

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: P638708

Luminaire Tested: GWS-SA4F-735-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638708  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4F-735-U-T2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

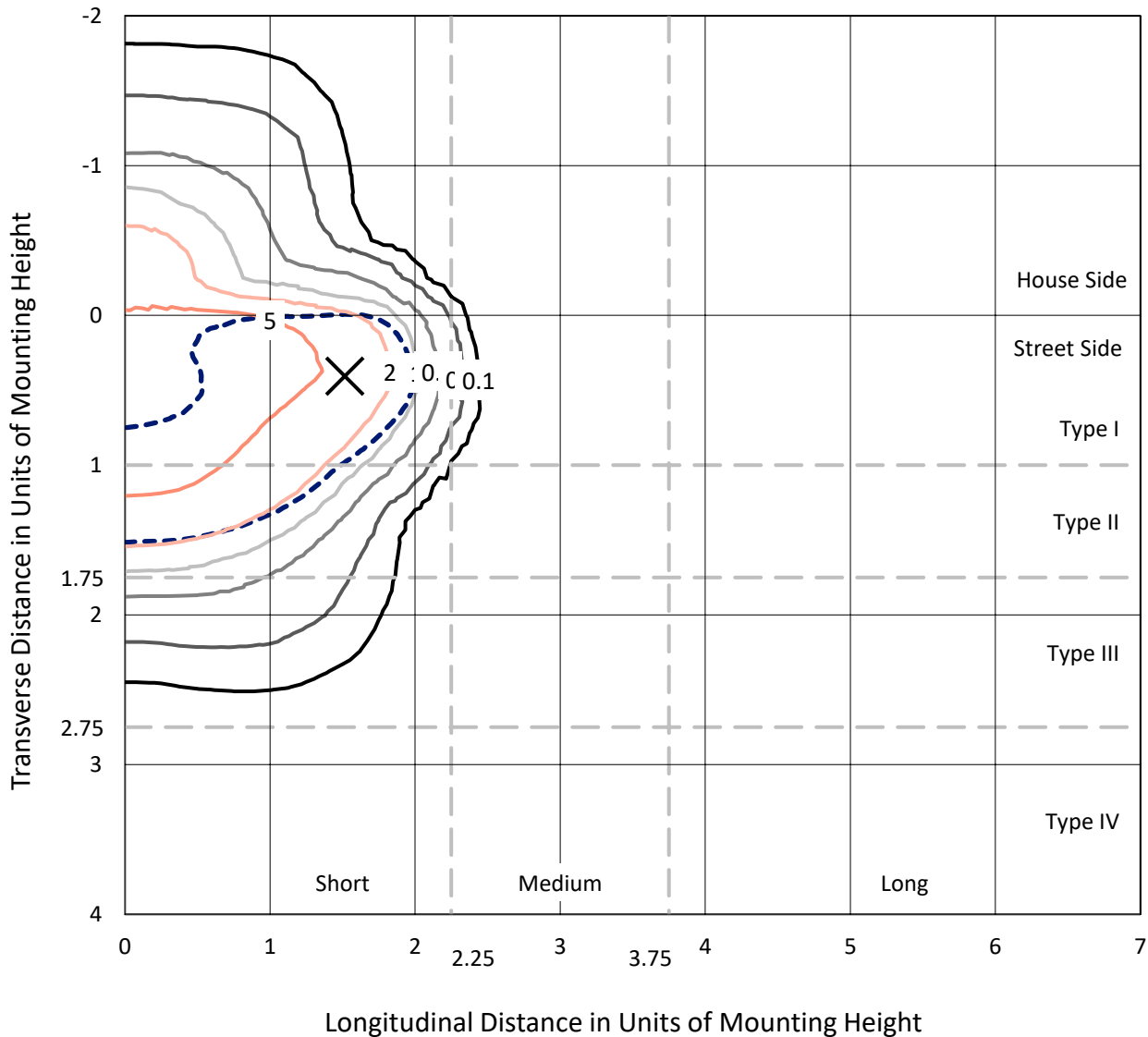
Lumens per Lamp: N/A  
Luminaire Lumens: 19933.6 lumens  
Efficiency: N/A  
Efficacy: 88.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

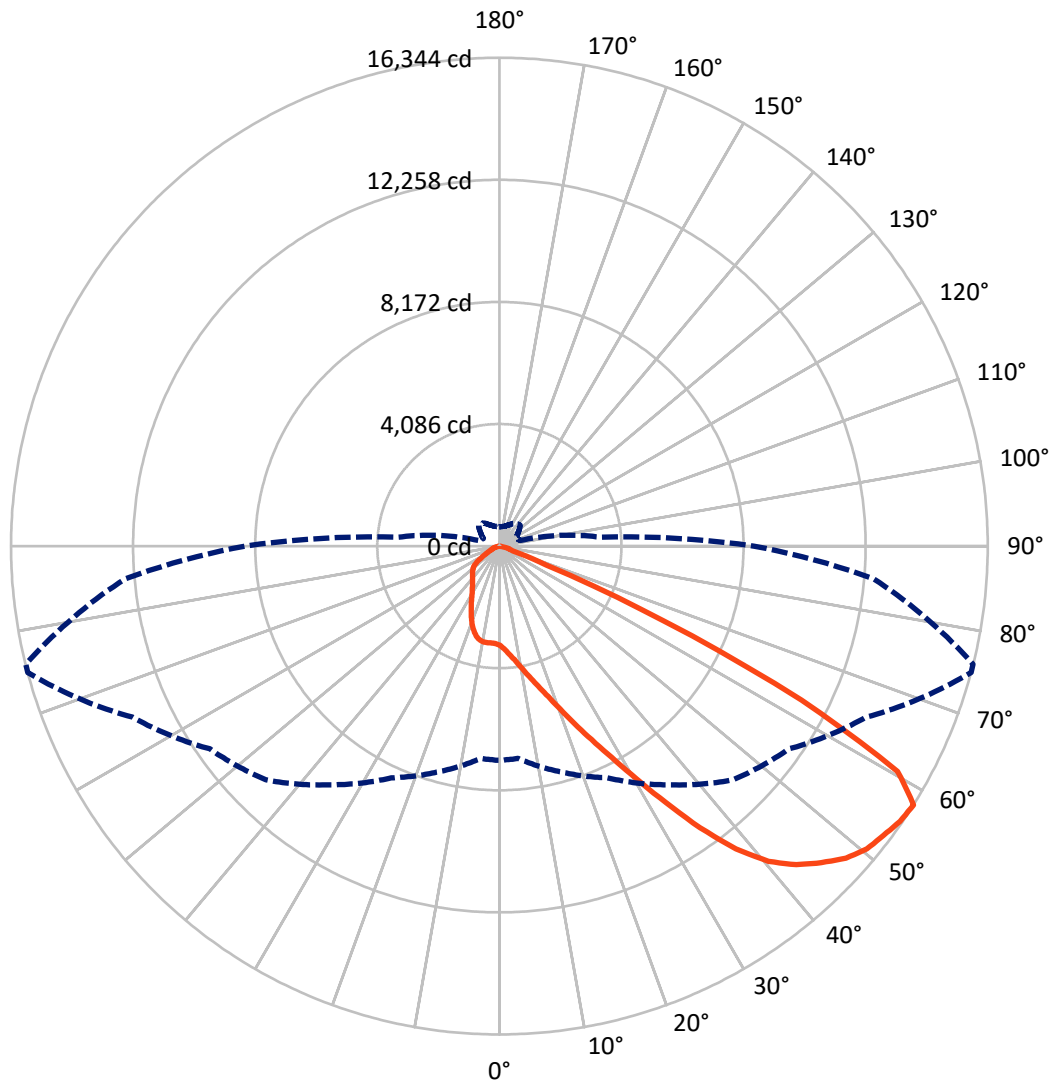
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3256.1	0.0	3256.1
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	16677.5	0.0	16677.5
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	19933.6	0.0	19933.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	338.3	1.7
10°-20°	1099.0	5.5
20°-30°	2012.5	10.1
30°-40°	3338.9	16.8
40°-50°	5099.3	25.6
50°-60°	5730.0	28.7
60°-70°	2113.5	10.6
70°-80°	202.0	1.0
80°-90°	0.2	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°	19933.6	100.0
0°-180°	19933.6	100.0

**Coefficient of Utilization**



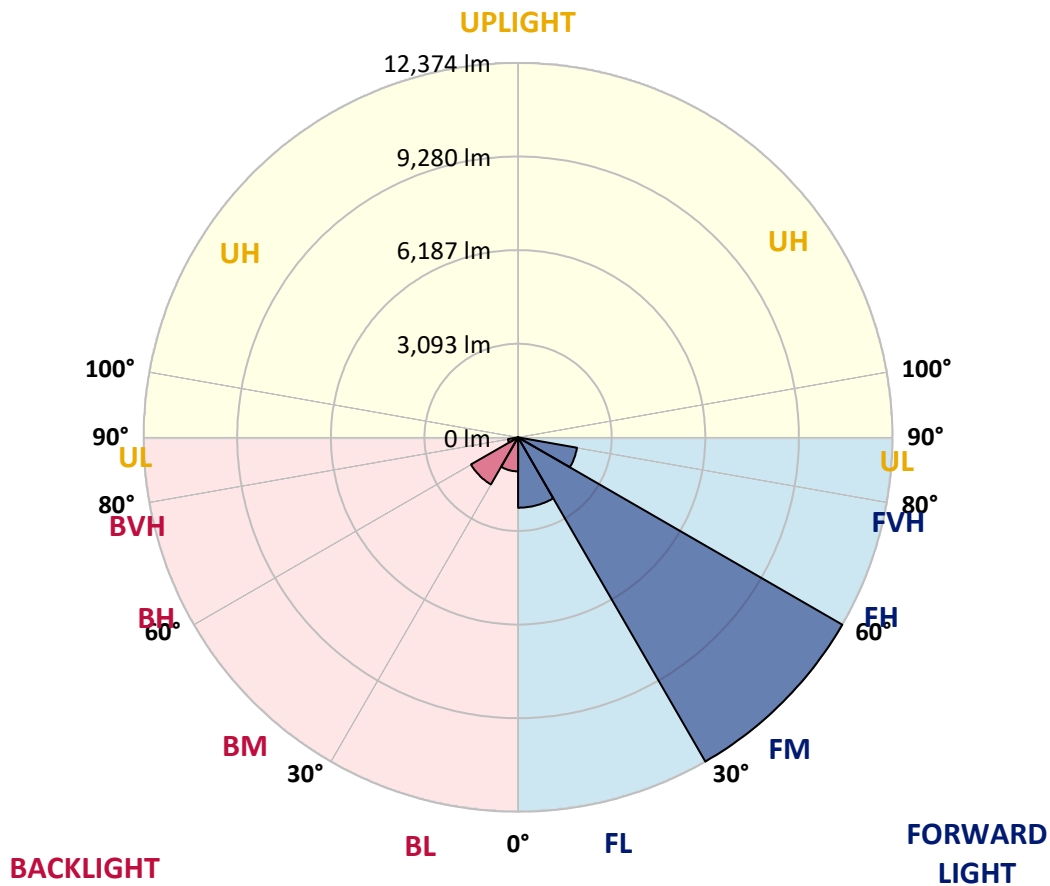
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2326.2	11.7			
FM (30°-60°)	12373.8	62.1			
FH (60°-80°)	1977.3	9.9			G2/5000
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	1123.6	5.6	B3/2500		
BM (30°-60°)	1794.3	9.0	B2/2500		
BH (60°-80°)	338.1	1.7	B1/500		G1/500
BVH (80°-90°)	0.1	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°	55°	65°	75°	76°	85°
0°	3324.6	3324.6	3324.6	3324.6	3324.6	3324.6	3324.6	3324.6	3324.6	3324.6	3324.6
2.5°	3714.4	3752.9	3740.8	3716.8	3702.3	3651.8	3620.5	3529.1	3464.2	3457.0	3396.8
5°	4183.5	4176.3	4166.6	4137.8	4113.7	4034.3	3940.5	3786.5	3649.4	3632.6	3505.1
7.5°	4440.9	4445.7	4450.5	4445.7	4428.9	4368.7	4265.3	4084.8	3875.5	3861.1	3659.0
10°	4546.7	4556.4	4580.4	4626.1	4667.0	4662.2	4602.1	4416.8	4159.4	4135.4	3863.5
12.5°	4597.3	4609.3	4647.8	4734.4	4845.0	4931.6	4941.3	4775.3	4491.4	4452.9	4106.5
15°	4667.0	4679.0	4727.2	4840.2	5001.4	5172.2	5282.9	5177.0	4859.5	4818.6	4373.5
17.5°	4698.3	4715.1	4784.9	4934.0	5143.3	5405.6	5655.7	5646.1	5294.9	5263.6	4683.9
20°	4758.4	4770.5	4833.0	4994.2	5246.8	5624.5	6045.5	6197.0	5826.6	5780.8	5059.1
22.5°	4948.5	4953.3	4982.2	5083.2	5319.0	5783.2	6442.4	6839.3	6454.4	6394.3	5480.1
25°	5258.8	5256.4	5268.4	5285.3	5458.5	5944.4	6824.9	7563.5	7173.7	7108.8	5956.5
27.5°	5653.3	5653.3	5682.2	5634.1	5703.9	6144.1	7202.6	8395.8	8010.9	7919.5	6478.5
30°	6117.6	6115.2	6182.6	6105.6	6127.3	6459.2	7609.2	9302.8	9021.3	8908.2	7079.9
32.5°	6747.9	6733.5	6810.5	6704.6	6632.5	6935.6	8104.7	10250.6	10231.3	10058.1	7835.3
35°	7544.2	7520.1	7544.2	7440.8	7310.9	7601.9	8754.3	11196.0	11573.7	11390.9	8735.0
37.5°	8335.7	8412.7	8439.1	8261.1	8155.2	8446.3	9536.1	12042.8	12855.9	12665.9	9670.8
40°	9269.1	9245.0	9336.4	9136.8	9069.4	9391.8	10301.1	12673.1	13871.1	13690.7	10503.2
42.5°	9957.1	10000.4	10113.5	10002.8	9949.9	10253.0	10943.4	13041.2	14576.0	14398.0	11097.4
45°	10782.2	10813.5	10856.8	10765.4	10710.1	11008.4	11407.7	13202.4	15112.5	14920.0	11496.7
47.5°	11674.8	11698.8	11698.8	11511.2	11333.1	11455.8	11718.1	13293.8	15605.6	15420.4	11792.6
50°	12314.7	12326.7	12432.5	12300.2	11912.9	11722.9	11860.0	13382.8	15932.8	15759.6	11888.9
52.5°	11746.9	11732.5	12081.3	12355.6	12459.0	12081.3	12105.4	13512.7	16091.6	15942.4	11965.8
55°	9892.1	9868.1	10358.8	11025.2	11937.0	12420.5	12401.3	13589.7	16267.2	16175.8	12244.9
57.5°	7171.3	7130.4	7813.6	8554.6	9750.2	11061.3	11831.1	13546.4	16344.2	16337.0	12569.7
60°	4311.0	4277.3	4922.0	5701.5	6625.2	7943.5	9221.0	12134.2	15314.5	15329.0	11725.3
62.5°	2653.5	2684.7	3266.9	3663.8	4007.9	4404.8	5143.3	8162.5	11345.2	11439.0	8239.4
65°	1785.0	1809.1	2347.9	2848.3	2848.3	2328.7	1999.1	3902.0	6052.7	5893.9	3897.2
67.5°	1198.0	1224.5	1650.3	2234.9	2319.1	1623.8	810.7	1164.3	1686.4	1635.9	964.7
70°	704.9	733.7	1099.4	1532.4	1688.8	1130.7	541.3	493.2	478.7	464.3	375.3
72.5°	315.1	327.2	560.5	779.4	712.1	476.3	382.5	394.5	372.9	365.7	305.5
75°	96.2	101.0	144.3	168.4	170.8	170.8	230.9	310.3	293.5	295.9	235.8
77.5°	24.1	24.1	38.5	36.1	19.2	16.8	43.3	69.8	72.2	65.0	48.1
80°	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.4	2.4	2.4	2.4
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°	3324.6	3324.6	3324.6	3324.6	3324.6	3324.6	3324.6	3324.6	3324.6	3324.6	3324.6
2.5°	3370.4	3307.8	3266.9	3209.2	3168.3	3125.0	3086.5	3055.2	3038.4	3033.6	3036.0
5°	3447.3	3348.7	3252.5	3141.8	3064.8	2992.7	2934.9	2889.2	2867.6	2860.4	2860.4
7.5°	3565.2	3428.1	3257.3	3084.1	2954.2	2841.1	2773.7	2723.2	2704.0	2699.2	2684.7
10°	3719.2	3531.5	3250.1	2980.6	2797.8	2679.9	2631.8	2617.4	2624.6	2627.0	2624.6
12.5°	3904.4	3639.8	3204.4	2829.1	2631.8	2559.6	2564.5	2602.9	2646.2	2667.9	2672.7
15°	4101.7	3738.4	3100.9	2648.7	2489.9	2487.5	2557.2	2646.2	2730.4	2766.5	2776.2
17.5°	4323.0	3817.8	2942.1	2456.2	2367.2	2437.0	2562.0	2699.2	2812.2	2872.4	2884.4
20°	4566.0	3882.8	2740.1	2275.8	2258.9	2384.0	2557.2	2725.6	2865.2	2932.5	2944.5
22.5°	4818.6	3928.5	2506.7	2109.8	2160.3	2323.9	2511.5	2675.1	2807.4	2884.4	2894.0
25°	5107.3	3933.3	2268.6	1970.3	2068.9	2242.1	2400.9	2535.6	2646.2	2713.6	2720.8
27.5°	5359.9	3875.5	2056.9	1857.2	1984.7	2141.1	2246.9	2321.5	2398.5	2437.0	2439.4
30°	5650.9	3774.5	1857.2	1765.8	1898.1	2016.0	2068.9	2085.7	2092.9	2100.2	2090.5
32.5°	5997.4	3651.8	1708.0	1676.8	1799.4	1878.8	1893.3	1859.6	1818.7	1761.0	1746.5
35°	6423.2	3541.2	1585.3	1590.2	1691.2	1739.3	1727.3	1655.1	1575.7	1506.0	1493.9
37.5°	6885.1	3447.3	1491.5	1506.0	1573.3	1607.0	1570.9	1491.5	1455.4	1395.3	1397.7
40°	7294.0	3370.4	1407.3	1421.8	1453.0	1484.3	1426.6	1373.6	1441.0	1436.2	1441.0
42.5°	7585.1	3305.4	1335.2	1327.9	1349.6	1371.2	1327.9	1301.5	1414.5	1383.3	1400.1
45°	7755.9	3245.3	1275.0	1231.7	1265.4	1303.9	1275.0	1241.3	1279.8	1135.5	1123.5
47.5°	7871.4	3211.6	1222.1	1137.9	1198.0	1265.4	1205.2	1123.5	1068.1	943.0	933.4
50°	7883.4	3194.7	1159.5	1041.7	1118.6	1190.8	1121.0	1008.0	928.6	873.3	866.0
52.5°	7946.0	3228.4	1072.9	919.0	1003.2	1118.6	1070.5	957.5	849.2	801.1	791.5
55°	8225.0	3370.4	928.6	750.6	873.3	1063.3	1029.6	854.0	750.6	721.7	714.5
57.5°	8513.7	3399.2	731.3	594.2	760.2	983.9	940.6	786.7	685.6	651.9	644.7
60°	7784.8	2800.2	548.5	490.8	671.2	909.3	870.9	745.8	627.9	587.0	579.8
62.5°	5114.5	1513.2	435.4	416.2	565.3	769.8	793.9	673.6	560.5	517.2	514.8
65°	2357.6	702.5	334.4	329.6	442.6	613.4	683.2	589.4	473.9	435.4	435.4
67.5°	642.3	348.8	262.2	243.0	300.7	411.4	498.0	440.2	336.8	291.1	288.7
70°	320.0	281.5	235.8	209.3	216.5	255.0	293.5	245.4	170.8	139.5	137.1
72.5°	262.2	230.9	199.7	178.0	163.6	156.4	151.6	122.7	79.4	60.1	57.7
75°	194.9	166.0	141.9	115.5	98.6	91.4	81.8	60.1	33.7	19.2	16.8
77.5°	43.3	40.9	38.5	28.9	26.5	21.7	16.8	12.0	4.8	0.0	0.0
80°	2.4	2.4	2.4	2.4	2.4	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)