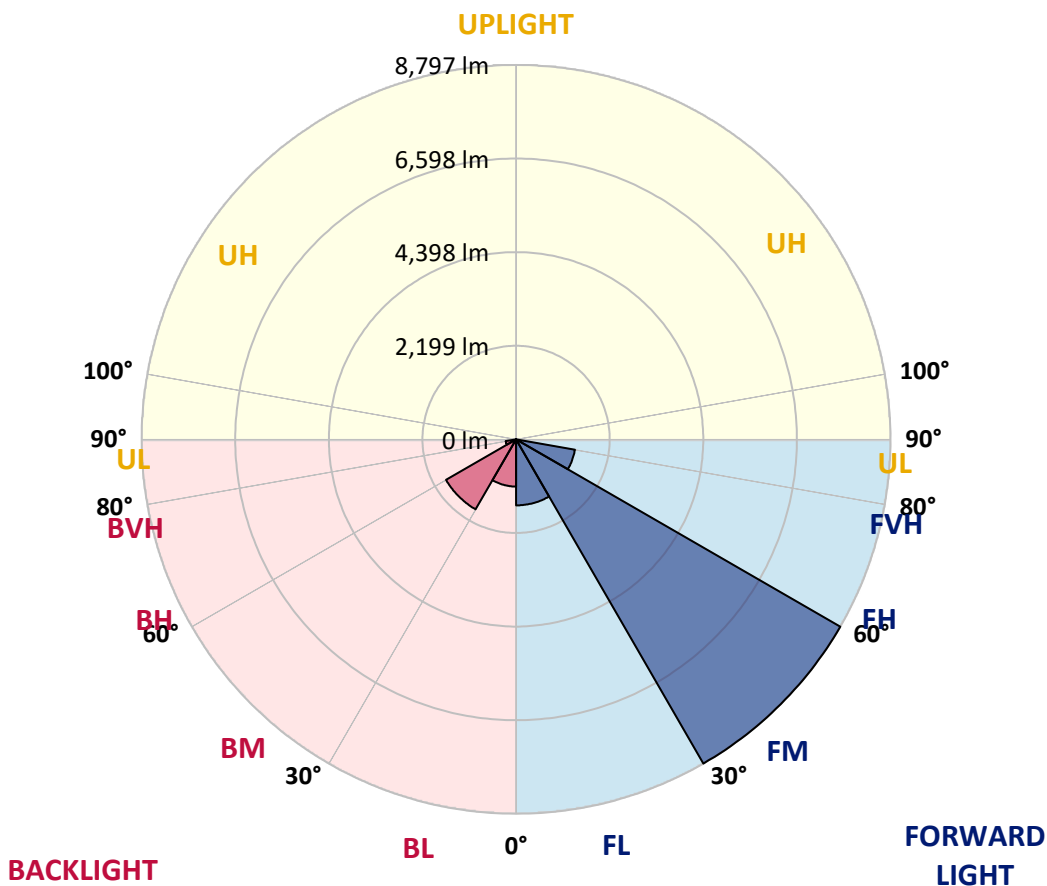
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1551.4	10.3			
FM (30°-60°)	8796.9	58.6			
FH (60°-80°)	1404.8	9.4			G1/1800
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	1108.6	7.4	B3/2500		
BM (30°-60°)	1899.7	12.7	B2/2500		
BH (60°-80°)	247.6	1.6	B1/500		G1/500
BVH (80°-90°)	0.9	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2513.0	2513.0	2513.0	2513.0	2513.0	2513.0	2513.0	2513.0	2513.0	2513.0	2513.0
2.5°	2539.2	2537.4	2535.7	2546.1	2542.7	2540.9	2544.4	2544.4	2544.4	2533.9	2513.0
5°	2600.2	2600.2	2598.4	2608.9	2600.2	2594.9	2596.7	2596.7	2589.7	2570.5	2544.4
7.5°	2696.0	2692.5	2689.0	2699.5	2690.8	2689.0	2692.5	2682.1	2669.9	2638.5	2601.9
10°	2833.7	2833.7	2828.5	2838.9	2831.9	2828.5	2828.5	2821.5	2798.8	2750.0	2696.0
12.5°	3023.6	3014.9	3002.7	2994.0	2990.5	2988.8	2990.5	2980.1	2955.7	2892.9	2818.0
15°	3231.0	3224.1	3204.9	3190.9	3171.8	3168.3	3178.7	3170.0	3145.6	3060.2	2953.9
17.5°	3492.4	3501.2	3452.4	3422.7	3367.0	3363.5	3367.0	3380.9	3363.5	3253.7	3098.6
20°	3715.5	3722.5	3685.9	3665.0	3614.4	3591.8	3598.7	3621.4	3602.2	3473.3	3257.2
22.5°	3954.3	3963.0	3924.6	3881.1	3858.4	3858.4	3884.6	3915.9	3889.8	3720.7	3438.4
25°	4240.1	4247.0	4215.7	4158.2	4118.1	4168.6	4207.0	4290.6	4247.0	4017.0	3652.8
27.5°	4567.7	4569.5	4524.1	4464.9	4444.0	4538.1	4576.4	4705.4	4688.0	4349.9	3879.3
30°	4918.0	4919.7	4909.3	4869.2	4850.0	4973.8	5026.0	5212.5	5200.3	4762.9	4187.8
32.5°	5282.2	5282.2	5301.4	5297.9	5320.6	5522.7	5606.4	5819.0	5806.8	5268.3	4571.2
35°	5648.2	5649.9	5683.1	5766.7	5860.8	6129.2	6239.0	6496.9	6469.0	5873.0	5060.9
37.5°	6064.7	6047.3	6092.6	6218.1	6427.2	6737.4	6842.0	7087.7	7056.3	6491.7	5700.5
40°	6566.6	6535.3	6535.3	6681.6	6918.7	7275.9	7364.8	7486.8	7380.5	6991.9	6327.9
42.5°	7120.8	7091.2	7052.9	7181.8	7380.5	7659.3	7732.5	7699.4	7612.3	7464.1	7042.4
45°	7682.0	7636.7	7662.8	7741.2	7856.3	7988.7	8016.6	7863.2	7823.1	7865.0	7633.2
47.5°	8108.9	8077.6	8142.1	8251.9	8346.0	8365.1	8346.0	8133.3	8129.9	8278.0	8042.7
50°	8251.9	8255.3	8433.1	8673.6	8825.2	8840.9	8814.8	8570.8	8537.7	8581.2	8264.1
52.5°	8265.8	8279.7	8539.4	8997.7	9410.8	9599.0	9578.1	9314.9	8990.8	8943.7	8598.7
55°	7929.4	8011.4	8373.8	9043.1	9921.4	10522.6	10592.3	10088.7	9607.7	9567.6	9318.4
57.5°	6338.3	6505.6	6943.1	7896.3	9351.5	10618.5	10799.7	10437.2	9971.9	9801.1	9125.0
60°	3788.7	3996.1	4416.1	5585.5	7117.3	8727.6	9039.6	9090.1	8875.8	8382.6	7000.6
62.5°	1626.0	1608.5	2126.1	3021.9	4233.1	5547.1	5688.3	5907.9	6094.3	5578.5	4248.8
65°	557.7	606.5	843.5	1362.8	2119.2	2575.8	2701.2	2898.2	3163.1	2610.6	1556.3
67.5°	345.1	366.0	486.2	805.1	1143.2	1125.8	1070.0	1038.7	1010.8	691.9	427.0
70°	251.0	268.4	341.6	554.2	768.5	540.2	468.8	379.9	421.7	388.6	303.2
72.5°	169.0	183.0	235.3	336.3	393.9	263.2	244.0	277.1	334.6	318.9	247.5
75°	101.1	109.8	134.2	163.8	160.3	135.9	137.7	195.2	256.2	238.8	176.0
77.5°	69.7	73.2	88.9	106.3	78.4	41.8	38.3	54.0	87.1	87.1	59.3
80°	17.4	22.7	22.7	13.9	12.2	10.5	10.5	15.7	24.4	17.4	8.7
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.5	3.5	3.5	3.5
85°	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7	3.5	3.5	3.5
87.5°	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.5	3.5
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°	2513.0	2513.0	2513.0	2513.0	2513.0	2513.0	2513.0	2513.0	2513.0	2513.0	2513.0
2.5°	2525.2	2504.3	2518.3	2514.8	2525.2	2528.7	2513.0	2509.5	2511.3	2490.4	2483.4
5°	2549.6	2525.2	2532.2	2525.2	2537.4	2547.9	2542.7	2549.6	2558.3	2542.7	2535.7
7.5°	2601.9	2577.5	2575.8	2565.3	2582.7	2589.7	2588.0	2607.1	2624.6	2614.1	2603.6
10°	2692.5	2659.4	2655.9	2647.2	2652.4	2657.7	2638.5	2642.0	2657.7	2645.5	2640.2
12.5°	2804.1	2764.0	2755.3	2734.4	2734.4	2708.2	2666.4	2657.7	2669.9	2661.2	2652.4
15°	2924.3	2870.3	2856.3	2819.7	2784.9	2736.1	2692.5	2682.1	2690.8	2680.3	2673.4
17.5°	3058.5	2997.5	2952.2	2887.7	2811.0	2753.5	2704.7	2682.1	2668.1	2647.2	2645.5
20°	3190.9	3110.8	3034.1	2931.3	2830.2	2743.1	2662.9	2603.6	2553.1	2521.7	2509.5
22.5°	3344.3	3225.8	3102.1	2957.4	2812.8	2680.3	2539.2	2438.1	2351.0	2321.3	2307.4
25°	3508.1	3354.8	3170.0	2981.8	2753.5	2540.9	2349.2	2199.3	2084.3	2046.0	2030.3
27.5°	3689.4	3478.5	3239.7	2976.6	2631.5	2342.2	2087.8	1901.3	1788.0	1753.2	1765.4
30°	3919.4	3638.8	3326.9	2922.6	2448.5	2063.4	1765.4	1608.5	1523.2	1490.0	1491.8
32.5°	4226.1	3868.9	3454.1	2807.5	2213.3	1746.2	1484.8	1369.8	1312.3	1268.7	1265.2
35°	4665.3	4219.2	3572.6	2622.8	1927.5	1463.9	1273.9	1183.3	1103.2	1052.6	1061.3
37.5°	5191.6	4660.1	3637.1	2373.6	1606.8	1244.3	1115.4	1023.0	932.4	857.4	866.1
40°	5815.5	5236.9	3631.9	2046.0	1314.0	1094.4	982.9	874.9	761.6	693.6	700.6
42.5°	6510.9	5782.4	3518.6	1699.2	1089.2	972.4	855.7	719.7	610.0	568.1	569.9
45°	7113.8	6225.1	3319.9	1340.2	916.7	853.9	723.2	583.8	535.0	505.4	503.7
47.5°	7560.0	6549.2	3035.8	1054.4	777.3	745.9	594.3	522.8	484.5	460.1	456.6
50°	7809.2	6662.5	2722.2	826.1	657.0	632.6	531.5	474.0	447.9	432.2	428.7
52.5°	8143.8	6798.4	2497.3	651.8	550.7	517.6	489.7	440.9	423.5	411.3	406.1
55°	8673.6	7061.6	2302.2	517.6	458.3	451.4	461.8	421.7	411.3	392.1	385.1
57.5°	8175.2	6343.6	1788.0	400.8	386.9	413.0	446.1	402.6	376.4	359.0	352.0
60°	5752.8	4217.4	899.3	322.4	345.1	386.9	420.0	364.2	338.1	341.6	338.1
62.5°	3171.8	2110.5	404.3	270.1	299.8	341.6	359.0	315.4	298.0	327.6	332.9
65°	1036.9	718.0	233.5	209.1	237.0	278.8	310.2	299.8	296.3	331.1	341.6
67.5°	318.9	237.0	158.6	149.9	163.8	205.6	261.4	324.1	348.5	359.0	364.2
70°	238.8	186.5	135.9	127.2	134.2	156.8	221.3	270.1	254.4	256.2	252.7
72.5°	191.7	148.1	116.8	111.5	111.5	108.0	116.8	146.4	165.6	174.3	174.3
75°	134.2	104.6	88.9	81.9	64.5	52.3	47.1	47.1	41.8	40.1	38.3
77.5°	45.3	38.3	34.9	27.9	19.2	15.7	13.9	12.2	8.7	5.2	3.5
80°	7.0	5.2	3.5	3.5	3.5	1.7	1.7	1.7	0.0	0.0	0.0
82.5°	3.5	3.5	3.5	3.5	3.5	1.7	1.7	0.0	0.0	0.0	0.0
85°	3.5	3.5	3.5	3.5	3.5	1.7	1.7	0.0	0.0	0.0	0.0
87.5°	3.5	3.5	3.5	3.5	1.7	1.7	1.7	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)