

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: P640207

Luminaire Tested: GWS-SA5D-735-U-T3R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640207  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-735-U-T3R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

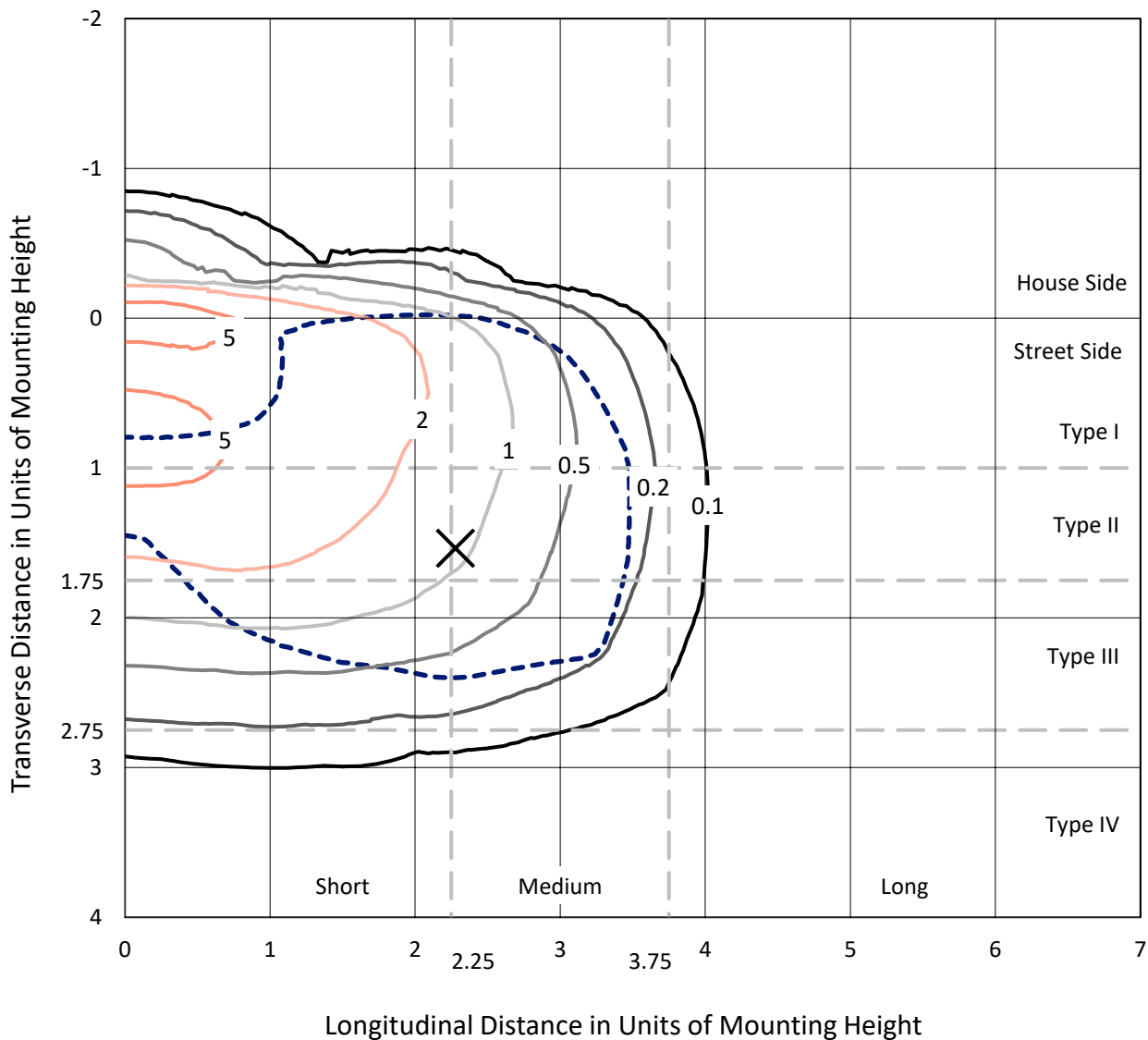
Lumens per Lamp: N/A  
Luminaire Lumens: 23194.4 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

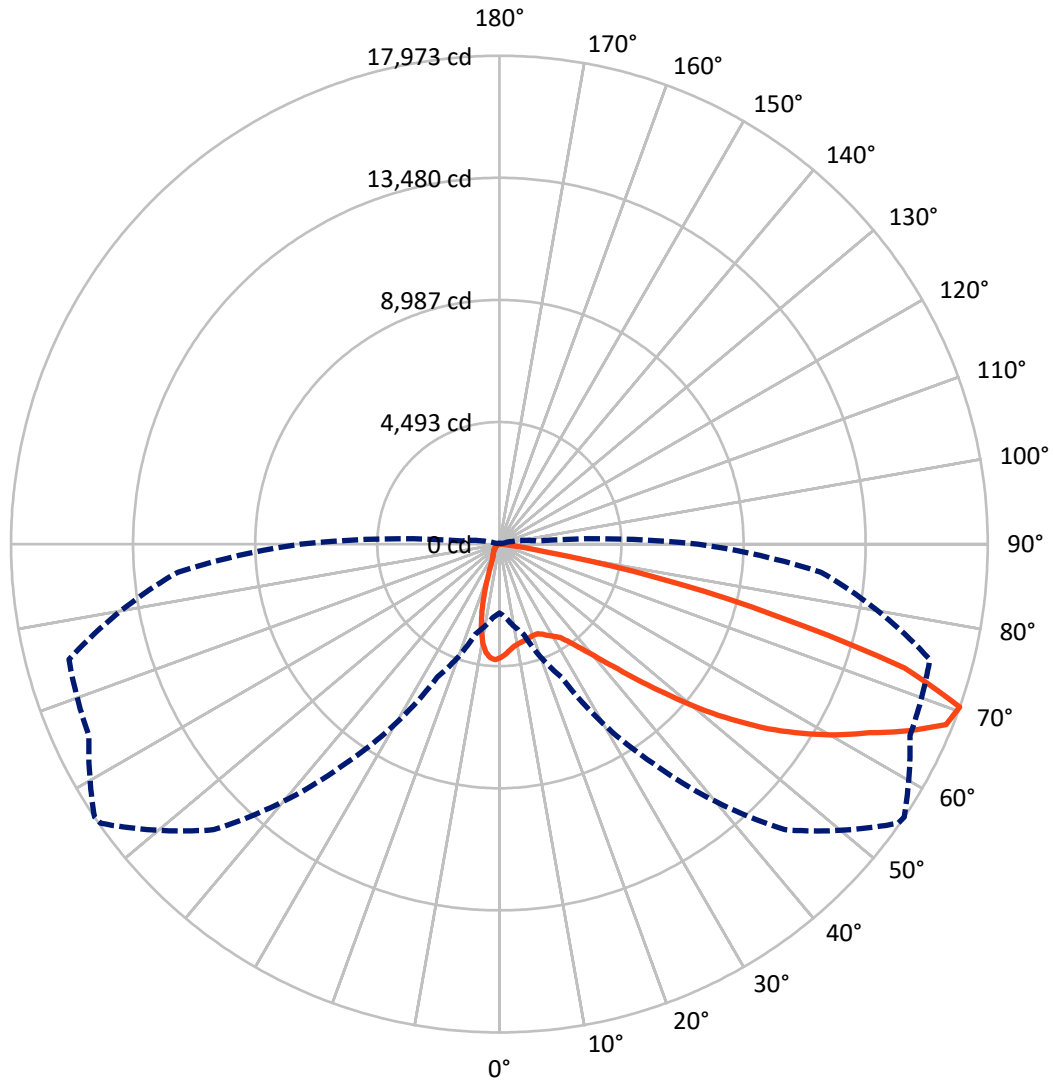
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2083.3	0.0	2083.3
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	21111.1	0.0	21111.1
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	23194.4	0.0	23194.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	359.1	1.5
10°-20°	807.6	3.5
20°-30°	1279.2	5.5
30°-40°	2206.1	9.5
40°-50°	3725.3	16.1
50°-60°	5473.6	23.6
60°-70°	6489.3	28.0
70°-80°	2767.3	11.9
80°-90°	86.9	0.4
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°	23194.4	100.0
0°-180°	23194.4	100.0

**Coefficient of Utilization**



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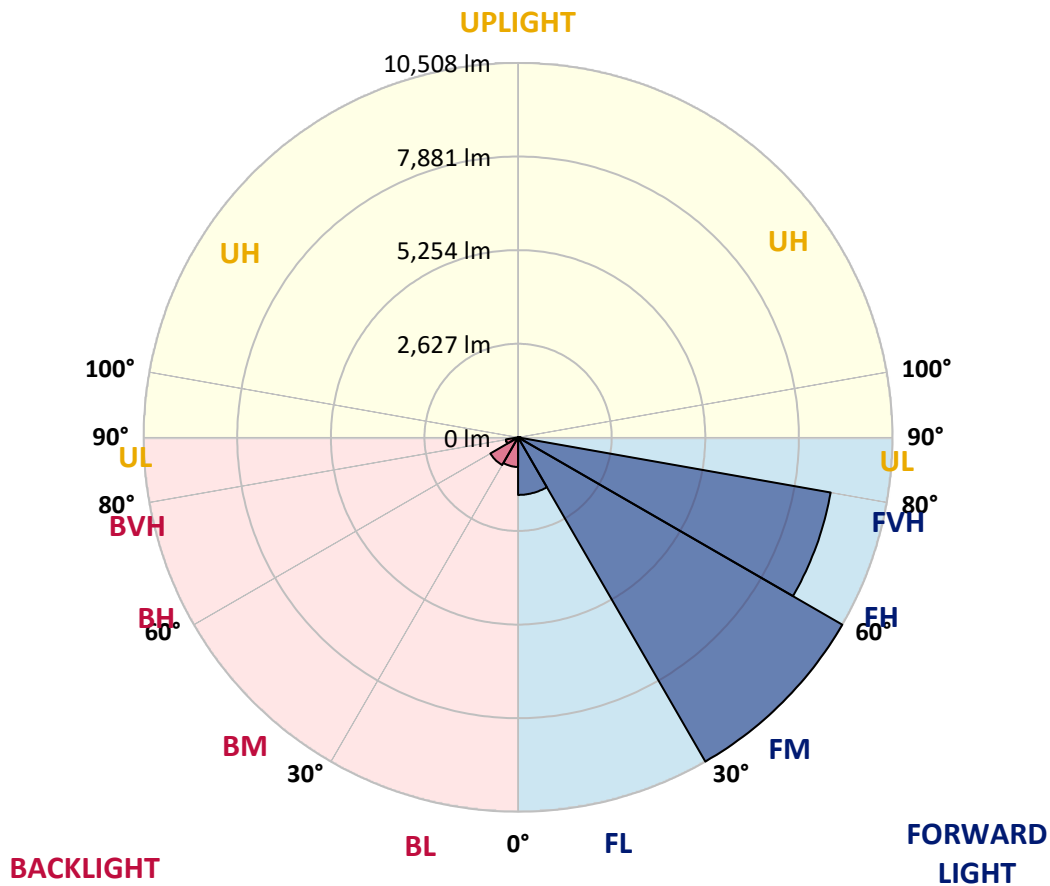
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1616.2	7.0			
FM (30°-60°)	10507.7	45.3			
FH (60°-80°)	8909.1	38.4			G4/12000
FVH (80°-90°)	78.1	0.3			G1/100
BL (0°-30°)	829.7	3.6	B2/1000		
BM (30°-60°)	897.3	3.9	B1/1000		
BH (60°-80°)	347.5	1.5	B1/500		G1/500
BVH (80°-90°)	8.8	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4182.2	4182.2	4182.2	4182.2	4182.2	4182.2	4182.2	4182.2	4182.2	4182.2	4182.2
2.5°	3893.3	3886.9	3891.2	3923.1	3982.5	4010.1	4056.9	4065.4	4103.6	4152.4	4171.6
5°	3640.6	3619.3	3629.9	3674.5	3742.5	3819.0	3906.1	3929.4	4025.0	4133.3	4214.0
7.5°	3409.0	3385.7	3411.2	3481.3	3576.8	3659.7	3789.2	3804.1	3957.0	4148.2	4294.8
10°	3045.8	3052.2	3103.2	3226.4	3372.9	3545.0	3719.1	3740.4	3929.4	4197.1	4424.3
12.5°	2767.6	2752.7	2807.9	2948.1	3154.2	3404.8	3666.0	3693.7	3931.6	4271.4	4590.0
15°	2638.0	2633.8	2657.1	2759.1	2958.8	3254.0	3617.2	3653.3	3959.2	4339.4	4747.2
17.5°	2642.3	2635.9	2633.8	2693.2	2841.9	3141.4	3564.1	3610.8	3982.5	4413.7	4912.8
20°	2827.1	2797.3	2744.2	2716.6	2805.8	3069.2	3528.0	3581.1	4016.5	4492.3	5089.1
22.5°	3213.6	3224.3	3081.9	2933.3	2890.8	3077.7	3523.7	3585.3	4090.9	4615.5	5305.8
25°	3986.8	3969.8	3706.4	3372.9	3141.4	3175.4	3598.1	3672.4	4237.4	4791.8	5509.7
27.5°	4955.3	4970.2	4609.1	4078.1	3593.8	3377.2	3734.0	3808.4	4407.3	4902.2	5645.6
30°	6011.0	5996.1	5609.5	5021.2	4235.3	3712.8	3870.0	3935.8	4492.3	4961.7	5785.8
32.5°	7009.2	6975.3	6592.9	5977.0	5053.0	4241.7	4056.9	4095.1	4604.9	5091.3	5974.9
35°	7861.0	7858.9	7525.4	6869.1	5894.1	4904.3	4377.6	4409.5	4815.1	5297.3	6253.1
37.5°	8740.3	8710.6	8336.8	7737.8	6758.6	5630.8	4868.2	4855.5	5146.5	5601.0	6595.1
40°	9462.5	9443.4	9156.6	8581.0	7657.1	6433.6	5463.0	5424.7	5539.4	6021.6	7070.8
42.5°	9997.7	9999.9	9910.6	9560.2	8608.6	7361.8	6210.6	6151.1	6149.0	6656.7	7699.6
45°	10403.4	10431.0	10564.8	10511.7	9732.2	8443.0	7168.5	7107.0	7002.9	7480.8	8419.6
47.5°	10592.5	10628.6	11032.1	11244.5	10715.7	9515.6	8309.1	8179.6	7975.7	8576.8	9224.6
50°	10573.3	10637.1	11199.9	11845.6	11607.7	10603.1	9551.7	9490.1	9156.6	9736.5	10021.1
52.5°	10140.0	10276.0	11210.5	12211.0	12293.8	11605.6	10836.7	10722.0	10560.6	10947.2	10768.8
55°	8963.3	9129.0	10762.4	12327.8	12829.0	12480.7	12094.1	12000.7	11733.1	12089.9	11420.8
57.5°	8324.0	8466.3	9819.3	12270.4	13283.6	13290.0	13213.5	13137.0	12916.1	13219.9	12185.5
60°	7939.6	8081.9	9315.9	12060.2	13695.6	14143.8	14264.9	14256.4	13937.8	14504.9	13081.8
62.5°	7376.7	7572.1	8791.3	11514.3	13988.8	14984.9	15350.2	15292.9	14938.2	15843.0	13969.6
65°	6240.4	6410.3	7716.5	10613.7	13816.7	15681.6	16527.0	16556.7	16146.8	17102.6	14670.6
67.5°	4375.5	4500.8	5798.6	8723.3	12648.5	15911.0	17731.3	17729.1	17030.3	17748.3	14360.5
70°	2536.1	2708.1	3426.0	5392.9	9840.6	14868.1	17911.8	17973.4	16671.4	16399.5	11883.9
72.5°	981.3	1123.6	1941.3	2865.3	5131.6	11389.0	15407.6	15588.1	13952.6	12650.6	8270.9
75°	293.1	327.1	913.3	1525.0	2060.3	5501.2	10431.0	10482.0	9570.8	7890.7	4239.5
77.5°	218.8	242.1	399.3	771.0	722.2	1667.4	5397.1	5894.1	5080.6	2818.6	1168.2
80°	148.7	176.3	284.6	376.0	267.6	443.9	1516.5	1665.2	1550.5	633.0	293.1
82.5°	65.8	85.0	201.8	189.0	97.7	127.4	467.3	497.0	320.7	191.2	102.0
85°	6.4	8.5	76.5	82.8	36.1	29.7	97.7	97.7	70.1	65.8	42.5
87.5°	0.0	0.0	2.1	4.2	4.2	6.4	8.5	10.6	12.7	17.0	21.2
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°	4182.2	4182.2	4182.2	4182.2	4182.2	4182.2	4182.2	4182.2	4182.2	4182.2	4182.2
2.5°	4220.4	4194.9	4226.8	4252.3	4258.6	4211.9	4184.3	4144.0	4135.5	4137.6	4127.0
5°	4277.8	4265.0	4288.4	4260.8	4188.6	4052.6	3935.8	3806.2	3736.1	3695.8	3691.5
7.5°	4384.0	4377.6	4352.1	4226.8	4001.6	3700.0	3409.0	3124.4	2948.1	2884.4	2873.8
10°	4541.1	4528.4	4424.3	4127.0	3646.9	3067.1	2578.6	2170.7	1922.2	1850.0	1760.8
12.5°	4721.7	4696.2	4468.9	3912.4	3111.7	2308.8	1699.2	1242.5	1028.0	964.3	964.3
15°	4895.9	4840.6	4443.4	3557.7	2453.2	1501.7	949.4	717.9	652.1	635.1	635.1
17.5°	5074.3	4968.1	4343.6	3073.4	1695.0	887.8	633.0	588.4	579.9	582.0	584.1
20°	5242.1	5076.4	4167.3	2491.5	1081.1	620.2	567.1	556.5	552.2	556.5	554.4
22.5°	5424.7	5176.2	3899.7	1856.4	703.0	558.6	539.5	531.0	526.8	533.1	533.1
25°	5605.3	5248.4	3545.0	1248.9	558.6	520.4	509.8	501.3	497.0	499.1	499.1
27.5°	5698.7	5220.8	3079.8	796.5	501.3	482.2	471.5	460.9	454.5	452.4	454.5
30°	5762.5	5135.9	2510.6	567.1	454.5	431.2	420.6	412.1	395.1	384.4	388.7
32.5°	5862.3	5050.9	1892.5	475.8	416.3	380.2	363.2	342.0	318.6	308.0	308.0
35°	5981.2	4934.1	1327.5	429.1	376.0	337.7	305.9	269.7	242.1	233.6	233.6
37.5°	6138.4	4823.6	883.6	397.2	342.0	301.6	257.0	214.5	184.8	180.5	178.4
40°	6374.2	4730.2	622.3	373.8	312.2	263.4	210.3	165.7	144.4	138.1	138.1
42.5°	6680.0	4634.6	492.8	350.5	286.7	227.3	167.8	131.7	114.7	110.4	108.3
45°	7058.1	4522.0	429.1	329.2	261.3	189.0	133.8	110.4	97.7	93.5	93.5
47.5°	7468.0	4369.1	399.3	301.6	231.5	152.9	112.6	95.6	89.2	87.1	85.0
50°	7871.6	4163.1	373.8	276.1	197.5	125.3	97.7	87.1	82.8	80.7	80.7
52.5°	8224.2	3923.1	342.0	246.4	161.4	108.3	87.1	80.7	76.5	72.2	70.1
55°	8525.8	3661.8	301.6	212.4	131.7	95.6	80.7	74.3	70.1	65.8	63.7
57.5°	8914.5	3513.1	242.1	172.0	108.3	85.0	74.3	68.0	63.7	57.3	57.3
60°	9345.7	3404.8	180.5	135.9	93.5	78.6	68.0	61.6	57.3	51.0	51.0
62.5°	9691.9	3243.4	142.3	110.4	80.7	70.1	61.6	55.2	51.0	44.6	44.6
65°	9823.6	2909.9	116.8	87.1	65.8	61.6	55.2	51.0	44.6	38.2	38.2
67.5°	9228.8	2243.0	97.7	70.1	55.2	53.1	48.9	46.7	38.2	34.0	31.9
70°	7308.7	1367.9	80.7	57.3	46.7	44.6	44.6	40.4	34.0	31.9	29.7
72.5°	5008.4	705.2	65.8	46.7	40.4	40.4	38.2	36.1	31.9	29.7	29.7
75°	2601.9	235.8	51.0	36.1	31.9	34.0	34.0	31.9	29.7	29.7	27.6
77.5°	745.5	106.2	38.2	27.6	25.5	25.5	27.6	27.6	27.6	25.5	25.5
80°	193.3	61.6	27.6	21.2	21.2	21.2	21.2	23.4	25.5	23.4	23.4
82.5°	78.6	34.0	19.1	17.0	17.0	17.0	17.0	19.1	21.2	21.2	21.2
85°	48.9	17.0	14.9	14.9	14.9	12.7	12.7	14.9	14.9	17.0	17.0
87.5°	29.7	12.7	12.7	12.7	12.7	10.6	10.6	10.6	10.6	10.6	10.6
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)