

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: P640250

Luminaire Tested: GWS-SA5D-740-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640250  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-740-U-T2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

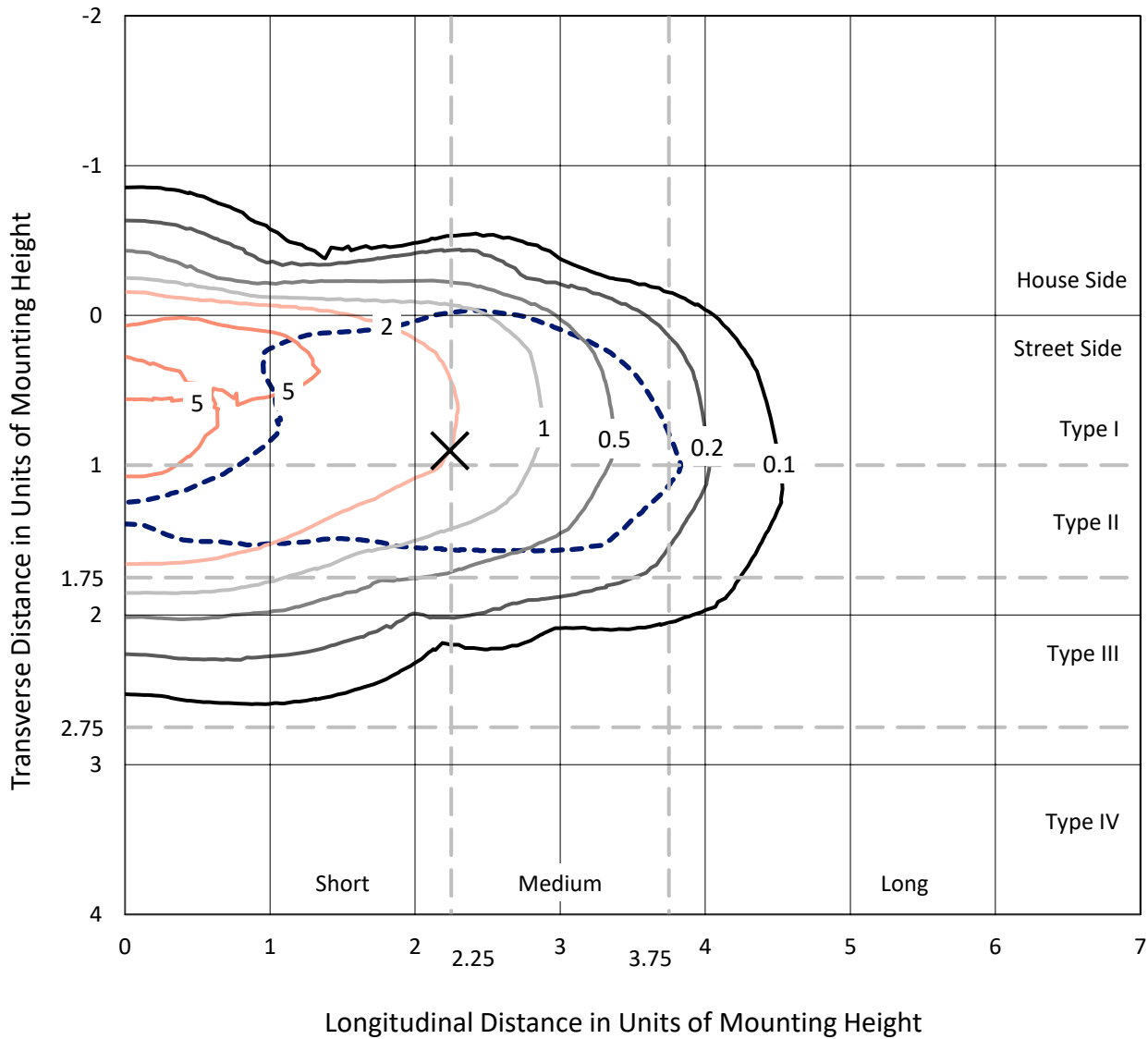
Lumens per Lamp: N/A  
Luminaire Lumens: 22502.4 lumens  
Efficiency: N/A  
Efficacy: 110.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

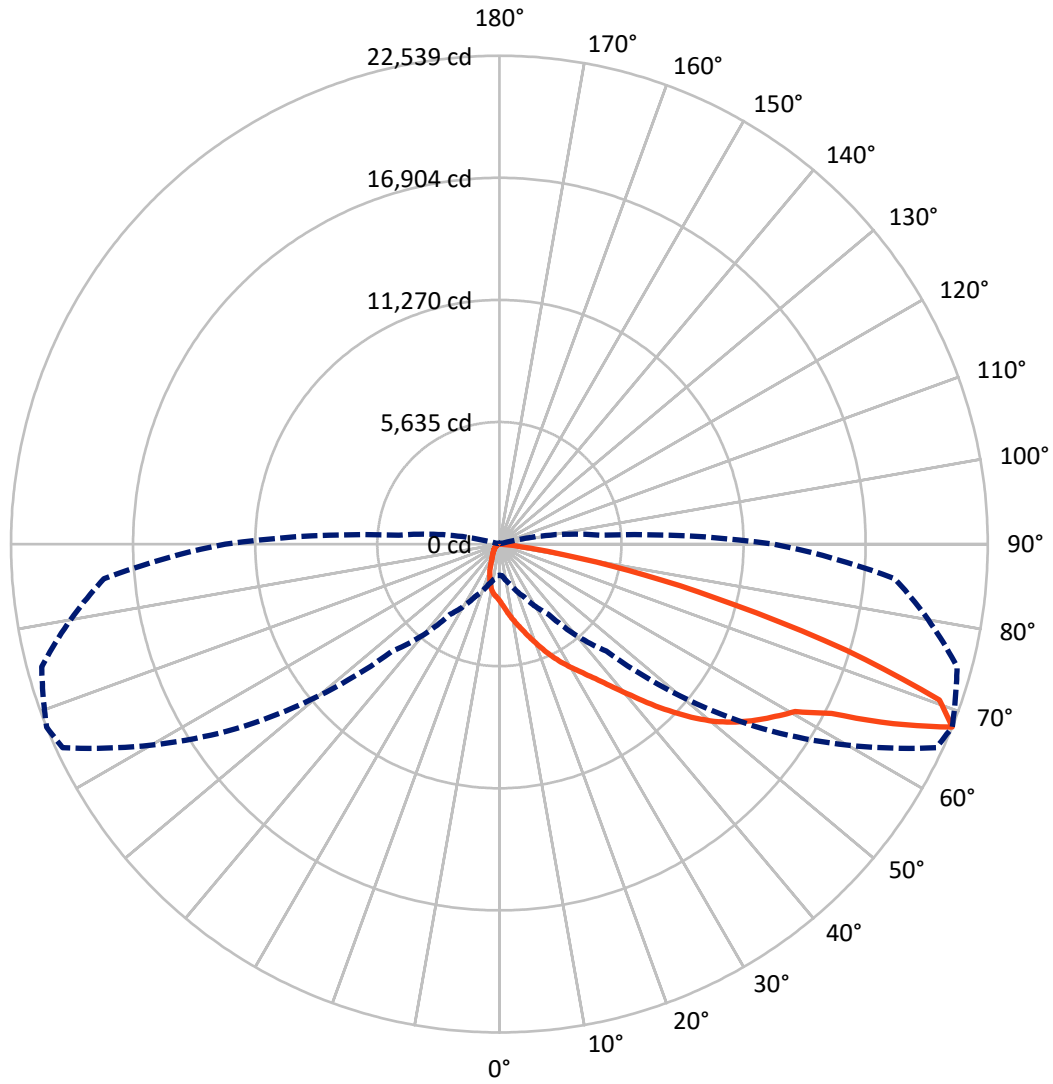
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1624.9	0.0	1624.9
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	20877.5	0.0	20877.5
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	22502.4	0.0	22502.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	255.4	1.1
10°-20°	733.4	3.3
20°-30°	1260.4	5.6
30°-40°	2191.4	9.7
40°-50°	3823.8	17.0
50°-60°	5767.2	25.6
60°-70°	5783.0	25.7
70°-80°	2551.5	11.3
80°-90°	136.3	0.6
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°	22502.4	100.0
0°-180°	22502.4	100.0

**Coefficient of Utilization**

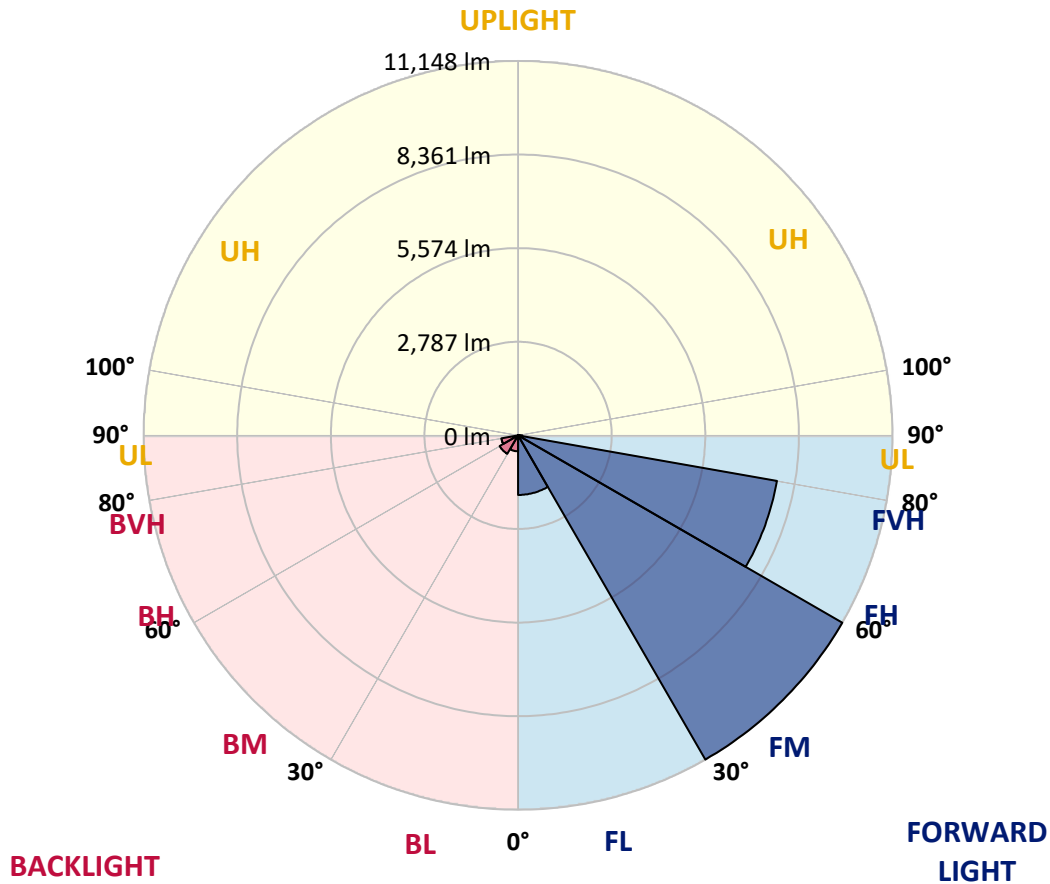


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1773.9	7.9			
FM (30°-60°)	11147.6	49.5			
FH (60°-80°)	7827.4	34.8			G4/12000
FVH (80°-90°)	128.6	0.6			G2/225
BL (0°-30°)	475.4	2.1	B1/500		
BM (30°-60°)	634.7	2.8	B1/1000		
BH (60°-80°)	507.1	2.3	B2/1000		G2/1000
BVH (80°-90°)	7.7	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-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7
2.5°	3049.4	3068.8	3049.4	3053.7	2997.7	2971.9	2915.9	2838.4	2819.0	2769.5	2694.1
5°	3422.0	3439.2	3419.8	3415.5	3350.9	3303.5	3210.9	3077.4	3038.6	2941.7	2793.1
7.5°	3624.4	3635.2	3641.6	3652.4	3628.7	3590.0	3506.0	3340.1	3299.2	3142.0	2933.1
10°	3645.9	3654.6	3686.9	3751.5	3798.8	3822.5	3775.2	3622.3	3557.7	3404.8	3105.4
12.5°	3585.6	3598.6	3650.3	3757.9	3889.3	4009.9	4040.0	3906.5	3848.4	3652.4	3307.8
15°	3506.0	3516.7	3587.8	3734.2	3932.4	4154.2	4279.1	4220.9	4156.3	3951.7	3531.8
17.5°	3383.2	3398.3	3497.4	3695.5	3951.7	4268.3	4537.5	4556.9	4511.7	4289.9	3779.5
20°	3314.3	3325.1	3413.4	3618.0	3938.8	4352.3	4778.7	4961.8	4912.2	4679.6	4063.7
22.5°	3372.4	3381.1	3439.2	3598.6	3895.8	4399.7	5002.7	5366.6	5338.6	5097.4	4363.1
25°	3678.2	3706.2	3671.8	3699.8	3915.1	4425.5	5183.6	5771.5	5778.0	5534.6	4673.2
27.5°	4298.5	4261.9	4180.0	4040.0	4065.9	4494.4	5338.6	6152.7	6208.7	5961.0	4948.8
30°	4929.5	4907.9	4858.4	4640.9	4460.0	4647.3	5470.0	6542.5	6630.8	6380.9	5194.3
32.5°	5638.0	5659.5	5571.2	5310.6	5002.7	4957.5	5605.7	6912.9	7078.7	6856.9	5482.9
35°	6484.3	6490.8	6316.3	6027.8	5678.9	5470.0	5849.0	7322.0	7627.8	7464.2	5868.4
37.5°	7309.1	7347.9	7253.1	6798.7	6488.6	6107.4	6251.7	7847.5	8278.2	8213.6	6352.9
40°	8039.2	8099.5	8069.3	7630.0	7223.0	6902.1	6876.3	8463.4	9064.3	9137.5	6992.6
42.5°	8620.6	8659.4	8683.1	8370.8	8011.2	7830.3	7647.2	9178.4	9992.4	10291.8	7776.4
45°	9234.4	9247.3	9296.8	9085.8	8771.4	8786.5	8558.2	10046.3	10970.1	11571.0	8676.6
47.5°	10016.1	10059.2	10035.5	9813.7	9529.4	9699.6	9499.3	10940.0	11934.9	12936.3	9598.3
50°	10968.0	11013.2	10991.7	10733.3	10416.7	10487.8	10362.8	11807.9	12865.3	14224.1	10365.0
52.5°	11459.0	11495.6	11762.6	11878.9	11713.1	11260.9	11099.4	12761.9	13651.3	15283.7	11069.2
55°	11222.1	11248.0	11829.4	12320.4	12927.7	12475.5	11840.2	13498.4	14344.7	16110.6	11592.5
57.5°	10240.1	10380.1	11170.4	12001.7	13278.7	13675.0	13041.9	14299.5	15012.3	16685.6	12107.2
60°	8226.5	8220.1	9352.8	10845.2	12593.9	14004.5	14738.8	15382.8	15682.1	17127.1	12796.3
62.5°	4546.1	4587.0	6094.5	8060.7	10690.2	13151.7	16011.6	17254.2	17209.0	17898.1	13875.3
65°	2263.4	2345.2	3163.6	4617.2	7113.1	10868.9	16231.2	20109.8	19980.6	19713.5	16104.2
67.5°	1436.4	1468.7	1921.0	2683.3	3953.9	6986.1	14863.7	22239.6	22539.0	21867.1	18315.9
70°	930.3	984.2	1335.2	1834.8	2386.1	3600.7	10888.3	20859.2	21546.2	21630.2	16937.6
72.5°	506.1	544.8	852.8	1309.4	1722.8	1800.4	6116.1	15654.1	16758.9	18348.2	13250.7
75°	288.6	316.6	467.3	889.4	1264.1	1096.2	2711.3	10479.1	11183.3	13112.9	9495.0
77.5°	174.4	198.1	262.7	432.9	792.5	732.2	1025.1	6378.8	6826.7	7823.8	4983.3
80°	79.7	94.8	165.8	239.0	432.9	346.7	391.9	2974.0	3071.0	3210.9	1649.6
82.5°	36.6	43.1	75.4	142.1	245.5	200.3	150.7	687.0	966.9	915.3	419.9
85°	4.3	4.3	28.0	58.1	68.9	51.7	62.5	155.1	196.0	275.7	120.6
87.5°	0.0	0.0	2.2	2.2	4.3	6.5	12.9	19.4	28.0	45.2	30.1
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°	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7	2618.7
2.5°	2659.6	2599.3	2545.5	2465.8	2412.0	2351.7	2310.8	2261.2	2241.8	2226.8	2205.2
5°	2719.9	2623.0	2491.6	2345.2	2224.6	2110.5	2004.9	1936.0	1875.7	1867.1	1837.0
7.5°	2819.0	2674.7	2452.9	2213.8	2009.3	1819.7	1671.1	1550.6	1490.3	1470.9	1436.4
10°	2950.4	2752.2	2394.7	2028.6	1733.6	1507.5	1339.5	1203.8	1109.1	1074.6	1048.8
12.5°	3096.8	2823.3	2302.1	1800.4	1464.4	1206.0	992.8	848.5	788.2	766.7	747.3
15°	3264.8	2890.1	2155.7	1572.1	1201.7	887.3	736.5	674.1	648.2	641.8	635.3
17.5°	3426.3	2933.1	1981.3	1335.2	923.9	689.1	618.1	594.4	587.9	581.5	577.1
20°	3609.3	2963.3	1776.7	1111.2	717.1	583.6	549.2	531.9	519.0	506.1	503.9
22.5°	3796.7	2963.3	1554.9	891.6	600.8	523.3	484.5	452.2	428.6	415.6	411.3
25°	3975.4	2922.4	1335.2	712.8	529.8	465.2	415.6	379.0	346.7	331.6	327.3
27.5°	4102.5	2816.8	1143.5	603.0	480.2	413.5	353.2	312.3	286.4	271.3	269.2
30°	4182.2	2659.6	966.9	538.4	437.2	359.6	299.3	264.9	245.5	234.7	230.4
32.5°	4242.5	2465.8	809.7	493.2	396.3	312.3	260.6	232.6	215.4	206.7	204.6
35°	4363.1	2282.8	693.4	452.2	353.2	273.5	228.3	206.7	193.8	183.1	180.9
37.5°	4531.1	2129.9	600.8	415.6	312.3	243.4	206.7	187.4	176.6	165.8	163.7
40°	4778.7	2032.9	531.9	379.0	275.7	219.7	189.5	172.3	157.2	146.4	144.3
42.5°	5159.9	1987.7	486.7	342.4	243.4	198.1	174.4	152.9	137.8	127.1	124.9
45°	5614.3	2011.4	447.9	305.8	221.8	183.1	155.1	133.5	118.4	107.7	105.5
47.5°	6101.0	2095.4	415.6	271.3	200.3	168.0	137.8	114.1	101.2	90.4	88.3
50°	6609.2	2233.2	387.6	239.0	183.1	150.7	118.4	99.1	86.1	77.5	75.4
52.5°	7050.7	2420.6	359.6	215.4	168.0	133.5	103.4	86.1	73.2	64.6	62.5
55°	7472.8	2597.2	338.1	193.8	150.7	116.3	90.4	73.2	62.5	53.8	51.7
57.5°	7931.5	2784.5	312.3	174.4	135.7	103.4	79.7	62.5	53.8	45.2	43.1
60°	8599.1	3062.3	273.5	159.4	118.4	90.4	68.9	56.0	47.4	36.6	34.5
62.5°	9561.7	3568.4	230.4	137.8	101.2	77.5	58.1	47.4	38.8	30.1	25.8
65°	11362.1	4429.8	189.5	114.1	81.8	64.6	49.5	38.8	30.1	21.5	19.4
67.5°	12658.5	4653.8	152.9	92.6	66.8	49.5	40.9	30.1	21.5	15.1	12.9
70°	11067.1	3342.3	118.4	75.4	56.0	38.8	32.3	23.7	15.1	10.8	8.6
72.5°	8338.5	2183.7	88.3	58.1	43.1	32.3	23.7	19.4	12.9	8.6	6.5
75°	5877.0	1262.0	64.6	43.1	30.1	23.7	19.4	15.1	10.8	6.5	6.5
77.5°	3012.8	521.2	45.2	30.1	21.5	15.1	12.9	8.6	8.6	6.5	4.3
80°	915.3	172.3	25.8	19.4	15.1	10.8	6.5	6.5	6.5	4.3	2.2
82.5°	208.9	56.0	15.1	15.1	10.8	8.6	6.5	2.2	2.2	0.0	0.0
85°	53.8	17.2	12.9	10.8	10.8	8.6	4.3	2.2	0.0	0.0	0.0
87.5°	19.4	10.8	10.8	10.8	8.6	6.5	4.3	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)