

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: P642682

Luminaire Tested: GWS-SA6D-735-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642682
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-SA6D-735-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27657.7 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

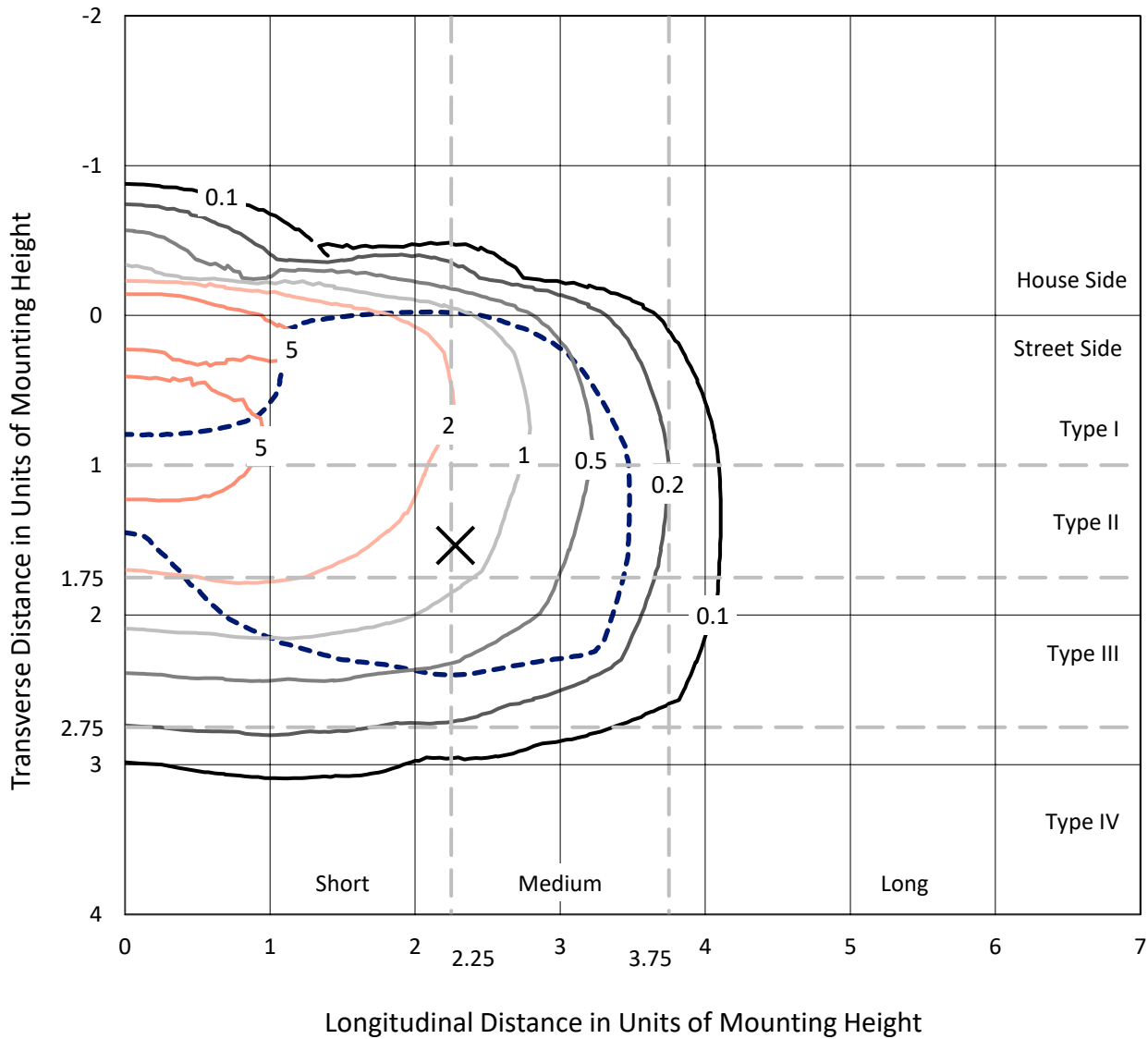
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

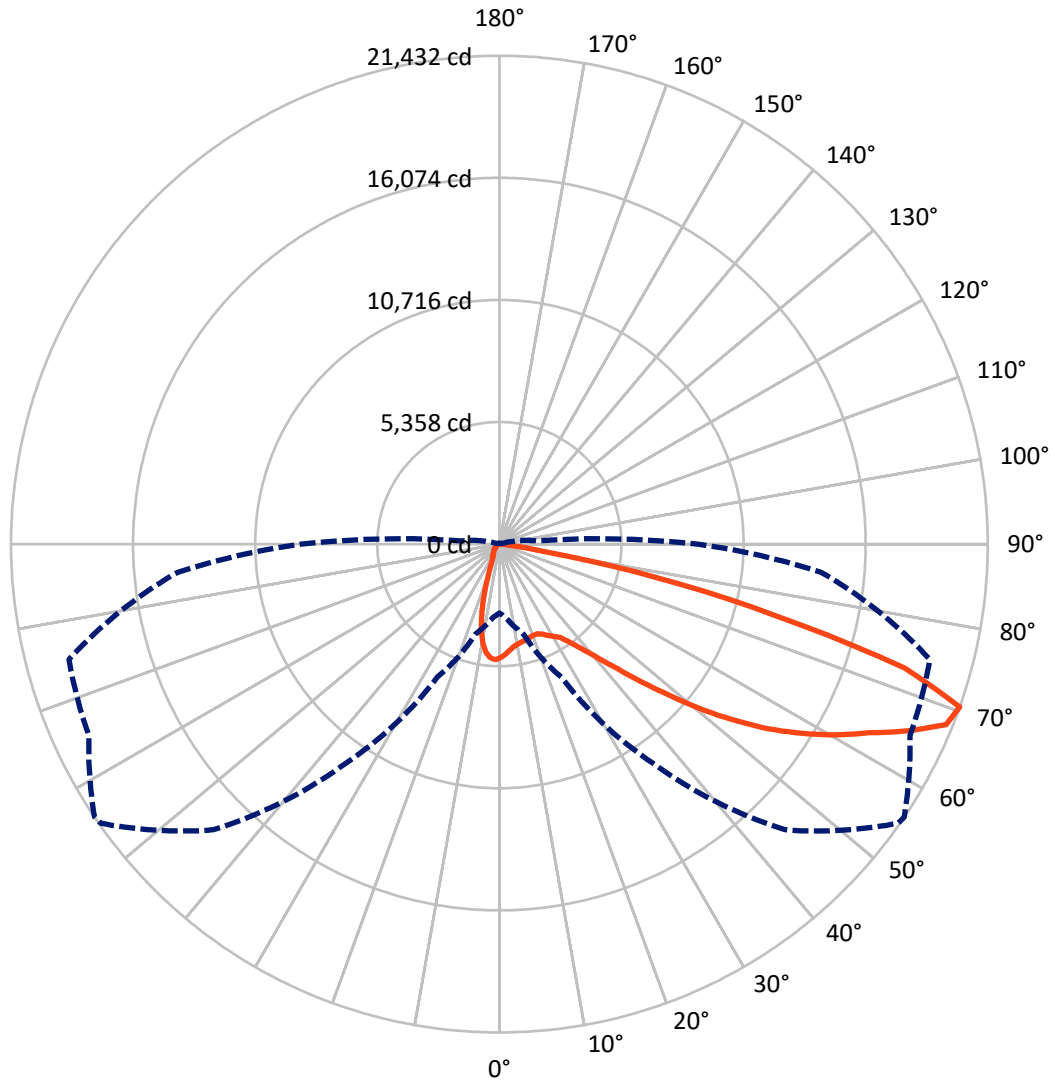
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P642682
CATALOG NUMBER: GWS-SA6D-735-U-T3R-W-HSS

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
House Side	Lumens	2484.2	0.0	2484.2
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	25173.5	0.0	25173.5
	% Fixture	91.0	0.0	91.0
Total	Lumens	27657.7	0.0	27657.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.2	1.5
10°-20°	963.0	3.5
20°-30°	1525.4	5.5
30°-40°	2630.6	9.5
40°-50°	4442.1	16.1
50°-60°	6526.9	23.6
60°-70°	7738.0	28.0
70°-80°	3299.8	11.9
80°-90°	103.6	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°	27657.7	100.0
0°-180°	27657.7	100.0

Coefficient of Utilization



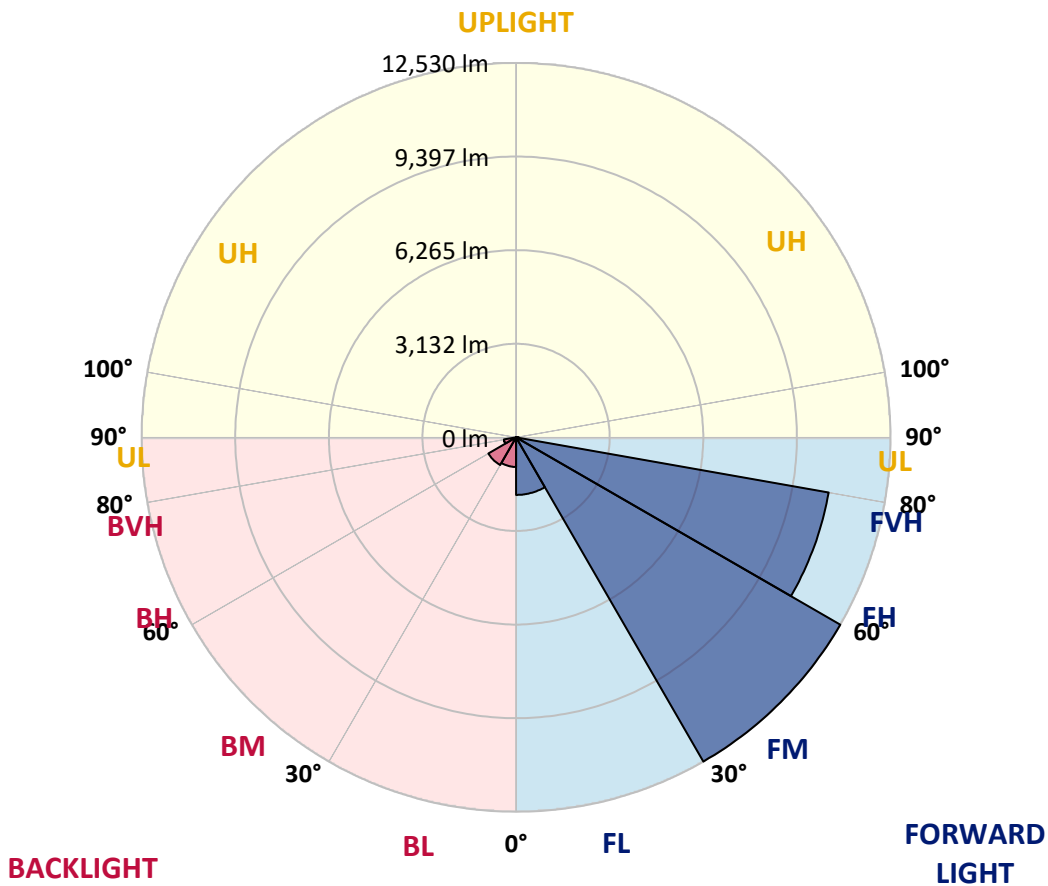
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1927.2	7.0			
FM (30°-60°)	12529.7	45.3			
FH (60°-80°)	10623.5	38.4			G4/12000
FVH (80°-90°)	93.1	0.3			G1/100
BL (0°-30°)	989.4	3.6	B2/1000		
BM (30°-60°)	1070.0	3.9	B2/2500		
BH (60°-80°)	414.3	1.5	B1/500		G1/500
BVH (80°-90°)	10.5	0.0			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 III Medium





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CATALOG NUMBER: GWS-SA6D-735-U-T3R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4987.0	4987.0	4987.0	4987.0	4987.0	4987.0	4987.0	4987.0	4987.0	4987.0	4987.0
2.5°	4642.5	4634.9	4640.0	4678.0	4748.9	4781.8	4837.5	4847.7	4893.3	4951.5	4974.3
5°	4341.1	4315.8	4328.4	4381.6	4462.7	4553.9	4657.7	4685.6	4799.5	4928.7	5025.0
7.5°	4065.0	4037.2	4067.6	4151.2	4265.1	4363.9	4518.4	4536.1	4718.5	4946.4	5121.2
10°	3631.9	3639.5	3700.3	3847.2	4022.0	4227.1	4434.8	4460.2	4685.6	5004.7	5275.7
12.5°	3300.2	3282.4	3348.3	3515.4	3761.1	4060.0	4371.5	4404.4	4688.1	5093.3	5473.2
15°	3145.7	3140.6	3168.5	3290.0	3528.1	3880.2	4313.3	4356.3	4721.0	5174.4	5660.7
17.5°	3150.7	3143.1	3140.6	3211.5	3388.8	3745.9	4249.9	4305.7	4748.9	5263.0	5858.2
20°	3371.1	3335.6	3272.3	3239.4	3345.7	3659.8	4206.9	4270.2	4789.4	5356.7	6068.4
22.5°	3832.0	3844.7	3675.0	3497.7	3447.1	3669.9	4201.8	4275.3	4878.1	5503.6	6326.8
25°	4753.9	4733.7	4419.6	4022.0	3745.9	3786.4	4290.5	4379.1	5052.8	5713.9	6569.9
27.5°	5908.9	5926.6	5496.0	4862.9	4285.4	4027.1	4452.6	4541.2	5255.4	5845.6	6732.0
30°	7167.6	7149.9	6689.0	5987.4	5050.3	4427.2	4614.6	4693.2	5356.7	5916.5	6899.2
32.5°	8358.0	8317.5	7861.6	7127.1	6025.4	5057.9	4837.5	4883.1	5491.0	6071.0	7124.6
35°	9373.7	9371.1	8973.5	8190.9	7028.3	5848.1	5220.0	5258.0	5741.7	6316.6	7456.4
37.5°	10422.2	10386.8	9941.0	9226.8	8059.2	6714.3	5805.0	5789.8	6136.8	6678.8	7864.2
40°	11283.3	11260.6	10918.6	10232.3	9130.5	7671.7	6514.2	6468.6	6605.4	7180.3	8431.5
42.5°	11921.6	11924.1	11817.8	11399.9	10265.2	8778.5	7405.7	7334.8	7332.3	7937.6	9181.2
45°	12405.4	12438.3	12597.8	12534.5	11605.0	10067.6	8548.0	8474.5	8350.4	8920.3	10039.8
47.5°	12630.8	12673.8	13155.0	13408.3	12777.7	11346.7	9908.1	9753.6	9510.4	10227.2	10999.7
50°	12608.0	12684.0	13355.1	14125.1	13841.4	12643.4	11389.7	11316.3	10918.6	11610.1	11949.5
52.5°	12091.3	12253.4	13367.8	14560.7	14659.5	13838.9	12922.0	12785.3	12592.8	13053.7	12841.0
55°	10688.2	10885.7	12833.4	14700.0	15297.7	14882.4	14421.4	14310.0	13990.8	14416.3	13618.5
57.5°	9925.8	10095.5	11708.8	14631.6	15839.7	15847.3	15756.2	15665.0	15401.6	15763.8	14530.3
60°	9467.4	9637.1	11108.6	14380.9	16331.1	16865.5	17009.9	16999.7	16619.8	17296.1	15599.1
62.5°	8796.2	9029.2	10483.0	13730.0	16680.6	17868.5	18304.1	18235.7	17812.7	18891.7	16657.8
65°	7441.2	7643.8	9201.4	12656.1	16475.5	18699.2	19707.2	19742.7	19253.9	20393.6	17493.6
67.5°	5217.4	5366.9	6914.4	10402.0	15082.5	18972.7	21143.3	21140.8	20307.5	21163.6	17123.8
70°	3024.1	3229.2	4085.3	6430.6	11734.2	17729.2	21358.6	21432.0	19879.5	19555.3	14170.7
72.5°	1170.1	1339.8	2314.9	3416.7	6119.1	13580.5	18372.5	18587.8	16637.6	15085.0	9862.5
75°	349.5	390.0	1089.1	1818.5	2456.8	6559.8	12438.3	12499.1	11412.5	9409.1	5055.3
77.5°	260.9	288.7	476.2	919.4	861.1	1988.2	6435.7	7028.3	6058.3	3360.9	1393.0
80°	177.3	210.2	339.4	448.3	319.1	529.3	1808.4	1985.7	1848.9	754.8	349.5
82.5°	78.5	101.3	240.6	225.4	116.5	152.0	557.2	592.7	382.4	227.9	121.6
85°	7.6	10.1	91.2	98.8	43.1	35.5	116.5	116.5	83.6	78.5	50.7
87.5°	0.0	0.0	2.5	5.1	5.1	7.6	10.1	12.7	15.2	20.3	25.3
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°	4987.0	4987.0	4987.0	4987.0	4987.0	4987.0	4987.0	4987.0	4987.0	4987.0	4987.0
2.5°	5032.6	5002.2	5040.1	5070.5	5078.1	5022.4	4989.5	4941.4	4931.2	4933.8	4921.1
5°	5100.9	5085.7	5113.6	5080.7	4994.6	4832.5	4693.2	4538.7	4455.1	4407.0	4401.9
7.5°	5227.6	5220.0	5189.6	5040.1	4771.7	4412.0	4065.0	3725.7	3515.4	3439.5	3426.8
10°	5415.0	5399.8	5275.7	4921.1	4348.7	3657.3	3074.7	2588.5	2292.1	2206.0	2099.6
12.5°	5630.3	5599.9	5328.9	4665.3	3710.5	2753.1	2026.2	1481.7	1225.8	1149.9	1149.9
15°	5838.0	5772.1	5298.5	4242.3	2925.3	1790.6	1132.1	856.1	777.6	757.3	757.3
17.5°	6050.7	5924.1	5179.4	3664.9	2021.1	1058.7	754.8	701.6	691.4	694.0	696.5
20°	6250.8	6053.2	4969.2	2970.9	1289.2	739.6	676.2	663.6	658.5	663.6	661.0
22.5°	6468.6	6172.3	4650.1	2213.6	838.3	666.1	643.3	633.2	628.1	635.7	635.7
25°	6683.9	6258.4	4227.1	1489.3	666.1	620.5	607.9	597.7	592.7	595.2	595.2
27.5°	6795.3	6225.5	3672.5	949.8	597.7	574.9	562.3	549.6	542.0	539.5	542.0
30°	6871.3	6124.2	2993.7	676.2	542.0	514.1	501.5	491.4	471.1	458.4	463.5
32.5°	6990.4	6022.9	2256.7	567.3	496.4	453.4	433.1	407.8	379.9	367.2	367.2
35°	7132.2	5883.6	1583.0	511.6	448.3	402.7	364.7	321.7	288.7	278.6	278.6
37.5°	7319.6	5751.8	1053.6	473.6	407.8	359.6	306.5	255.8	220.3	215.3	212.8
40°	7600.7	5640.4	742.1	445.8	372.3	314.1	250.7	197.6	172.2	164.6	164.6
42.5°	7965.5	5526.4	587.6	417.9	341.9	271.0	200.1	157.0	136.8	131.7	129.2
45°	8416.3	5392.2	511.6	392.6	311.5	225.4	159.6	131.7	116.5	111.4	111.4
47.5°	8905.1	5209.8	476.2	359.6	276.1	182.4	134.2	114.0	106.4	103.8	101.3
50°	9386.3	4964.2	445.8	329.3	235.5	149.4	116.5	103.8	98.8	96.2	96.2
52.5°	9806.8	4678.0	407.8	293.8	192.5	129.2	103.8	96.2	91.2	86.1	83.6
55°	10166.4	4366.4	359.6	253.3	157.0	114.0	96.2	88.6	83.6	78.5	76.0
57.5°	10629.9	4189.1	288.7	205.2	129.2	101.3	88.6	81.0	76.0	68.4	68.4
60°	11144.0	4060.0	215.3	162.1	111.4	93.7	81.0	73.4	68.4	60.8	60.8
62.5°	11556.9	3867.5	169.7	131.7	96.2	83.6	73.4	65.9	60.8	53.2	53.2
65°	11713.9	3469.9	139.3	103.8	78.5	73.4	65.9	60.8	53.2	45.6	45.6
67.5°	11004.7	2674.6	116.5	83.6	65.9	63.3	58.3	55.7	45.6	40.5	38.0
70°	8715.2	1631.1	96.2	68.4	55.7	53.2	53.2	48.1	40.5	38.0	35.5
72.5°	5972.2	840.9	78.5	55.7	48.1	48.1	45.6	43.1	38.0	35.5	35.5
75°	3102.6	281.1	60.8	43.1	38.0	40.5	40.5	38.0	35.5	35.5	32.9
77.5°	889.0	126.6	45.6	32.9	30.4	30.4	32.9	32.9	32.9	30.4	30.4
80°	230.5	73.4	32.9	25.3	25.3	25.3	25.3	27.9	30.4	27.9	27.9
82.5°	93.7	40.5	22.8	20.3	20.3	20.3	20.3	22.8	25.3	25.3	25.3
85°	58.3	20.3	17.7	17.7	17.7	15.2	15.2	17.7	17.7	20.3	20.3
87.5°	35.5	15.2	15.2	15.2	15.2	12.7	12.7	12.7	12.7	12.7	12.7
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)