

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: P638367

Luminaire Tested: GWS-SA4E-760-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638367
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-760-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24326.7 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

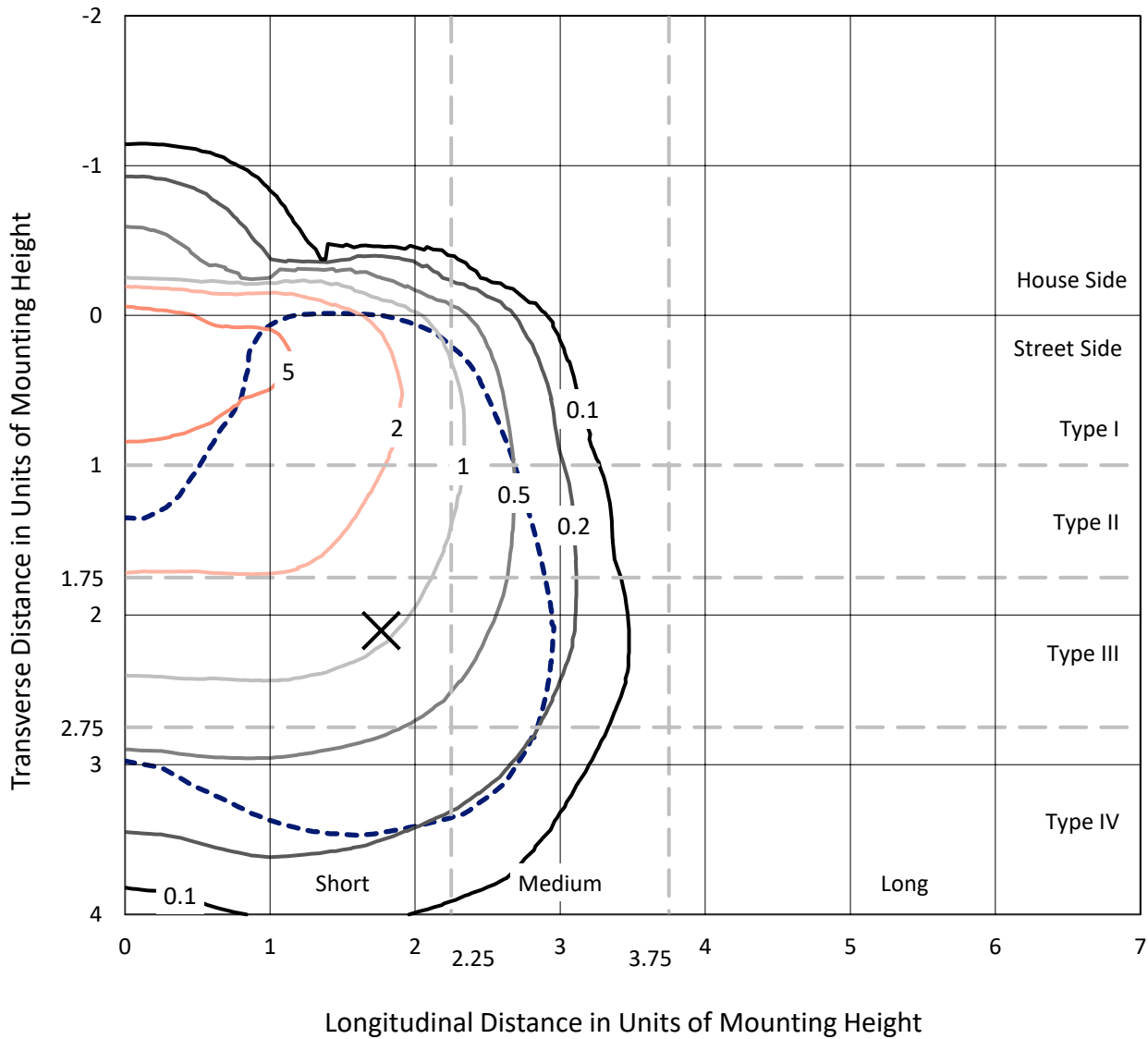
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

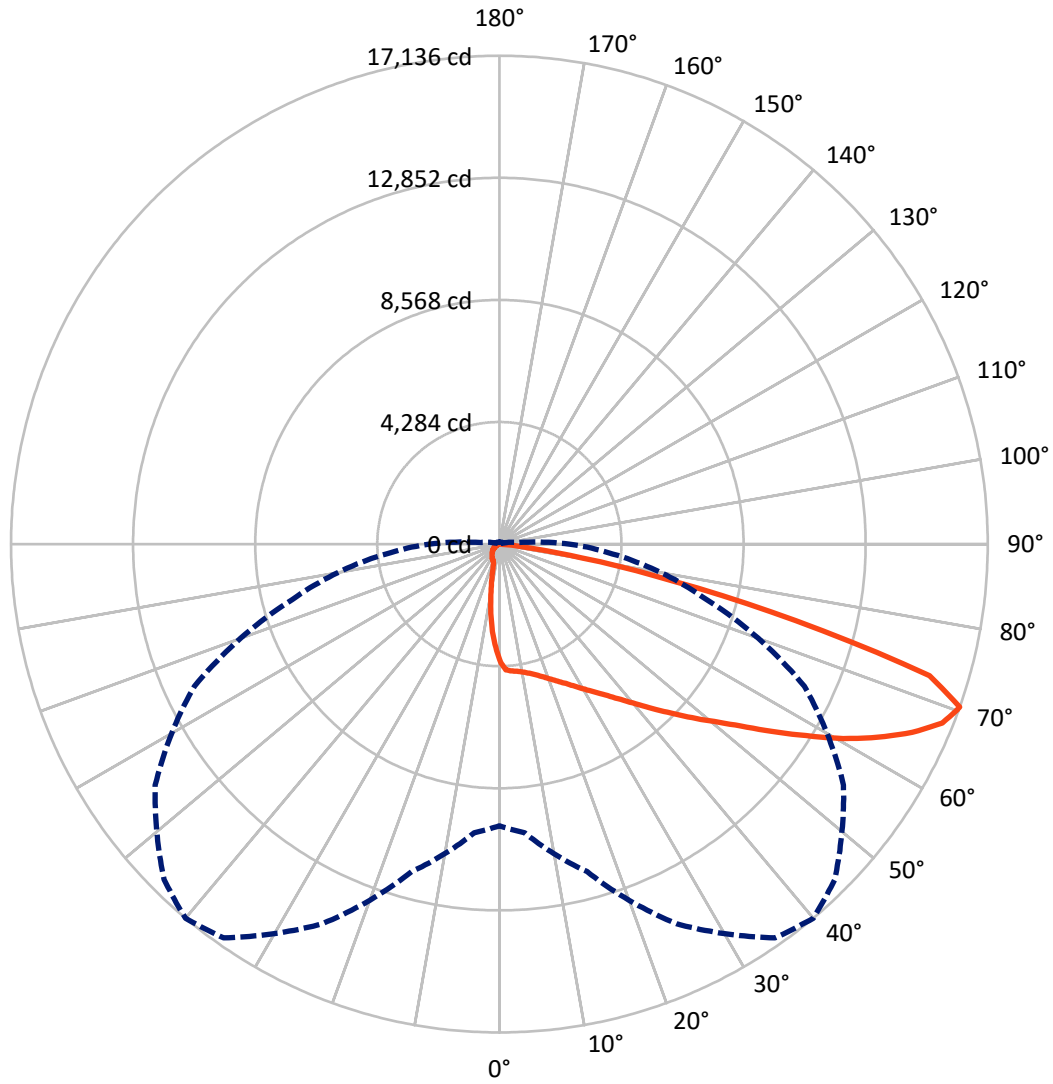
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1989.3	0.0	1989.3
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	22337.4	0.0	22337.4
	% Fixture	91.8	0.0	91.8
Total	Lumens	24326.7	0.0	24326.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.9	1.4
10°-20°	884.9	3.6
20°-30°	1481.0	6.1
30°-40°	2326.1	9.6
40°-50°	3679.3	15.1
50°-60°	5367.2	22.1
60°-70°	6653.4	27.4
70°-80°	3366.2	13.8
80°-90°	219.8	0.9
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°	24326.7	100.0
0°-180°	24326.7	100.0

Coefficient of Utilization



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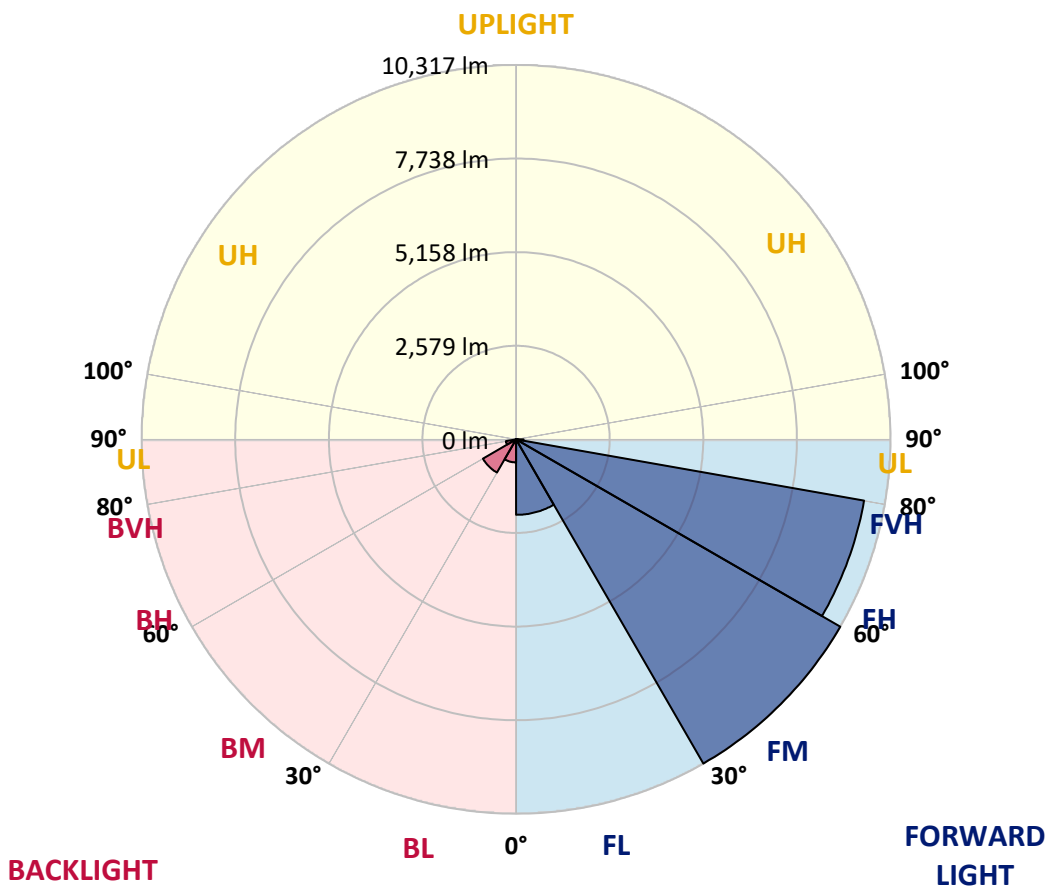
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2079.5	8.5			
FM (30°-60°)	10316.7	42.4			
FH (60°-80°)	9736.0	40.0			G4/12000
FVH (80°-90°)	205.3	0.8			G2/225
BL (0°-30°)	635.3	2.6	B2/1000		
BM (30°-60°)	1055.9	4.3	B2/2500		
BH (60°-80°)	283.6	1.2	B1/500		G1/500
BVH (80°-90°)	14.5	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4127.9	4127.9	4127.9	4127.9	4127.9	4127.9	4127.9	4127.9	4127.9	4127.9	4127.9
2.5°	4437.8	4453.3	4451.1	4457.7	4442.2	4417.9	4413.5	4380.3	4320.5	4245.3	4161.2
5°	4528.6	4546.3	4533.0	4526.4	4497.6	4471.0	4464.4	4429.0	4360.4	4258.5	4112.5
7.5°	4606.0	4610.5	4601.6	4586.1	4544.1	4508.7	4484.3	4435.6	4353.7	4251.9	4083.7
10°	4619.3	4617.1	4621.5	4623.7	4597.2	4566.2	4546.3	4479.9	4375.8	4267.4	4085.9
12.5°	4603.8	4603.8	4632.6	4665.8	4665.8	4650.3	4630.4	4570.6	4448.9	4320.5	4130.2
15°	4623.7	4630.4	4685.7	4747.7	4767.6	4752.1	4743.3	4681.3	4555.1	4413.5	4209.8
17.5°	4694.6	4701.2	4789.7	4882.7	4907.1	4889.4	4871.6	4809.7	4674.7	4519.7	4300.6
20°	4798.6	4816.3	4929.2	5048.7	5070.8	5048.7	5013.3	4927.0	4792.0	4634.8	4386.9
22.5°	4989.0	5000.0	5121.8	5247.9	5259.0	5223.6	5170.5	5050.9	4909.3	4756.5	4484.3
25°	5241.3	5256.8	5378.5	5500.2	5471.5	5418.3	5345.3	5210.3	5048.7	4900.4	4608.3
27.5°	5542.3	5560.0	5679.5	5785.8	5710.5	5648.5	5566.6	5398.4	5234.6	5099.6	4767.6
30°	5867.7	5883.2	5989.4	6084.6	5985.0	5911.9	5814.5	5641.9	5475.9	5374.1	4993.4
32.5°	6182.0	6179.8	6281.6	6359.0	6257.2	6199.7	6111.1	5936.3	5803.5	5759.2	5329.8
35°	6474.1	6474.1	6558.2	6635.7	6562.7	6531.7	6449.8	6310.3	6235.1	6288.2	5779.1
37.5°	6768.5	6753.0	6832.7	6919.0	6912.4	6914.6	6868.1	6801.7	6806.1	6994.3	6396.7
40°	7012.0	7005.3	7098.3	7211.2	7299.7	7370.5	7341.8	7366.1	7505.6	7857.5	7186.8
42.5°	7206.8	7222.3	7341.8	7521.1	7744.6	7888.5	7908.4	8008.0	8366.6	8911.1	8078.8
45°	7430.3	7432.5	7598.5	7873.0	8229.3	8457.3	8537.0	8793.7	9302.8	10004.5	9057.1
47.5°	7704.8	7678.2	7864.1	8249.3	8765.0	9101.4	9243.1	9564.0	10352.0	11071.3	9854.0
50°	8008.0	7959.3	8169.6	8694.1	9364.8	9785.3	10073.1	10542.3	11392.3	11947.8	10447.1
52.5°	8359.9	8313.4	8552.5	9205.4	10084.1	10595.4	10965.1	11438.7	12284.2	12616.3	10801.3
55°	8807.0	8760.5	9012.9	9818.5	10934.1	11598.1	11985.4	12383.8	13114.3	13109.8	11058.0
57.5°	9302.8	9238.6	9588.4	10593.2	11994.3	12684.9	13078.8	13273.6	13745.1	13492.8	11230.7
60°	9871.7	9814.1	10298.8	11516.2	13218.3	13858.0	14105.9	14026.2	14263.0	13718.5	11170.9
62.5°	10385.2	10358.6	10960.6	12494.5	14384.7	14924.8	14993.4	14645.9	14643.7	13722.9	10768.1
65°	10918.6	10969.5	11863.7	13621.1	15557.8	15920.8	15803.5	15261.2	14796.4	13180.7	9577.3
67.5°	11117.8	11266.1	12459.1	14639.3	16483.0	16766.3	16560.5	15568.9	14161.2	11356.8	7293.1
70°	9887.2	10166.0	11896.9	14696.8	16865.9	17136.0	16642.4	14741.1	11806.2	7523.3	3995.1
72.5°	7518.8	7844.2	9913.7	12034.1	15168.3	15783.6	14940.3	12009.8	7609.6	3295.7	1341.3
75°	4207.6	4559.6	7383.8	9061.6	10183.8	10745.9	10436.1	7704.8	3371.0	861.0	400.6
77.5°	1423.2	1540.5	3435.2	5606.5	6722.0	6217.4	5263.4	3826.9	1239.5	327.6	212.5
80°	843.3	887.6	1279.3	2791.1	3537.0	2932.7	2315.2	1414.3	630.8	174.9	148.3
82.5°	252.3	298.8	706.1	1035.9	1385.6	863.2	730.4	807.9	327.6	95.2	123.9
85°	0.0	0.0	150.5	320.9	363.0	141.7	141.7	458.2	59.8	39.8	90.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	11.1	6.6	8.9	19.9
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°	4127.9	4127.9	4127.9	4127.9	4127.9	4127.9	4127.9	4127.9	4127.9	4127.9	4127.9
2.5°	4101.4	4023.9	3933.2	3846.9	3765.0	3658.7	3607.8	3545.8	3492.7	3463.9	3479.4
5°	4019.5	3897.8	3711.8	3523.7	3333.3	3154.1	2992.5	2884.0	2786.6	2735.7	2746.8
7.5°	3948.7	3784.9	3494.9	3187.3	2881.8	2574.2	2324.0	2129.3	1978.8	1916.8	1905.7
10°	3917.7	3711.8	3302.4	2859.7	2390.4	1976.5	1622.4	1407.7	1255.0	1179.7	1193.0
12.5°	3933.2	3674.2	3138.6	2538.7	1930.1	1447.5	1108.9	907.5	799.0	754.8	743.7
15°	3977.4	3665.4	2992.5	2211.2	1489.6	1011.5	765.8	683.9	661.8	657.4	657.4
17.5°	4028.3	3667.6	2842.0	1879.2	1131.0	750.3	655.2	639.7	633.0	628.6	630.8
20°	4079.3	3667.6	2669.3	1542.7	849.9	648.5	624.2	613.1	606.5	604.3	604.3
22.5°	4141.2	3667.6	2476.8	1230.6	681.7	615.3	595.4	588.8	582.1	579.9	577.7
25°	4216.5	3669.8	2264.3	962.8	619.7	586.5	571.1	564.4	557.8	553.3	553.3
27.5°	4324.9	3687.5	2029.7	750.3	584.3	560.0	546.7	540.1	533.4	526.8	526.8
30°	4482.1	3731.8	1766.3	619.7	551.1	531.2	517.9	513.5	506.9	500.2	498.0
32.5°	4716.7	3809.2	1494.0	555.6	520.1	500.2	484.7	480.3	473.7	467.0	464.8
35°	5044.3	3950.9	1228.4	515.7	480.3	460.4	451.5	449.3	440.5	433.8	433.8
37.5°	5524.6	4181.1	973.9	475.9	447.1	431.6	420.5	416.1	407.3	400.6	398.4
40°	6111.1	4479.9	757.0	444.9	416.1	400.6	389.6	382.9	371.8	363.0	358.6
42.5°	6859.3	4845.1	597.6	411.7	387.3	371.8	363.0	349.7	334.2	320.9	318.7
45°	7638.4	5221.4	493.6	380.7	360.8	347.5	336.4	318.7	296.6	281.1	276.7
47.5°	8236.0	5456.0	431.6	347.5	332.0	320.9	307.7	285.5	259.0	241.3	236.8
50°	8663.2	5491.4	385.1	316.5	307.7	296.6	276.7	250.1	221.3	203.6	199.2
52.5°	8873.4	5332.0	347.5	287.7	281.1	270.0	245.7	216.9	185.9	168.2	163.8
55°	8968.6	5031.0	312.1	263.4	254.5	241.3	214.7	183.7	152.7	137.2	132.8
57.5°	8931.0	4586.1	281.1	239.0	228.0	212.5	183.7	150.5	126.2	110.7	108.5
60°	8652.1	3961.9	250.1	214.7	201.4	183.7	154.9	123.9	101.8	90.7	88.5
62.5°	8050.1	3187.3	219.1	185.9	177.1	159.4	132.8	101.8	84.1	77.5	75.3
65°	6817.2	2253.2	188.1	157.1	152.7	135.0	110.7	84.1	73.0	68.6	66.4
67.5°	4900.4	1370.1	159.4	135.0	130.6	115.1	93.0	73.0	66.4	64.2	64.2
70°	2463.5	648.5	126.2	110.7	110.7	95.2	79.7	66.4	64.2	62.0	62.0
72.5°	836.7	276.7	95.2	86.3	90.7	81.9	68.6	62.0	62.0	62.0	62.0
75°	285.5	146.1	66.4	62.0	66.4	66.4	59.8	59.8	62.0	62.0	62.0
77.5°	185.9	97.4	46.5	42.1	50.9	50.9	50.9	55.3	59.8	59.8	59.8
80°	152.7	53.1	31.0	28.8	37.6	37.6	42.1	50.9	55.3	55.3	55.3
82.5°	130.6	33.2	17.7	19.9	26.6	28.8	35.4	42.1	48.7	50.9	50.9
85°	88.5	17.7	13.3	15.5	17.7	22.1	28.8	35.4	39.8	44.3	44.3
87.5°	24.3	6.6	8.9	11.1	11.1	15.5	22.1	26.6	31.0	33.2	33.2
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)