

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: P641745

Luminaire Tested: GWS-SA6B-740-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641745  
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-SA6B-740-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

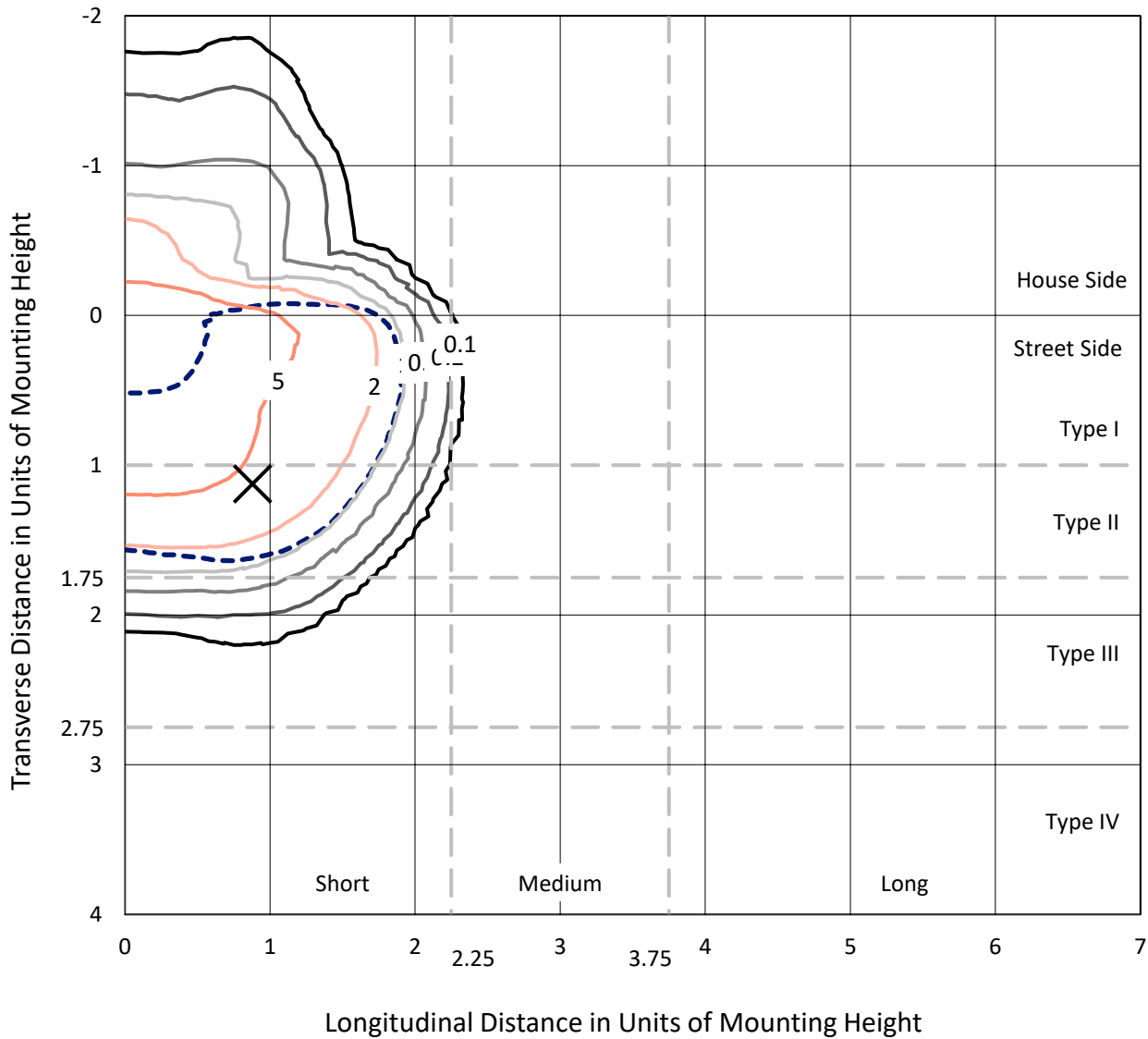
Lumens per Lamp: N/A  
Luminaire Lumens: 13279.2 lumens  
Efficiency: N/A  
Efficacy: 95.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 138.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

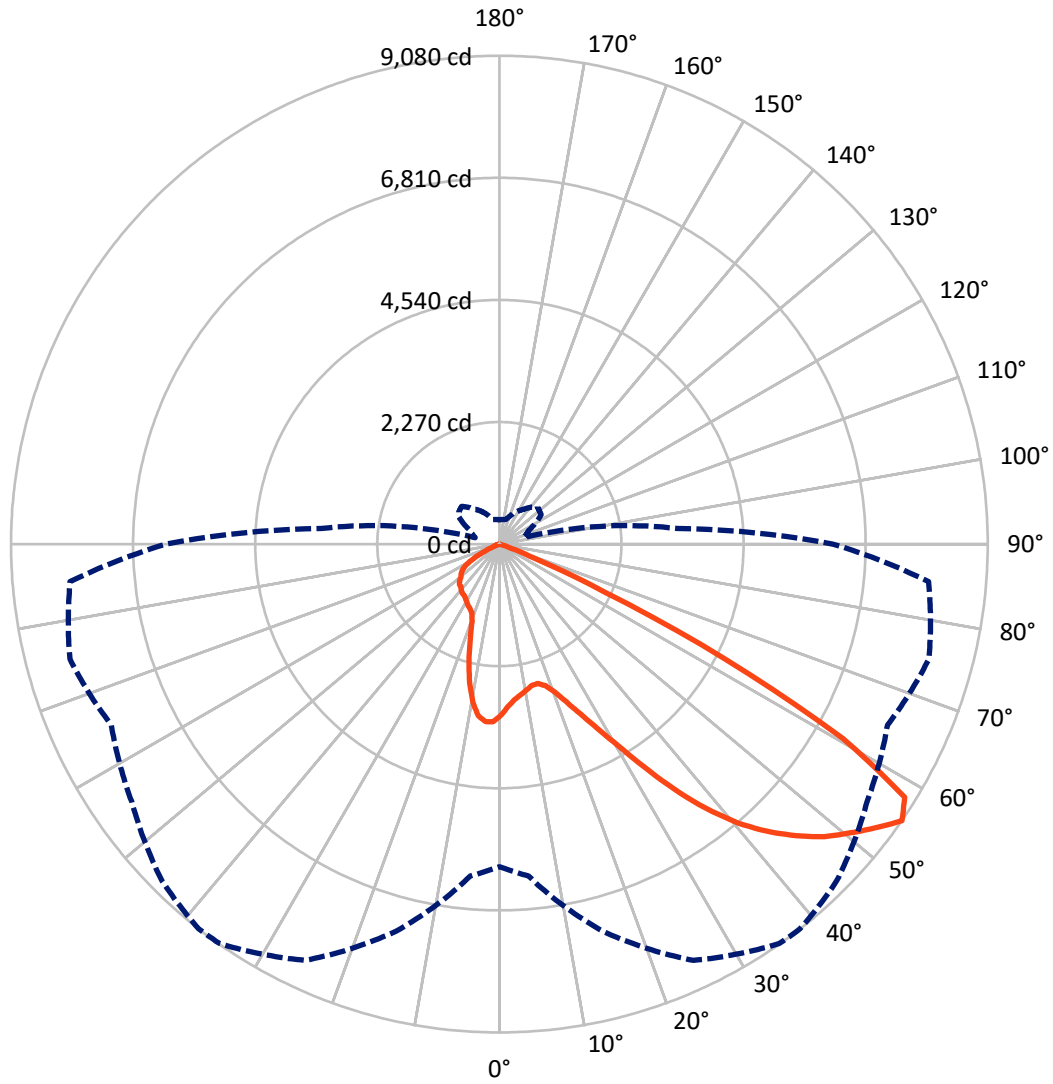
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.3 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	2587.2	0.0	2587.2
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	10692.0	0.0	10692.0
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	13279.2	0.0	13279.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.4	2.2
10°-20°	792.7	6.0
20°-30°	1360.3	10.2
30°-40°	2256.1	17.0
40°-50°	3316.6	25.0
50°-60°	3875.5	29.2
60°-70°	1313.7	9.9
70°-80°	67.2	0.5
80°-90°	2.6	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°	13279.2	100.0
0°-180°	13279.2	100.0

**Coefficient of Utilization**



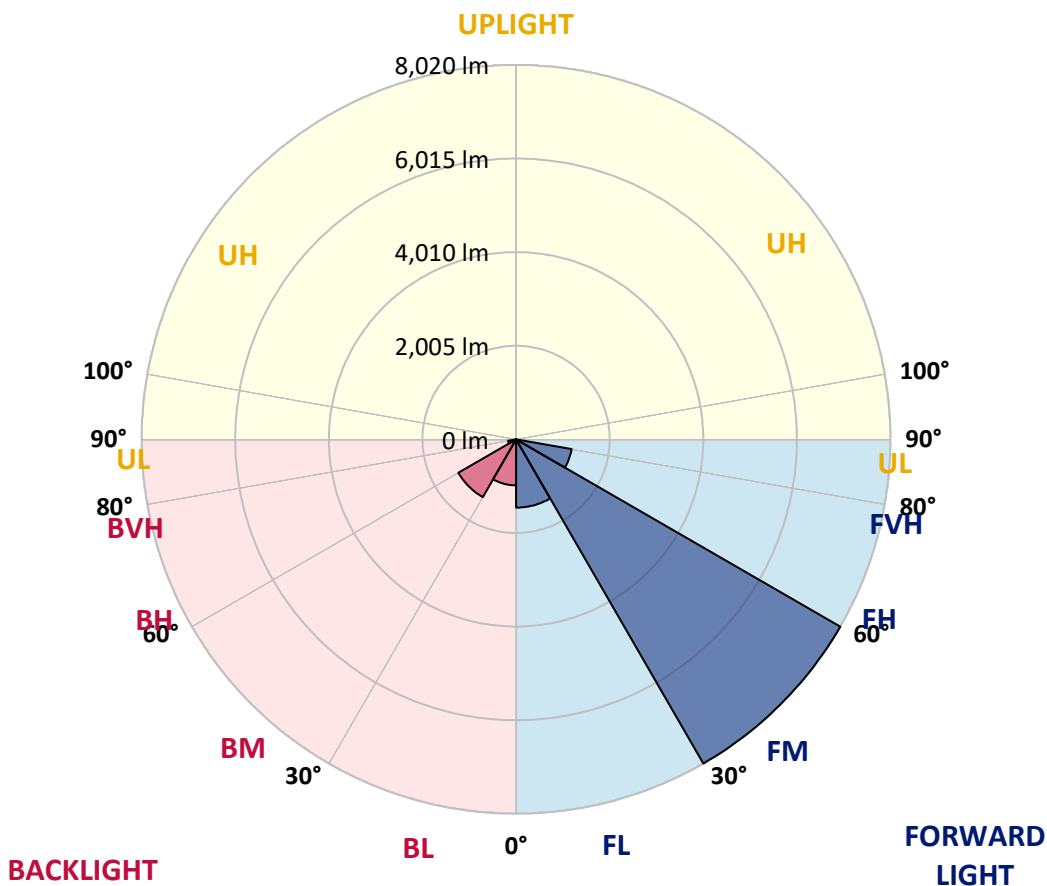
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1461.7	11.0			
FM (30°-60°)	8020.3	60.4			
FH (60°-80°)	1208.6	9.1			G1/1800
FVH (80°-90°)	1.4	0.0			G0/10
BL (0°-30°)	985.7	7.4	B2/1000		
BM (30°-60°)	1428.0	10.8	B2/2500		
BH (60°-80°)	172.2	1.3	B1/500		G1/500
BVH (80°-90°)	1.2	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°	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5
2.5°	2965.9	2959.8	2972.0	2996.2	3019.0	3026.6	3049.4	3081.2	3101.0	3148.0	3186.0
5°	2832.3	2829.3	2841.4	2862.7	2893.0	2903.7	2938.6	2991.7	3044.8	3126.8	3207.2
7.5°	2710.9	2709.4	2727.6	2774.6	2818.7	2832.3	2874.8	2940.1	3011.4	3137.4	3255.8
10°	2551.5	2553.0	2587.9	2654.7	2735.2	2762.5	2830.8	2924.9	3017.5	3179.9	3343.8
12.5°	2499.9	2502.9	2521.2	2572.8	2660.8	2695.7	2791.3	2934.0	3052.4	3240.6	3457.7
15°	2625.9	2625.9	2610.7	2616.8	2656.2	2688.1	2788.3	2964.4	3111.6	3313.5	3570.0
17.5°	2870.3	2861.2	2823.2	2771.6	2757.9	2768.6	2849.0	3029.6	3195.1	3398.5	3697.5
20°	3201.2	3204.2	3129.8	3022.0	2935.5	2934.0	2982.6	3145.0	3315.0	3500.2	3835.6
22.5°	3601.9	3589.7	3491.1	3343.8	3193.6	3181.4	3201.2	3321.1	3488.0	3661.1	4005.6
25°	4066.3	4060.3	3920.6	3723.3	3524.5	3495.6	3495.6	3614.0	3735.4	3890.3	4209.0
27.5°	4552.0	4552.0	4416.9	4189.3	3925.2	3873.6	3866.0	4005.6	4086.1	4116.4	4380.5
30°	5051.4	5045.3	4911.8	4678.0	4395.7	4342.6	4321.3	4424.5	4482.2	4391.1	4594.5
32.5°	5558.4	5569.0	5433.9	5216.9	4964.9	4930.0	4864.7	4864.7	4911.8	4784.3	4931.5
35°	6103.3	6100.2	5994.0	5846.8	5631.2	5591.8	5484.0	5315.5	5386.9	5330.7	5397.5
37.5°	6584.4	6607.2	6555.6	6446.3	6271.8	6232.3	6054.7	5749.6	5804.3	5892.3	5951.5
40°	7073.2	7091.4	7143.0	7108.1	6888.0	6815.2	6499.4	5998.6	6059.3	6361.3	6531.3
42.5°	7552.8	7561.9	7666.7	7724.3	7429.9	7302.4	6836.4	6150.3	6214.1	6728.6	7026.1
45°	7857.9	7877.7	8050.7	8226.8	7908.0	7733.5	7129.4	6344.6	6371.9	6983.6	7391.9
47.5°	7845.8	7891.3	8216.1	8536.4	8319.3	8131.1	7481.5	6655.8	6610.2	7223.5	7633.3
50°	7601.4	7656.0	8122.0	8630.5	8615.3	8440.8	7873.1	7106.6	6963.9	7436.0	7663.6
52.5°	7094.4	7252.3	7956.6	8642.7	8853.6	8765.6	8357.3	7713.7	7442.0	7741.0	7712.2
55°	5998.6	6192.8	7454.2	8539.4	9069.2	9079.8	8865.8	8346.7	7961.1	8266.2	8011.2
57.5°	4553.6	4708.4	5737.5	7601.4	8712.5	8887.0	9063.1	8680.6	8281.4	8624.4	8081.0
60°	2744.3	2923.4	3592.8	5578.1	7036.8	7334.3	8024.9	7950.5	7469.4	7616.6	6626.9
62.5°	1112.6	1206.7	1659.0	3073.7	4429.1	4706.9	5368.6	5481.0	5362.6	5212.3	4019.3
65°	406.8	444.7	664.8	1270.4	2037.0	2138.7	2487.8	2686.6	2850.5	2427.0	1495.1
67.5°	252.0	276.2	432.6	652.7	740.7	689.1	701.2	836.3	798.4	493.3	267.1
70°	186.7	206.4	338.5	452.3	299.0	230.7	156.3	167.0	150.3	132.1	130.5
72.5°	129.0	147.2	253.5	267.1	115.4	82.0	57.7	80.4	91.1	89.6	92.6
75°	85.0	98.7	159.4	104.7	28.8	22.8	19.7	42.5	54.6	54.6	56.2
77.5°	50.1	57.7	56.2	21.2	6.1	6.1	4.6	7.6	12.1	13.7	16.7
80°	6.1	4.6	3.0	3.0	3.0	3.0	3.0	3.0	4.6	4.6	4.6
82.5°	1.5	1.5	1.5	3.0	3.0	3.0	3.0	3.0	3.0	4.6	4.6
85°	0.0	0.0	1.5	1.5	3.0	3.0	3.0	3.0	3.0	4.6	4.6
87.5°	0.0	0.0	1.5	1.5	3.0	3.0	3.0	3.0	3.0	4.6	4.6
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°	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5
2.5°	3214.8	3204.2	3248.2	3280.1	3305.9	3318.0	3301.3	3299.8	3299.8	3266.4	3257.3
5°	3252.8	3257.3	3319.5	3346.9	3351.4	3336.2	3298.3	3272.5	3257.3	3222.4	3202.7
7.5°	3325.6	3340.8	3400.0	3395.4	3354.5	3284.6	3184.5	3107.0	3057.0	3002.3	2968.9
10°	3430.3	3459.2	3495.6	3431.9	3301.3	3123.7	2917.3	2770.1	2682.0	2619.8	2581.9
12.5°	3557.8	3586.7	3574.5	3424.3	3152.6	2835.3	2569.7	2357.2	2255.5	2199.4	2159.9
15°	3686.9	3705.1	3626.1	3333.2	2890.0	2463.5	2167.5	1956.5	1832.0	1786.5	1753.1
17.5°	3818.9	3814.4	3635.3	3154.1	2539.4	2044.5	1753.1	1608.9	1574.0	1566.4	1563.4
20°	3957.0	3916.1	3598.8	2897.6	2117.4	1630.2	1464.7	1473.8	1537.6	1567.9	1574.0
22.5°	4114.9	4011.7	3507.8	2550.0	1686.3	1358.5	1375.2	1464.7	1551.2	1592.2	1598.3
25°	4283.4	4099.7	3356.0	2103.7	1329.6	1249.2	1347.9	1451.1	1543.7	1593.7	1599.8
27.5°	4394.2	4121.0	3107.0	1654.5	1141.4	1206.7	1311.4	1410.1	1505.7	1560.4	1567.9
30°	4514.1	4111.9	2768.6	1275.0	1077.7	1170.3	1261.3	1350.9	1438.9	1499.6	1505.7
32.5°	4690.2	4105.8	2355.7	1035.2	1051.9	1141.4	1208.2	1282.6	1343.3	1378.2	1373.7
35°	4920.9	4098.2	1874.5	933.5	1036.7	1118.7	1171.8	1206.7	1139.9	1118.7	1123.2
37.5°	5216.9	4116.4	1469.3	891.0	1032.1	1112.6	1158.1	1057.9	954.7	915.3	909.2
40°	5544.7	4163.5	1120.2	874.3	1047.3	1127.8	1106.5	941.1	813.6	736.2	719.5
42.5°	5874.1	4215.1	886.4	868.2	1073.1	1170.3	1021.5	856.1	664.8	620.8	614.7
45°	6118.5	4206.0	766.5	857.6	1095.9	1194.5	998.7	734.6	593.5	573.7	575.3
47.5°	6241.4	4105.8	701.2	833.3	1105.0	1170.3	942.6	684.6	544.9	566.2	584.4
50°	6176.1	3846.2	640.5	786.2	1085.3	1138.4	853.0	646.6	520.6	608.7	649.6
52.5°	6097.2	3527.5	573.7	713.4	1038.2	1094.4	818.1	636.0	505.4	587.4	617.8
55°	6201.9	3325.6	464.5	601.1	945.6	991.2	790.8	634.5	470.5	456.9	452.3
57.5°	6054.7	2923.4	332.4	432.6	725.5	784.7	771.1	623.8	417.4	415.9	422.0
60°	4679.5	1783.5	227.7	274.7	444.7	500.9	699.7	596.5	359.7	330.9	332.4
62.5°	2659.3	758.9	156.3	170.0	227.7	270.2	534.3	541.9	332.4	315.7	332.4
65°	925.9	271.7	121.4	113.8	126.0	144.2	306.6	418.9	302.1	273.2	276.2
67.5°	191.2	135.1	107.8	94.1	94.1	94.1	156.3	261.1	248.9	217.1	220.1
70°	121.4	115.4	94.1	80.4	77.4	71.3	89.6	144.2	171.5	157.9	159.4
72.5°	89.6	88.0	74.4	65.3	57.7	51.6	56.2	71.3	88.0	91.1	92.6
75°	54.6	56.2	48.6	41.0	36.4	31.9	33.4	33.4	33.4	30.4	33.4
77.5°	16.7	18.2	15.2	12.1	10.6	10.6	10.6	9.1	7.6	4.6	4.6
80°	4.6	4.6	4.6	4.6	4.6	3.0	3.0	1.5	1.5	0.0	0.0
82.5°	4.6	4.6	4.6	4.6	3.0	3.0	1.5	1.5	0.0	0.0	0.0
85°	4.6	4.6	4.6	4.6	3.0	3.0	1.5	1.5	0.0	0.0	0.0
87.5°	4.6	4.6	4.6	4.6	3.0	3.0	1.5	1.5	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)