

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: P640867

Luminaire Tested: GWS-SA5E-760-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640867
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-SA5E-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29649.1 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

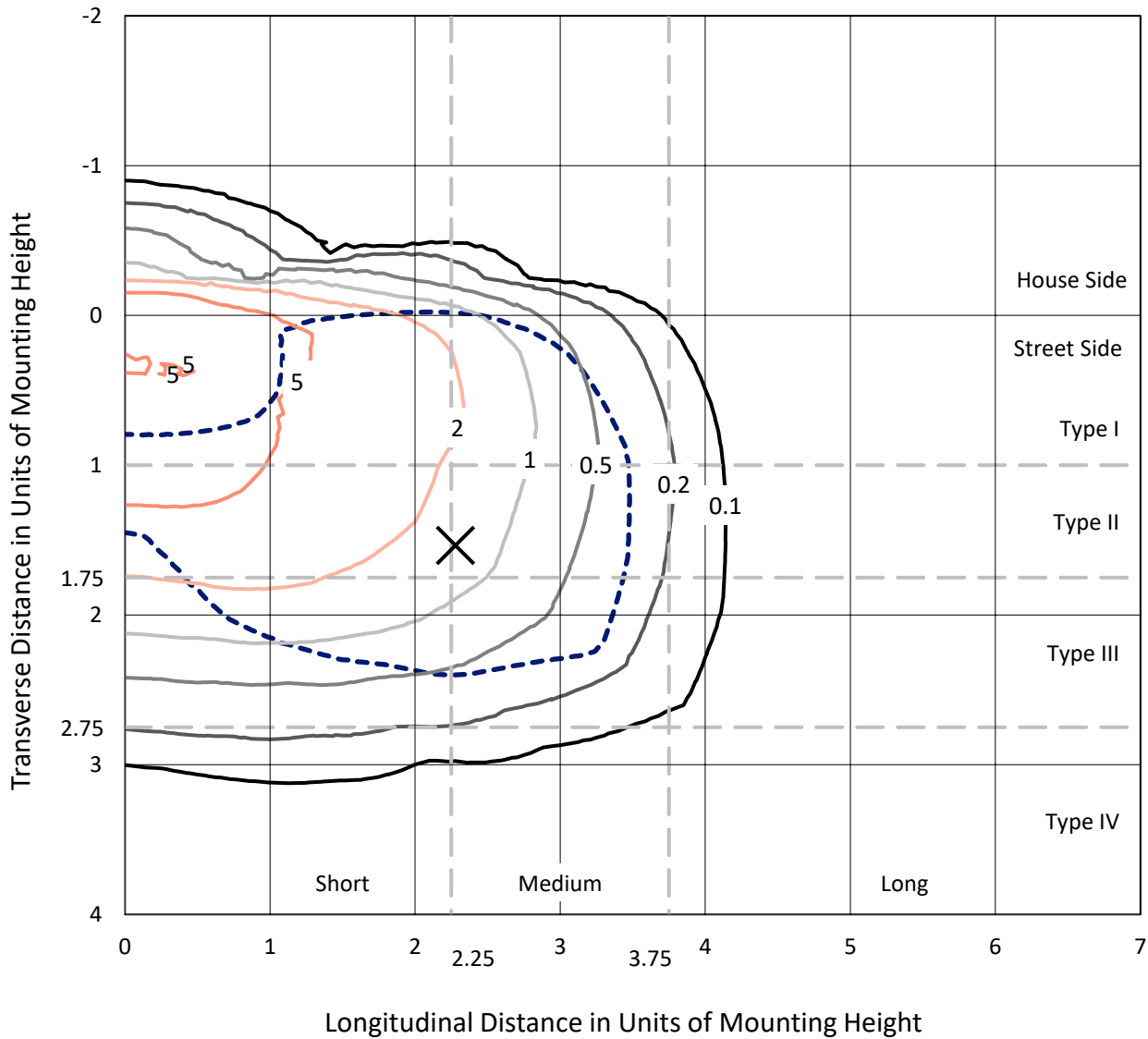
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

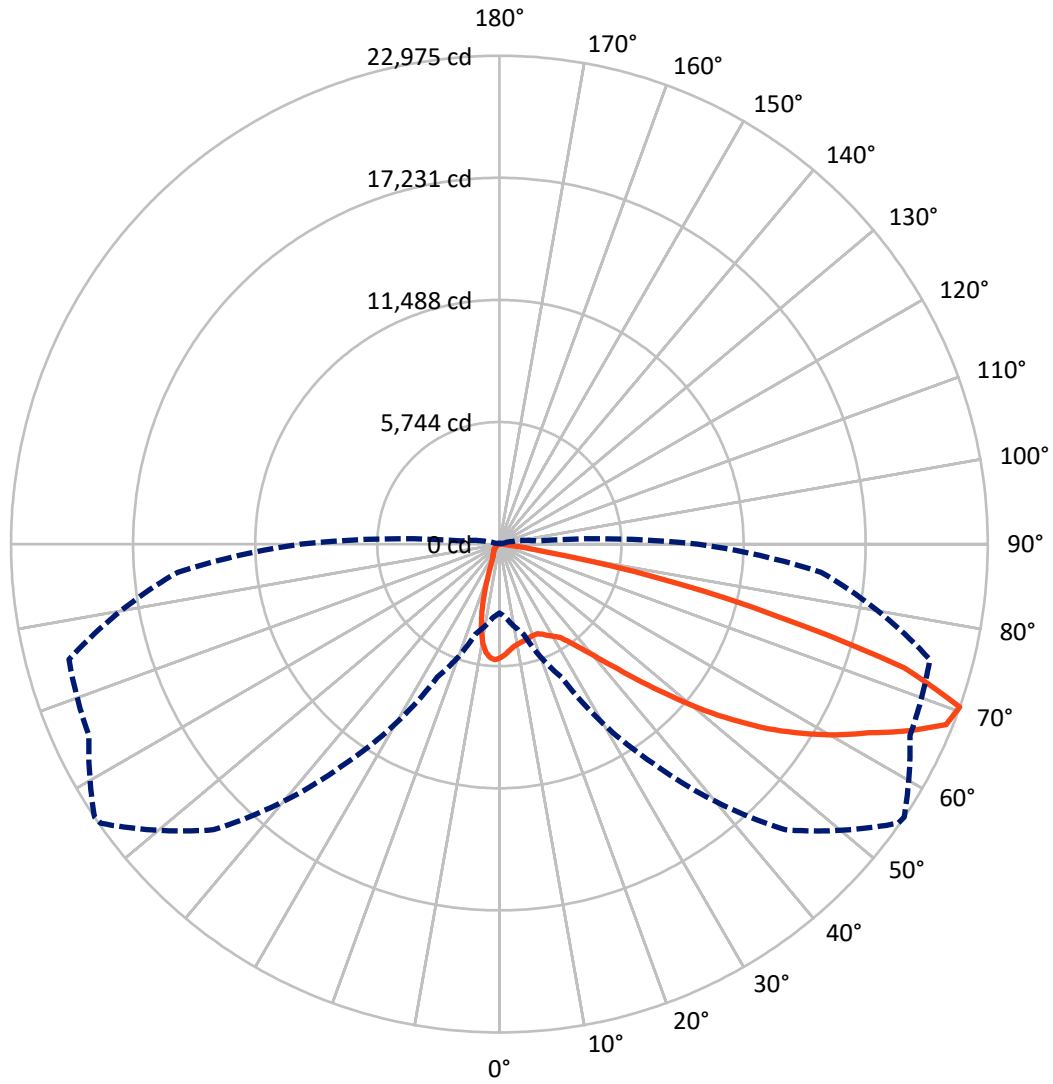
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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
House Side	Lumens	2663.1	0.0	2663.1
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	26986.0	0.0	26986.0
	% Fixture	91.0	0.0	91.0
Total	Lumens	29649.1	0.0	29649.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.0	1.5
10°-20°	1032.3	3.5
20°-30°	1635.2	5.5
30°-40°	2820.0	9.5
40°-50°	4762.0	16.1
50°-60°	6996.9	23.6
60°-70°	8295.2	28.0
70°-80°	3537.4	11.9
80°-90°	111.1	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°	29649.1	100.0
0°-180°	29649.1	100.0

Coefficient of Utilization



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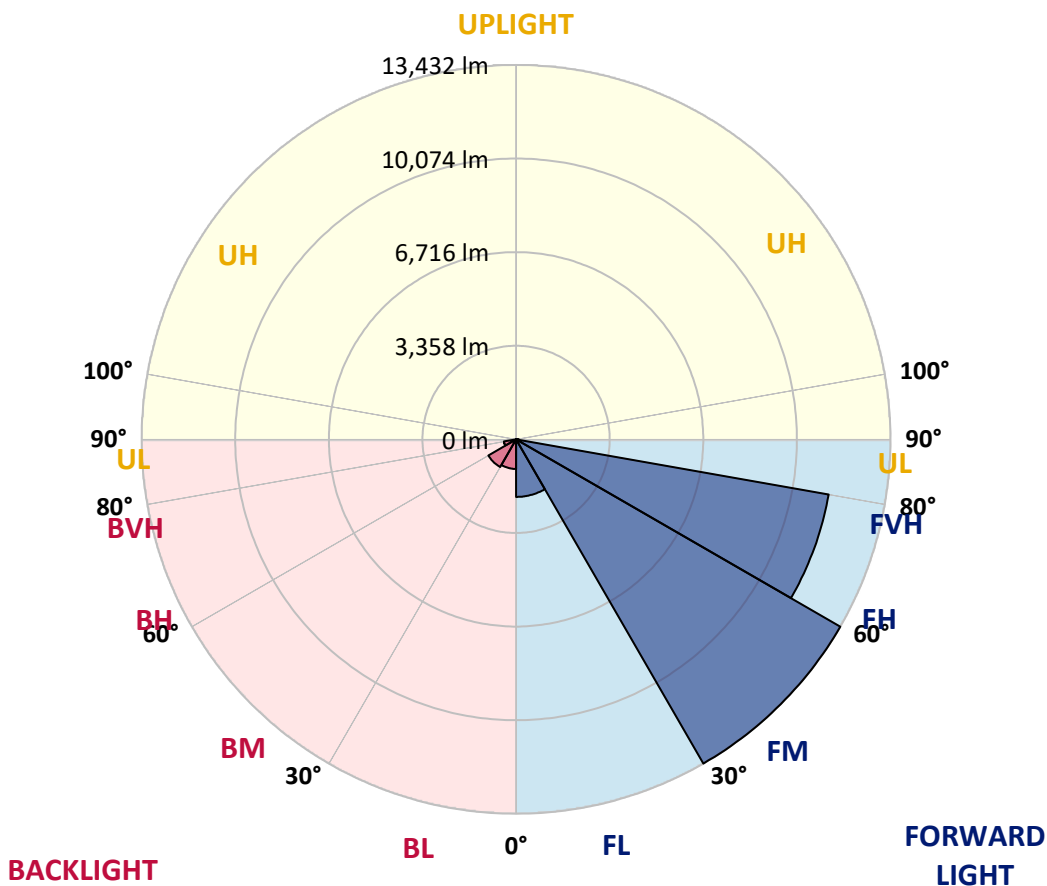
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2066.0	7.0			
FM (30°-60°)	13431.8	45.3			
FH (60°-80°)	11388.4	38.4			G4/12000
FVH (80°-90°)	99.8	0.3			G1/100
BL (0°-30°)	1060.6	3.6	B3/2500		
BM (30°-60°)	1147.0	3.9	B2/2500		
BH (60°-80°)	444.2	1.5	B1/500		G1/500
BVH (80°-90°)	11.3	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5346.0	5346.0	5346.0	5346.0	5346.0	5346.0	5346.0	5346.0	5346.0	5346.0	5346.0
2.5°	4976.8	4968.6	4974.1	5014.8	5090.8	5126.1	5185.8	5196.7	5245.6	5308.0	5332.5
5°	4653.7	4626.5	4640.1	4697.1	4784.0	4881.7	4993.1	5022.9	5145.1	5283.6	5386.8
7.5°	4357.7	4327.9	4360.4	4450.0	4572.2	4678.1	4843.7	4862.7	5058.2	5302.6	5489.9
10°	3893.5	3901.6	3966.8	4124.2	4311.6	4531.5	4754.1	4781.3	5022.9	5365.0	5655.6
12.5°	3537.8	3518.8	3589.4	3768.6	4031.9	4352.3	4686.3	4721.6	5025.6	5460.1	5867.3
15°	3372.2	3366.7	3396.6	3526.9	3782.1	4159.5	4623.8	4670.0	5060.9	5546.9	6068.2
17.5°	3377.6	3369.4	3366.7	3442.7	3632.8	4015.6	4555.9	4615.7	5090.8	5642.0	6280.0
20°	3613.8	3575.8	3507.9	3472.6	3586.6	3923.3	4509.8	4577.7	5134.3	5742.4	6505.4
22.5°	4107.9	4121.5	3939.6	3749.6	3695.3	3934.2	4504.4	4583.1	5229.3	5899.9	6782.3
25°	5096.2	5074.5	4737.8	4311.6	4015.6	4059.1	4599.4	4694.4	5416.6	6125.3	7043.0
27.5°	6334.3	6353.3	5891.8	5213.0	4593.9	4317.0	4773.1	4868.2	5633.8	6266.4	7216.7
30°	7683.7	7664.7	7170.6	6418.5	5413.9	4746.0	4946.9	5031.1	5742.4	6342.5	7395.9
32.5°	8959.8	8916.4	8427.7	7640.3	6459.2	5422.1	5185.8	5234.7	5886.3	6508.1	7637.6
35°	10048.6	10045.9	9619.6	8780.6	7534.4	6269.2	5595.8	5636.5	6155.1	6771.5	7993.3
37.5°	11172.6	11134.6	10656.8	9891.1	8639.4	7197.7	6223.0	6206.7	6578.7	7159.7	8430.4
40°	12095.8	12071.3	11704.8	10969.0	9787.9	8224.0	6983.2	6934.4	7081.0	7697.3	9038.6
42.5°	12780.0	12782.7	12668.7	12220.7	11004.3	9410.5	7939.0	7862.9	7860.2	8509.1	9842.2
45°	13298.6	13333.9	13504.9	13437.0	12440.6	10792.5	9163.5	9084.7	8951.7	9562.6	10762.7
47.5°	13540.2	13586.4	14102.2	14373.7	13697.7	12163.6	10621.5	10455.8	10195.2	10963.6	11791.7
50°	13515.8	13597.2	14316.7	15142.1	14838.0	13553.8	12209.8	12131.1	11704.8	12446.0	12809.8
52.5°	12961.9	13135.7	14330.3	15609.1	15715.0	14835.3	13852.4	13705.8	13499.5	13993.6	13765.6
55°	11457.7	11669.5	13757.4	15758.4	16399.2	15953.9	15459.8	15340.3	14998.2	15454.3	14599.1
57.5°	10640.5	10822.4	12551.9	15685.1	16980.2	16988.4	16890.6	16792.9	16510.5	16898.8	15576.5
60°	10149.0	10331.0	11908.4	15416.3	17507.0	18079.8	18234.6	18223.7	17816.5	18541.4	16722.3
62.5°	9429.5	9679.3	11237.8	14718.6	17881.6	19155.0	19622.0	19548.7	19095.3	20251.9	17857.2
65°	7977.0	8194.2	9864.0	13567.4	17661.7	20045.6	21126.2	21164.2	20640.2	21862.0	18753.2
67.5°	5593.1	5753.3	7412.2	11150.9	16168.4	20338.8	22665.7	22662.9	21769.7	22687.4	18356.8
70°	3241.8	3461.8	4379.5	6893.6	12579.1	19005.7	22896.4	22975.2	21310.8	20963.3	15191.0
72.5°	1254.4	1436.3	2481.6	3662.7	6559.7	14558.4	19695.3	19926.1	17835.5	16171.1	10572.6
75°	374.7	418.1	1167.5	1949.4	2633.6	7032.1	13333.9	13399.0	12234.2	10086.6	5419.3
77.5°	279.7	309.5	510.4	985.6	923.1	2131.4	6899.1	7534.4	6494.5	3602.9	1493.3
80°	190.1	225.4	363.8	480.6	342.1	567.5	1938.6	2128.6	1982.0	809.1	374.7
82.5°	84.2	108.6	257.9	241.6	124.9	162.9	597.3	635.3	410.0	244.4	130.3
85°	8.1	10.9	97.7	105.9	46.2	38.0	124.9	124.9	89.6	84.2	54.3
87.5°	0.0	0.0	2.7	5.4	5.4	8.1	10.9	13.6	16.3	21.7	27.2
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°	5346.0	5346.0	5346.0	5346.0	5346.0	5346.0	5346.0	5346.0	5346.0	5346.0	5346.0
2.5°	5394.9	5362.3	5403.0	5435.6	5443.8	5384.0	5348.7	5297.2	5286.3	5289.0	5275.4
5°	5468.2	5451.9	5481.8	5446.5	5354.2	5180.4	5031.1	4865.5	4775.9	4724.3	4718.8
7.5°	5604.0	5595.8	5563.2	5403.0	5115.2	4729.7	4357.7	3993.9	3768.6	3687.1	3673.5
10°	5804.9	5788.6	5655.6	5275.4	4661.8	3920.6	3296.1	2774.8	2457.2	2364.9	2250.8
12.5°	6035.7	6003.1	5712.6	5001.2	3977.6	2951.3	2172.1	1588.3	1314.1	1232.7	1232.7
15°	6258.3	6187.7	5680.0	4547.8	3135.9	1919.6	1213.6	917.7	833.5	811.8	811.8
17.5°	6486.4	6350.6	5552.4	3928.7	2166.6	1134.9	809.1	752.1	741.2	743.9	746.7
20°	6700.9	6489.1	5327.0	3184.8	1382.0	792.8	724.9	711.4	705.9	711.4	708.6
22.5°	6934.4	6616.7	4984.9	2373.0	898.7	714.1	689.6	678.8	673.3	681.5	681.5
25°	7165.1	6709.0	4531.5	1596.5	714.1	665.2	651.6	640.8	635.3	638.0	638.0
27.5°	7284.6	6673.7	3936.9	1018.2	640.8	616.3	602.8	589.2	581.0	578.3	581.0
30°	7366.1	6565.1	3209.2	724.9	581.0	551.2	537.6	526.7	505.0	491.4	496.9
32.5°	7493.7	6456.5	2419.2	608.2	532.2	486.0	464.3	437.1	407.3	393.7	393.7
35°	7645.7	6307.2	1696.9	548.5	480.6	431.7	391.0	344.8	309.5	298.7	298.7
37.5°	7846.6	6166.0	1129.5	507.7	437.1	385.5	328.5	274.2	236.2	230.8	228.1
40°	8148.0	6046.5	795.5	477.9	399.1	336.7	268.8	211.8	184.6	176.5	176.5
42.5°	8539.0	5924.3	629.9	448.0	366.5	290.5	214.5	168.3	146.6	141.2	138.5
45°	9022.3	5780.4	548.5	420.8	334.0	241.6	171.1	141.2	124.9	119.5	119.5
47.5°	9546.3	5585.0	510.4	385.5	295.9	195.5	143.9	122.2	114.0	111.3	108.6
50°	10062.2	5321.6	477.9	353.0	252.5	160.2	124.9	111.3	105.9	103.2	103.2
52.5°	10512.9	5014.8	437.1	315.0	206.3	138.5	111.3	103.2	97.7	92.3	89.6
55°	10898.4	4680.8	385.5	271.5	168.3	122.2	103.2	95.0	89.6	84.2	81.5
57.5°	11395.3	4490.8	309.5	219.9	138.5	108.6	95.0	86.9	81.5	73.3	73.3
60°	11946.4	4352.3	230.8	173.8	119.5	100.5	86.9	78.7	73.3	65.2	65.2
62.5°	12389.0	4146.0	181.9	141.2	103.2	89.6	78.7	70.6	65.2	57.0	57.0
65°	12557.3	3719.7	149.3	111.3	84.2	78.7	70.6	65.2	57.0	48.9	48.9
67.5°	11797.1	2867.1	124.9	89.6	70.6	67.9	62.4	59.7	48.9	43.4	40.7
70°	9342.7	1748.5	103.2	73.3	59.7	57.0	57.0	51.6	43.4	40.7	38.0
72.5°	6402.2	901.4	84.2	59.7	51.6	51.6	48.9	46.2	40.7	38.0	38.0
75°	3326.0	301.4	65.2	46.2	40.7	43.4	43.4	40.7	38.0	38.0	35.3
77.5°	953.0	135.8	48.9	35.3	32.6	32.6	35.3	35.3	35.3	32.6	32.6
80°	247.1	78.7	35.3	27.2	27.2	27.2	27.2	29.9	32.6	29.9	29.9
82.5°	100.5	43.4	24.4	21.7	21.7	21.7	21.7	24.4	27.2	27.2	27.2
85°	62.4	21.7	19.0	19.0	19.0	16.3	16.3	19.0	19.0	21.7	21.7
87.5°	38.0	16.3	16.3	16.3	16.3	13.6	13.6	13.6	13.6	13.6	13.6
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)