

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: P640176

Luminaire Tested: GWS-SA5D-735-U-SL2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640176
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-735-U-SL2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23487.6 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

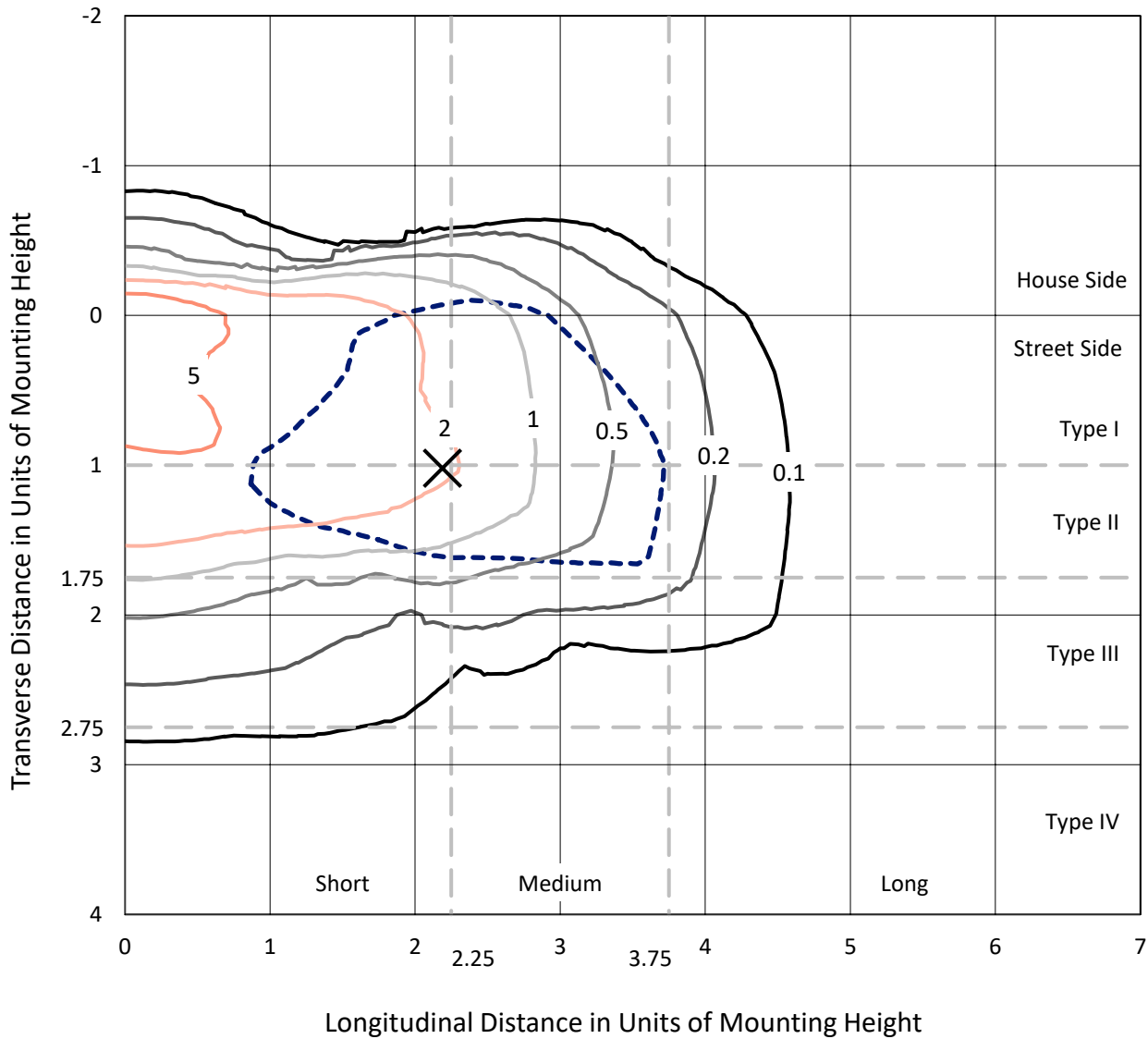
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

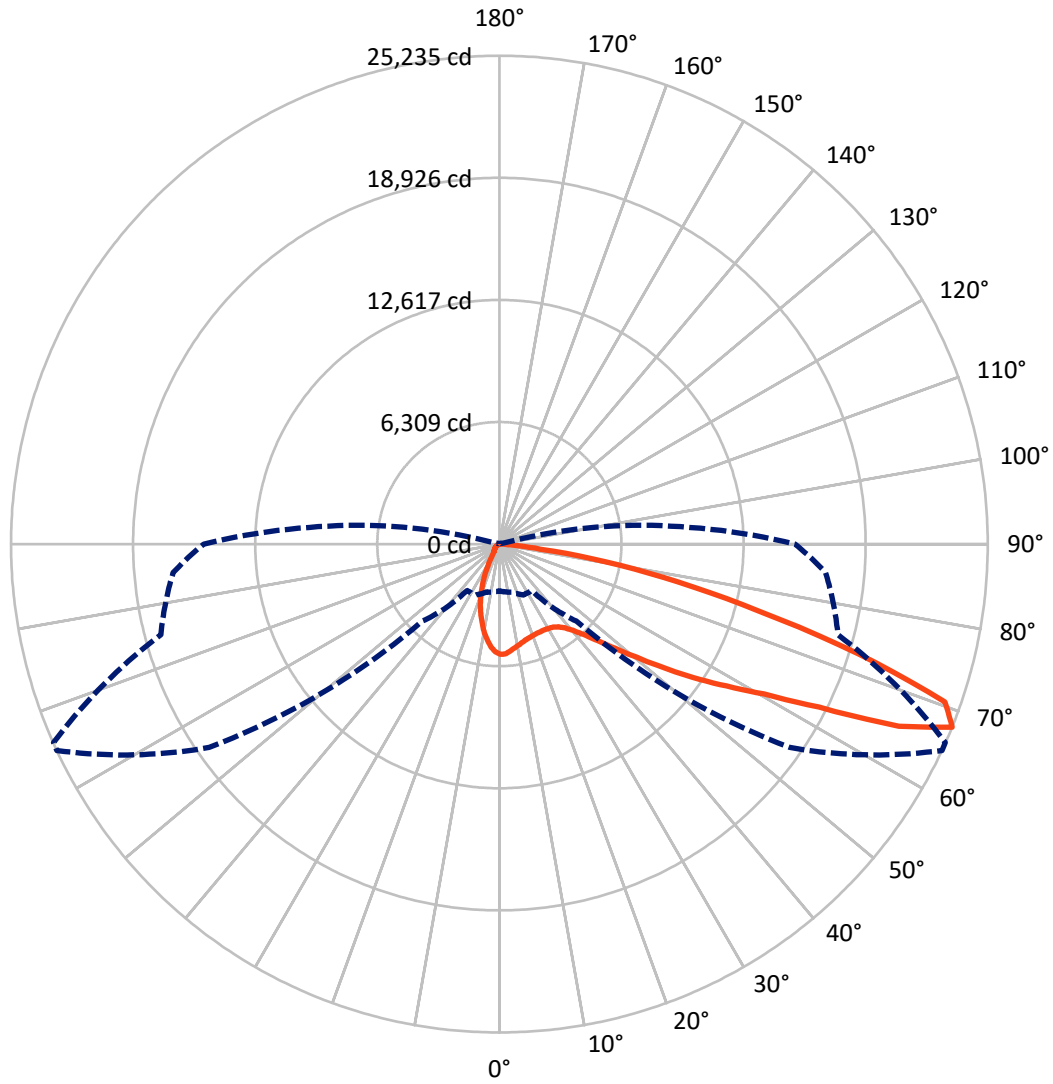
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2932.9	0.0	2932.9
	% Fixture	12.5	0.0	12.5
Street Side	Lumens	20554.7	0.0	20554.7
	% Fixture	87.5	0.0	87.5
Total	Lumens	23487.6	0.0	23487.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.1	2.0
10°-20°	1063.6	4.5
20°-30°	1519.8	6.5
30°-40°	2211.0	9.4
40°-50°	3462.9	14.7
50°-60°	5402.2	23.0
60°-70°	5934.0	25.3
70°-80°	3158.1	13.4
80°-90°	262.9	1.1
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°	23487.6	100.0
0°-180°	23487.6	100.0

Coefficient of Utilization

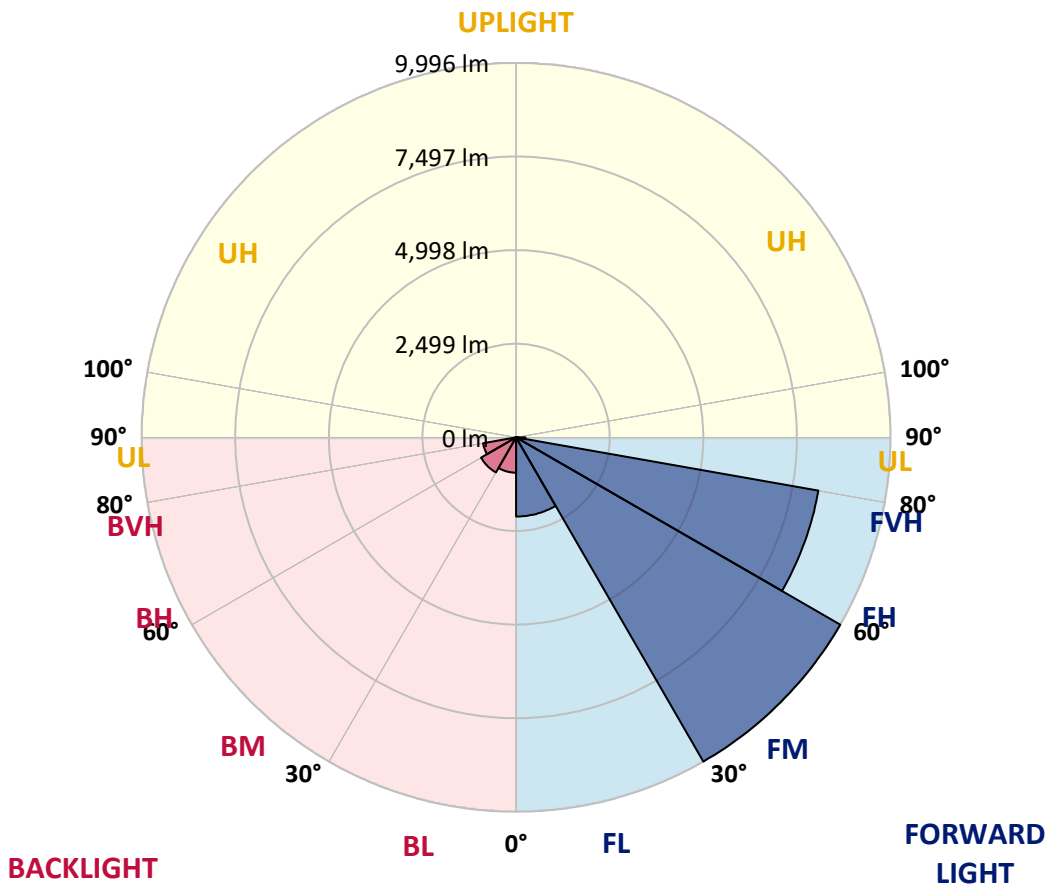


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2113.7	9.0			
FM (30°-60°)	9995.8	42.6			
FH (60°-80°)	8196.3	34.9			G4/12000
FVH (80°-90°)	248.9	1.1			G3/500
BL (0°-30°)	942.7	4.0	B2/1000		
BM (30°-60°)	1080.3	4.6	B2/2500		
BH (60°-80°)	895.8	3.8	B2/1000		G2/1000
BVH (80°-90°)	14.1	0.1			G1/100
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°	66°	75°	85°
0°	5696.5	5696.5	5696.5	5696.5	5696.5	5696.5	5696.5	5696.5	5696.5	5696.5	5696.5
2.5°	5499.0	5515.9	5492.6	5549.9	5560.5	5624.3	5660.4	5685.9	5683.7	5715.6	5715.6
5°	5176.1	5193.1	5180.4	5242.0	5290.8	5390.6	5473.5	5569.0	5573.3	5671.0	5707.1
7.5°	4902.1	4904.2	4904.2	4980.7	5044.4	5167.6	5290.8	5437.4	5454.4	5605.2	5700.7
10°	4677.0	4683.4	4685.5	4772.6	4842.6	4991.3	5148.5	5324.8	5343.9	5547.8	5696.5
12.5°	4521.9	4524.1	4532.5	4623.9	4700.3	4855.4	5014.7	5216.5	5242.0	5482.0	5677.4
15°	4447.6	4443.3	4447.6	4524.1	4600.5	4749.2	4912.7	5129.4	5157.0	5426.7	5679.5
17.5°	4443.3	4437.0	4432.7	4490.1	4538.9	4670.6	4836.3	5072.0	5101.8	5401.3	5702.9
20°	4504.9	4500.7	4479.4	4504.9	4515.6	4623.9	4787.4	5027.4	5057.2	5397.0	5753.8
22.5°	4666.4	4655.7	4623.9	4600.5	4543.2	4606.9	4753.4	4995.6	5029.6	5407.6	5819.7
25°	4906.4	4902.1	4861.8	4804.4	4657.9	4632.4	4755.6	4995.6	5027.4	5420.4	5889.8
27.5°	5267.4	5242.0	5191.0	5091.2	4880.9	4732.2	4798.0	5008.3	5040.2	5437.4	5947.1
30°	5634.9	5632.8	5615.8	5513.8	5201.6	4923.4	4887.3	5042.3	5072.0	5452.2	6000.2
32.5°	6015.1	6021.5	6063.9	5985.3	5643.4	5208.0	5048.7	5112.4	5133.6	5482.0	6046.9
35°	6376.2	6388.9	6501.5	6529.1	6180.7	5639.1	5312.0	5252.6	5254.7	5547.8	6108.5
37.5°	6722.4	6764.8	6945.4	7079.2	6849.8	6161.6	5692.2	5490.5	5473.5	5679.5	6202.0
40°	7115.3	7196.0	7423.3	7650.5	7578.3	6851.9	6210.5	5855.8	5819.7	5921.6	6369.8
42.5°	7550.7	7637.8	7939.4	8258.0	8292.0	7686.6	6858.3	6388.9	6327.3	6329.4	6684.1
45°	8018.0	8134.8	8485.3	8944.0	9150.1	8616.9	7656.9	7108.9	7047.3	6956.0	7189.6
47.5°	8631.8	8733.8	9071.5	9600.3	9995.4	9615.2	8704.0	8035.0	7922.4	7788.6	7975.5
50°	9160.7	9249.9	9540.9	10203.5	11025.5	10902.3	9891.3	9192.5	9084.2	8856.9	9012.0
52.5°	9277.5	9347.6	9615.2	10360.7	11813.5	12527.2	11346.2	10592.2	10515.8	10095.2	10154.7
55°	8752.9	8859.1	9099.1	9927.4	12019.5	14115.9	13234.4	12170.3	12011.0	11339.9	11446.1
57.5°	7427.5	7616.6	7841.7	8918.5	11460.9	14961.2	15872.4	13841.9	13697.5	12537.8	12539.9
60°	5443.7	5596.7	5747.5	6733.0	10135.6	14903.9	18266.1	15719.5	15456.1	13516.9	13480.8
62.5°	3959.1	4037.7	4035.5	4386.0	6960.2	13922.6	19523.5	18548.6	17934.8	14564.1	14358.0
65°	3113.7	3111.6	3202.9	3317.6	3886.9	10747.3	19678.6	22679.7	22017.1	15968.0	15539.0
67.5°	2423.4	2470.2	2561.5	2899.2	2920.5	5624.3	18315.0	25234.9	25222.1	18111.1	16921.7
70°	1869.1	1932.8	2062.4	2555.1	2697.4	3147.7	13703.8	24425.6	24631.7	19069.0	15942.5
72.5°	1200.0	1195.8	1387.0	2064.5	2591.2	2623.1	7578.3	19402.5	19636.1	17272.1	12890.4
75°	671.2	675.4	783.7	1263.8	2415.0	2468.1	3753.1	13835.5	14020.3	13466.0	9904.1
77.5°	263.4	271.9	367.4	664.8	1593.0	2204.7	2230.2	9434.7	9462.3	8345.1	6074.5
80°	106.2	112.6	186.9	412.0	970.7	1484.7	1593.0	5558.4	5445.9	3230.6	1767.1
82.5°	31.9	34.0	74.3	233.6	507.6	1055.6	1074.7	2132.5	2013.5	694.5	450.3
85°	2.1	2.1	17.0	72.2	180.5	265.5	715.8	694.5	616.0	174.2	199.7
87.5°	0.0	0.0	2.1	2.1	4.2	8.5	76.5	127.4	129.6	31.9	89.2
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°	5696.5	5696.5	5696.5	5696.5	5696.5	5696.5	5696.5	5696.5	5696.5	5696.5	5696.5
2.5°	5715.6	5639.1	5632.8	5573.3	5513.8	5439.5	5352.4	5288.7	5244.1	5165.5	5150.6
5°	5707.1	5605.2	5509.6	5339.7	5150.6	4946.7	4768.3	4602.6	4498.6	4428.5	4398.7
7.5°	5690.1	5560.5	5339.7	5018.9	4702.5	4345.6	4067.4	3812.5	3638.4	3536.4	3491.8
10°	5677.4	5503.2	5144.3	4657.9	4167.2	3674.5	3251.8	2873.7	2663.5	2497.8	2470.2
12.5°	5651.9	5420.4	4893.6	4235.2	3602.3	2948.1	2408.6	1945.6	1624.8	1480.4	1429.4
15°	5626.4	5333.3	4643.0	3789.2	2986.3	2179.2	1525.0	1079.0	858.1	790.1	785.9
17.5°	5622.1	5254.7	4371.1	3366.5	2340.6	1427.3	868.7	698.8	652.1	635.1	635.1
20°	5634.9	5188.9	4103.5	2880.1	1705.5	868.7	647.8	605.3	577.7	562.9	562.9
22.5°	5647.6	5120.9	3846.5	2389.5	1132.1	635.1	571.3	535.2	503.4	486.4	477.9
25°	5656.1	5046.5	3561.9	1896.7	739.1	552.2	501.3	454.5	416.3	395.1	395.1
27.5°	5654.0	4957.3	3275.2	1414.6	573.5	490.6	429.0	380.2	342.0	318.6	320.7
30°	5637.0	4859.6	2977.8	987.6	501.3	429.0	367.4	316.5	278.2	259.1	257.0
32.5°	5624.3	4755.6	2633.7	694.5	450.3	375.9	312.2	263.4	231.5	216.6	214.5
35°	5609.4	4653.6	2306.6	528.9	405.7	325.0	263.4	223.0	197.5	184.8	184.8
37.5°	5613.6	4547.4	1951.9	454.5	361.1	282.5	225.1	191.2	169.9	157.2	155.0
40°	5679.5	4483.7	1603.6	412.0	320.7	244.3	195.4	165.7	144.4	131.7	129.6
42.5°	5843.0	4485.8	1270.1	380.2	284.6	208.1	169.9	142.3	123.2	108.3	106.2
45°	6170.1	4575.0	974.9	346.2	246.4	180.5	146.6	121.1	102.0	89.2	87.1
47.5°	6705.4	4840.5	739.1	316.5	214.5	157.2	125.3	102.0	85.0	74.3	72.2
50°	7557.1	5320.5	582.0	280.4	180.5	135.9	106.2	85.0	70.1	59.5	57.3
52.5°	8580.8	6040.6	499.1	248.5	155.0	118.9	91.3	70.1	57.3	48.9	46.7
55°	9757.5	6900.8	460.9	216.6	131.7	102.0	74.3	57.3	46.7	40.4	36.1
57.5°	10836.5	7676.0	458.8	184.8	112.6	87.1	61.6	48.9	40.4	31.9	29.7
60°	11887.9	8323.8	431.2	152.9	97.7	72.2	53.1	40.4	34.0	27.6	25.5
62.5°	12841.5	8850.6	361.1	123.2	82.8	59.5	44.6	36.1	29.7	23.4	23.4
65°	14039.4	9521.7	276.1	99.8	68.0	48.9	38.2	31.9	27.6	21.2	21.2
67.5°	15277.7	9876.5	197.5	82.8	55.2	42.5	34.0	29.7	23.4	19.1	19.1
70°	13837.7	8345.1	142.3	68.0	46.7	36.1	29.7	27.6	23.4	19.1	17.0
72.5°	10806.8	6017.2	106.2	53.1	40.4	34.0	27.6	25.5	21.2	17.0	17.0
75°	8013.7	3508.8	80.7	42.5	31.9	27.6	27.6	25.5	21.2	17.0	14.9
77.5°	4356.3	1223.4	61.6	34.0	25.5	21.2	23.4	23.4	19.1	14.9	12.7
80°	1153.3	335.6	42.5	25.5	21.2	17.0	17.0	21.2	17.0	12.7	12.7
82.5°	335.6	97.7	29.7	21.2	17.0	14.9	14.9	14.9	12.7	10.6	8.5
85°	163.5	36.1	21.2	17.0	14.9	12.7	10.6	10.6	8.5	6.4	6.4
87.5°	72.2	14.9	17.0	14.9	14.9	10.6	8.5	6.4	6.4	4.2	2.1
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)