

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: P638200

Luminaire Tested: GWS-SA4E-735-U-SL3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638200
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-735-U-SL3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24446 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

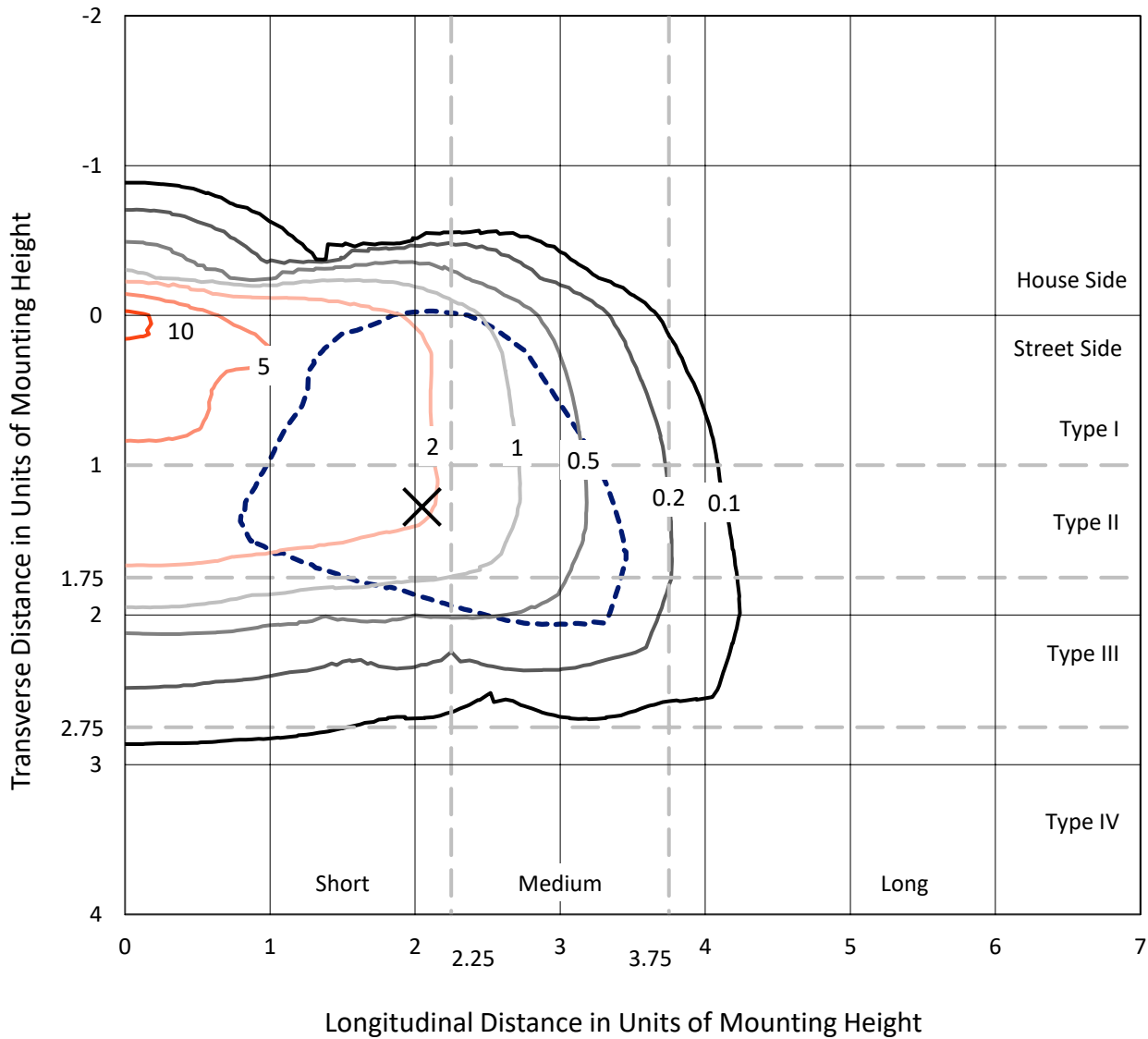
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

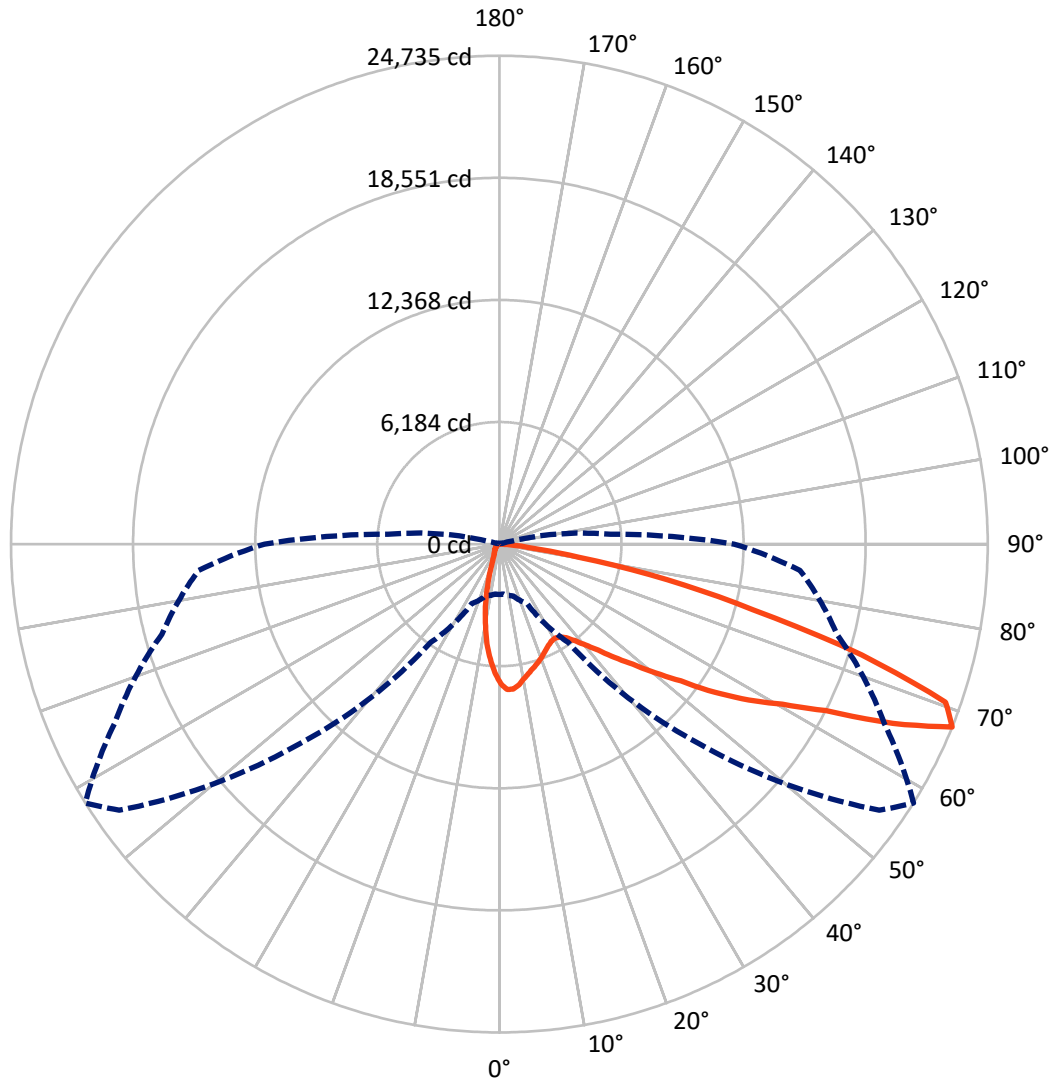
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2388.2	0.0	2388.2
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	22057.8	0.0	22057.8
	% Fixture	90.2	0.0	90.2
Total	Lumens	24446.0	0.0	24446.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	573.0	2.3
10°-20°	1192.8	4.9
20°-30°	1608.5	6.6
30°-40°	2260.3	9.2
40°-50°	3490.8	14.3
50°-60°	5582.3	22.8
60°-70°	6609.8	27.0
70°-80°	2924.0	12.0
80°-90°	204.4	0.8
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°	24446.0	100.0
0°-180°	24446.0	100.0

Coefficient of Utilization



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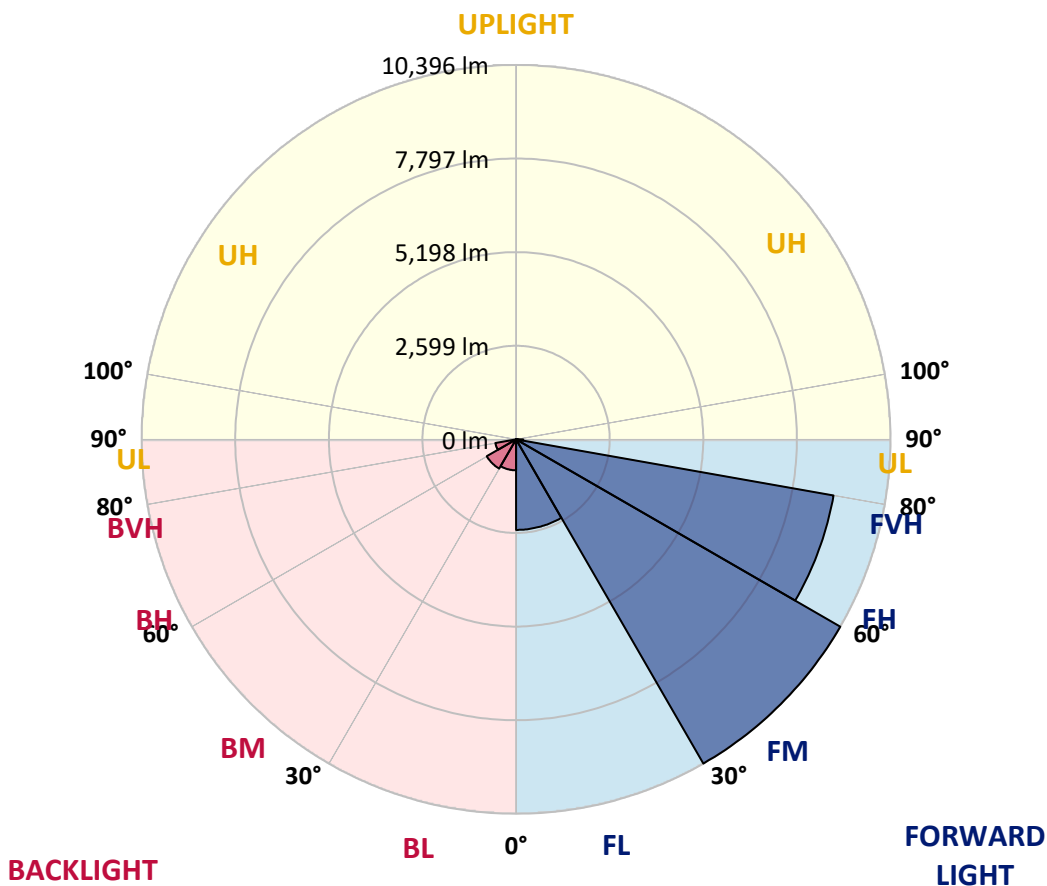
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2514.9	10.3			
FM (30°-60°)	10396.4	42.5			
FH (60°-80°)	8950.8	36.6			G4/12000
FVH (80°-90°)	195.7	0.8			G2/225
BL (0°-30°)	859.4	3.5	B2/1000		
BM (30°-60°)	937.1	3.8	B1/1000		
BH (60°-80°)	583.0	2.4	B2/1000		G2/1000
BVH (80°-90°)	8.7	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7051.4	7051.4	7051.4	7051.4	7051.4	7051.4	7051.4	7051.4	7051.4	7051.4	7051.4
2.5°	7417.0	7430.0	7447.3	7469.0	7464.6	7445.2	7421.4	7367.3	7332.6	7224.5	7092.5
5°	7179.0	7176.9	7220.1	7261.2	7334.8	7373.8	7427.9	7378.1	7360.8	7231.0	7016.8
7.5°	6713.8	6737.6	6787.4	6852.3	6958.3	7073.0	7202.8	7187.7	7239.6	7153.1	6886.9
10°	6257.3	6244.3	6322.2	6419.6	6581.9	6729.0	6917.2	6915.1	7051.4	7042.7	6739.8
12.5°	5857.0	5854.9	5915.5	6025.8	6216.2	6421.7	6677.1	6683.6	6852.3	6921.6	6614.3
15°	5519.5	5523.8	5582.2	5696.9	5893.8	6144.8	6441.2	6495.3	6685.7	6826.4	6491.0
17.5°	5279.3	5281.5	5316.1	5415.6	5608.2	5876.5	6233.5	6307.1	6551.6	6755.0	6391.5
20°	5169.0	5160.3	5166.8	5216.6	5365.9	5610.4	6021.5	6116.7	6428.2	6705.2	6300.6
22.5°	5184.1	5171.2	5140.9	5134.4	5201.4	5387.5	5796.4	5913.3	6294.1	6674.9	6218.4
25°	5318.3	5290.2	5246.9	5182.0	5156.0	5249.0	5599.6	5720.7	6168.6	6677.1	6155.6
27.5°	5523.8	5493.5	5439.4	5352.9	5251.2	5212.3	5465.4	5580.1	6079.9	6726.8	6125.3
30°	5785.6	5761.8	5709.9	5606.0	5469.7	5309.6	5437.3	5532.5	6036.6	6828.5	6138.3
32.5°	6095.0	6077.7	6034.5	5939.3	5783.5	5539.0	5532.5	5606.0	6071.2	6975.6	6188.1
35°	6393.6	6400.1	6402.3	6350.3	6183.7	5887.3	5794.3	5820.3	6214.0	7196.3	6300.6
37.5°	6716.0	6700.9	6778.8	6815.5	6655.4	6339.5	6198.9	6201.1	6486.7	7523.1	6512.6
40°	6960.5	6964.8	7133.6	7285.0	7218.0	6912.9	6711.7	6709.5	6906.4	7970.9	6854.5
42.5°	7189.8	7218.0	7466.8	7726.4	7819.5	7549.0	7404.1	7350.0	7494.9	8576.8	7367.3
45°	7434.3	7475.5	7823.8	8193.8	8438.3	8278.2	8163.5	8185.1	8202.4	9282.1	8057.5
47.5°	7719.9	7745.9	8176.5	8697.9	9154.5	9113.3	9119.8	9093.9	9085.2	10171.4	8970.5
50°	8066.1	8126.7	8622.2	9245.3	9868.5	10141.1	10232.0	10242.8	10102.1	11140.7	9916.1
52.5°	8801.8	8875.3	9299.4	9844.7	10647.4	11220.7	11590.7	11517.2	11300.8	12079.7	10952.5
55°	9669.4	9725.7	10134.6	10699.3	11599.4	12404.3	13282.7	13252.4	12722.3	13068.5	11804.9
57.5°	9751.6	9814.4	10448.3	11313.8	12821.9	13866.9	14790.8	14888.2	14111.4	13769.5	12566.5
60°	8827.7	8955.4	9820.9	10984.9	13289.2	15833.7	16443.8	16463.3	15130.5	14481.4	13496.9
62.5°	7075.2	7135.8	8007.7	9526.6	12568.7	16980.4	18968.8	18557.7	16439.5	15582.7	14970.4
65°	3708.5	3955.2	4714.6	6395.8	10193.0	16580.1	22006.6	21894.1	18793.6	17160.0	16117.1
67.5°	2544.5	2542.3	2721.9	3334.2	6077.7	14275.8	23497.4	24735.0	21515.5	17700.9	15286.3
70°	1936.5	1943.0	2103.1	2501.2	3148.1	9502.8	21861.6	23977.7	22021.7	16071.7	12363.2
72.5°	1285.2	1298.2	1564.3	2020.9	2514.2	4658.4	16989.1	19185.2	18529.6	12908.4	8702.2
75°	768.1	778.9	969.3	1469.1	2235.1	2607.2	10794.5	13263.2	12754.8	8897.0	4664.9
77.5°	315.9	324.5	497.6	915.2	1635.7	2025.2	5969.5	8678.4	7639.9	3537.6	1274.4
80°	132.0	136.3	240.2	640.4	1179.2	1270.1	2765.2	4078.5	3130.8	761.6	389.5
82.5°	47.6	49.8	88.7	352.7	733.5	956.3	1395.6	1611.9	882.8	248.8	209.9
85°	2.2	2.2	21.6	119.0	279.1	270.5	798.4	772.4	292.1	103.9	125.5
87.5°	0.0	0.0	2.2	2.2	4.3	10.8	75.7	134.1	62.7	26.0	54.1
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°	7051.4	7051.4	7051.4	7051.4	7051.4	7051.4	7051.4	7051.4	7051.4	7051.4	7051.4
2.5°	7005.9	6891.3	6765.8	6648.9	6462.9	6352.5	6216.2	6155.6	6069.1	6047.4	6060.4
5°	6863.1	6666.2	6365.5	6092.9	5740.2	5456.8	5171.2	5050.0	4894.2	4790.3	4747.1
7.5°	6661.9	6404.4	5934.9	5439.4	4954.8	4437.7	4043.9	3784.2	3548.4	3418.6	3392.6
10°	6458.5	6123.2	5450.3	4740.6	3989.8	3371.0	2838.7	2444.9	2124.7	1979.8	1867.2
12.5°	6248.7	5831.1	4956.9	4030.9	3158.9	2315.1	1657.4	1274.4	1045.0	954.2	969.3
15°	6056.1	5549.8	4468.0	3321.2	2224.2	1397.7	915.2	772.4	718.3	701.0	698.9
17.5°	5872.2	5283.7	3981.1	2631.0	1467.0	856.8	701.0	666.4	651.3	642.6	642.6
20°	5705.6	5028.3	3505.1	1981.9	947.7	679.4	634.0	616.6	603.7	597.2	597.2
22.5°	5549.8	4781.7	3039.9	1402.1	698.9	610.2	582.0	564.7	549.6	540.9	540.9
25°	5409.2	4558.8	2596.4	965.0	601.5	558.2	527.9	508.5	482.5	467.4	467.4
27.5°	5307.5	4359.8	2170.2	703.2	543.1	502.0	467.4	441.4	413.3	396.0	391.6
30°	5246.9	4191.0	1739.6	577.7	489.0	447.9	408.9	376.5	344.0	326.7	324.5
32.5°	5212.3	4035.2	1345.8	504.1	443.6	396.0	352.7	318.1	285.6	266.1	264.0
35°	5225.2	3914.1	1008.3	454.4	400.3	350.5	302.9	268.3	240.2	222.9	218.5
37.5°	5337.8	3860.0	757.3	415.4	363.5	311.6	261.8	229.3	203.4	190.4	188.2
40°	5556.3	3870.8	595.0	385.1	333.2	272.6	225.0	194.7	175.3	164.4	162.3
42.5°	5896.0	3961.7	491.2	359.2	300.7	238.0	194.7	170.9	151.5	140.6	138.5
45°	6402.3	4149.9	428.4	328.9	266.1	205.5	168.8	147.1	129.8	116.8	114.7
47.5°	7135.8	4476.6	387.3	300.7	235.8	177.4	145.0	123.3	108.2	97.4	95.2
50°	7916.8	4868.2	352.7	272.6	209.9	153.6	123.3	101.7	88.7	77.9	75.7
52.5°	8749.8	5290.2	326.7	246.7	186.1	132.0	103.9	84.4	71.4	60.6	58.4
55°	9550.4	5714.2	296.4	229.3	157.9	112.5	86.5	69.2	56.3	47.6	47.6
57.5°	10329.3	6103.7	264.0	201.2	129.8	95.2	71.4	56.3	45.4	38.9	36.8
60°	11259.7	6642.4	227.2	170.9	108.2	80.1	58.4	45.4	36.8	30.3	30.3
62.5°	12642.3	7202.8	194.7	142.8	90.9	67.1	47.6	36.8	30.3	26.0	23.8
65°	13094.5	6899.9	164.4	116.8	73.6	54.1	38.9	32.5	26.0	23.8	21.6
67.5°	11887.2	5655.8	136.3	95.2	60.6	45.4	34.6	28.1	23.8	21.6	19.5
70°	9275.6	4013.6	106.0	71.4	49.8	36.8	30.3	26.0	21.6	19.5	19.5
72.5°	6309.2	2373.5	84.4	54.1	41.1	32.5	26.0	23.8	21.6	19.5	17.3
75°	3107.0	843.8	64.9	41.1	32.5	28.1	23.8	21.6	19.5	17.3	17.3
77.5°	837.3	233.7	49.8	32.5	26.0	21.6	21.6	21.6	19.5	15.1	15.1
80°	283.4	97.4	36.8	23.8	21.6	17.3	15.1	19.5	17.3	15.1	13.0
82.5°	155.8	47.6	26.0	19.5	15.1	13.0	13.0	13.0	13.0	10.8	10.8
85°	99.5	26.0	17.3	15.1	15.1	10.8	8.7	8.7	6.5	6.5	6.5
87.5°	45.4	15.1	15.1	13.0	13.0	10.8	6.5	4.3	2.2	2.2	2.2
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)