

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: P643668

Luminaire Tested: GWS-SA6F-735-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643668
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-735-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36037.8 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

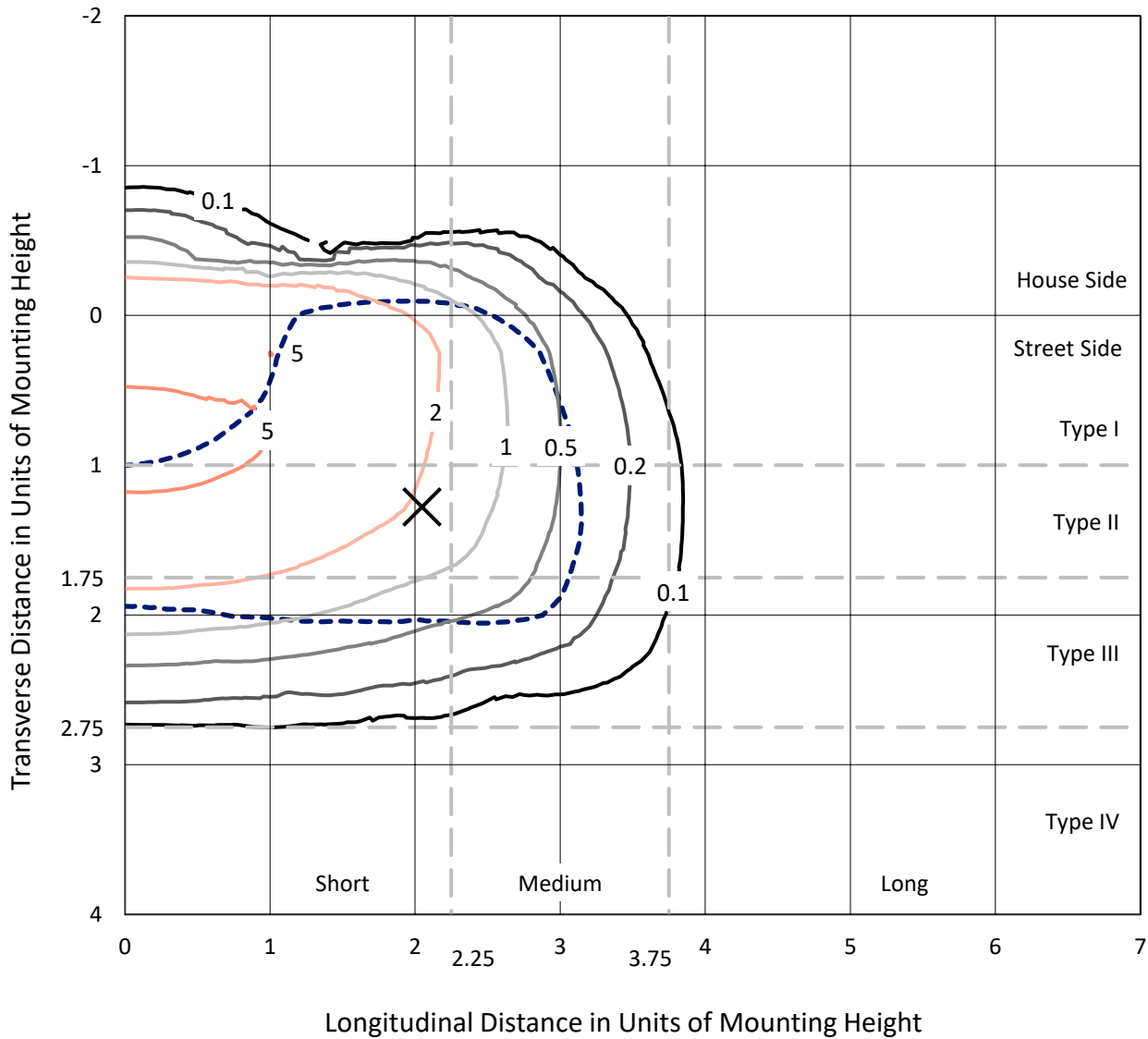
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

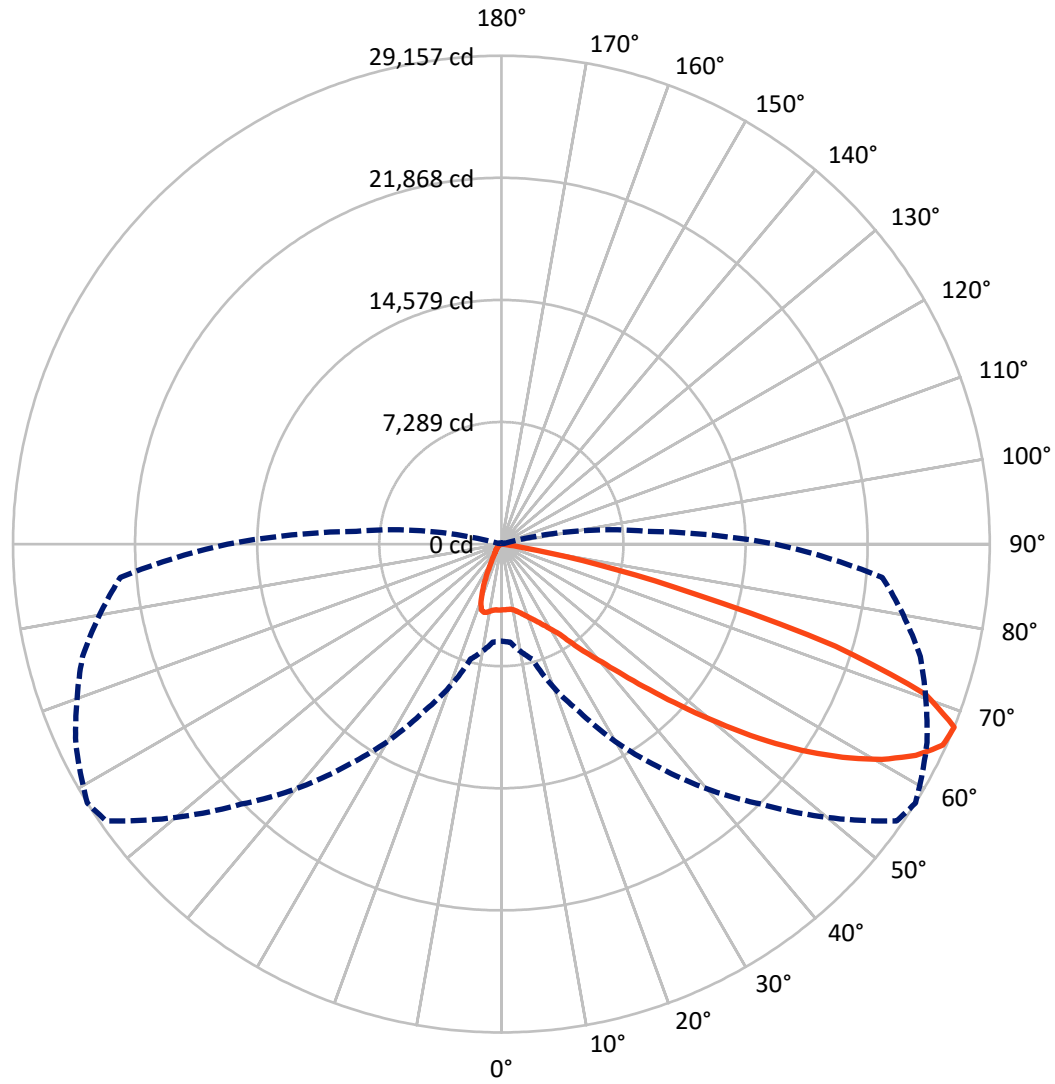
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 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	3931.6	0.0	3931.6
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	32106.2	0.0	32106.2
	% Fixture	89.1	0.0	89.1
Total	Lumens	36037.8	0.0	36037.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.9	1.0
10°-20°	1035.8	2.9
20°-30°	1807.9	5.0
30°-40°	3228.8	9.0
40°-50°	5901.6	16.4
50°-60°	9814.9	27.2
60°-70°	10660.7	29.6
70°-80°	3130.1	8.7
80°-90°	89.1	0.2
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°	36037.8	100.0
0°-180°	36037.8	100.0

Coefficient of Utilization



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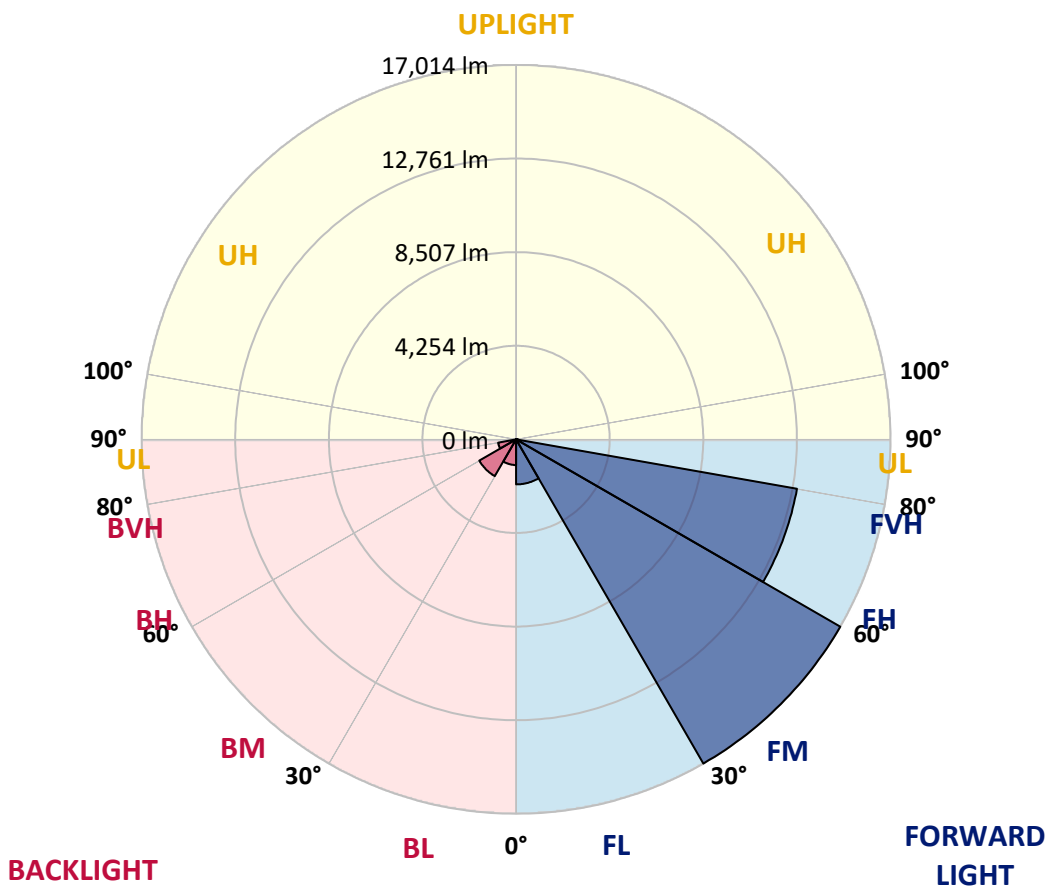
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2046.4	5.7			
FM (30°-60°)	17014.2	47.2			
FH (60°-80°)	12960.8	36.0			G5
FVH (80°-90°)	84.8	0.2			G1/100
BL (0°-30°)	1166.2	3.2	B3/2500		
BM (30°-60°)	1931.1	5.4	B2/2500		
BH (60°-80°)	830.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3927.0	3927.0	3927.0	3927.0	3927.0	3927.0	3927.0	3927.0	3927.0	3927.0	3927.0
2.5°	3853.1	3846.1	3846.1	3874.3	3877.8	3891.9	3923.5	3927.0	3944.6	3937.6	3913.0
5°	3652.6	3656.1	3677.2	3726.5	3768.7	3821.5	3898.9	3916.5	3955.2	3976.3	3962.2
7.5°	3466.1	3469.6	3501.3	3578.7	3659.6	3765.2	3891.9	3927.0	4004.5	4060.8	4064.3
10°	3395.7	3392.2	3423.8	3511.8	3617.4	3765.2	3948.2	3993.9	4110.0	4208.6	4226.1
12.5°	3416.8	3413.3	3445.0	3525.9	3642.0	3828.5	4046.7	4110.0	4257.8	4409.1	4440.8
15°	3501.3	3497.7	3518.9	3585.7	3712.4	3905.9	4173.4	4268.4	4454.9	4637.9	4687.1
17.5°	3754.6	3737.0	3715.9	3722.9	3796.8	3997.4	4335.2	4451.4	4683.6	4901.8	4944.0
20°	4205.0	4159.3	4103.0	4029.1	3993.9	4131.1	4521.7	4655.4	4937.0	5186.8	5193.8
22.5°	4884.2	4866.6	4736.4	4521.7	4370.4	4373.9	4739.9	4894.7	5239.6	5514.0	5475.3
25°	5830.7	5820.2	5619.6	5267.7	4873.6	4739.9	5017.9	5176.2	5598.5	5890.6	5767.4
27.5°	7006.0	6932.1	6696.4	6221.3	5633.7	5214.9	5369.8	5510.5	5978.5	6253.0	6020.8
30°	8030.0	8033.5	7811.9	7315.7	6654.2	5929.3	5799.1	5922.2	6326.9	6615.4	6333.9
32.5°	9015.3	9047.0	8804.2	8357.3	7632.4	6861.8	6414.9	6436.0	6773.8	7087.0	6745.6
35°	9930.2	9954.8	9785.9	9405.9	8730.3	7836.5	7273.5	7262.9	7445.9	7766.1	7319.2
37.5°	10954.2	10978.8	10813.4	10472.1	9838.7	8952.0	8248.2	8234.1	8308.0	8568.4	8058.2
40°	12045.0	12090.8	11907.8	11619.3	11014.0	10264.5	9381.3	9254.6	9180.7	9486.8	9015.3
42.5°	13150.0	13220.3	13157.0	12868.5	12351.2	11731.9	10852.2	10655.1	10496.7	10880.3	10380.6
45°	14522.3	14606.8	14578.6	14356.9	13955.8	13452.6	12622.1	12393.4	12319.5	12674.9	12080.2
47.5°	15841.9	15933.4	16035.4	15986.2	15701.1	15468.9	14547.0	14416.8	14395.6	14775.7	13853.7
50°	16823.7	16908.1	17298.7	17580.2	17773.7	17724.5	16925.7	16732.2	16700.5	16943.3	15725.8
52.5°	17527.4	17608.4	18146.7	19026.5	19737.3	20124.3	19318.5	19276.3	19103.9	19019.4	17478.2
55°	18072.8	18185.4	18752.0	20082.1	21514.3	22372.9	21869.7	21718.4	21275.0	20789.4	19103.9
57.5°	18181.9	18227.7	19026.5	20821.1	22893.7	24283.6	24283.6	24019.7	23164.6	22492.5	20982.9
60°	17203.7	17344.4	18424.7	20761.3	23484.8	25532.8	26285.9	26102.9	24948.7	24121.8	22791.6
62.5°	15032.6	15190.9	16507.0	19329.1	22893.7	25789.7	27802.5	27774.3	26472.4	25469.5	24290.7
65°	11527.8	11643.9	12791.0	16169.1	20395.3	24800.9	28886.3	28963.7	27675.8	26359.8	24807.9
67.5°	5792.0	5873.0	7111.6	11045.7	16165.6	21954.1	28812.4	29157.2	28041.8	25888.2	22833.9
70°	2023.3	2104.3	2688.4	4739.9	9838.7	16763.8	26321.0	26884.1	25891.7	22098.4	16844.8
72.5°	693.2	731.9	1115.5	1759.4	3828.5	9937.2	20015.3	20863.3	19086.3	14835.5	9680.4
75°	394.1	418.7	598.2	953.6	1604.6	3269.0	11355.3	11876.1	11126.6	8086.3	3983.3
77.5°	267.4	288.5	373.0	541.9	886.8	1052.1	4630.8	5830.7	5084.7	2639.1	1016.9
80°	158.3	172.4	228.7	320.2	453.9	408.2	992.3	1319.6	1699.6	788.2	306.1
82.5°	73.9	84.5	147.8	211.1	228.7	172.4	292.1	355.4	478.6	387.1	126.7
85°	0.0	0.0	49.3	88.0	84.5	49.3	80.9	88.0	130.2	193.5	49.3
87.5°	0.0	0.0	0.0	0.0	0.0	3.5	7.0	10.6	21.1	38.7	21.1
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°	3927.0	3927.0	3927.0	3927.0	3927.0	3927.0	3927.0	3927.0	3927.0	3927.0	3927.0
2.5°	3941.1	3916.5	3944.6	3930.6	3944.6	3941.1	3913.0	3895.4	3895.4	3863.7	3853.1
5°	3990.4	3965.8	3972.8	3941.1	3934.1	3916.5	3881.3	3867.2	3867.2	3835.6	3825.0
7.5°	4099.5	4060.8	4053.7	3990.4	3962.2	3913.0	3849.6	3825.0	3821.5	3789.8	3779.3
10°	4271.9	4226.1	4194.5	4113.5	4032.6	3934.1	3800.4	3687.8	3624.4	3540.0	3532.9
12.5°	4483.0	4426.7	4377.5	4254.3	4120.6	3898.9	3504.8	3093.1	2839.7	2639.1	2653.2
15°	4718.8	4666.0	4588.6	4402.1	4127.6	3550.5	2727.1	2093.7	1784.1	1618.7	1611.6
17.5°	4975.7	4898.2	4771.6	4518.2	3905.9	2713.0	1773.5	1252.7	1090.8	1034.5	1020.5
20°	5214.9	5119.9	4961.6	4542.8	3265.5	1836.8	1108.4	971.2	943.1	925.5	925.5
22.5°	5468.3	5348.7	5112.9	4352.8	2428.0	1175.3	943.1	911.4	890.3	865.6	862.1
25°	5725.2	5570.3	5250.1	3856.7	1590.5	925.5	883.2	848.0	809.3	770.6	760.1
27.5°	5943.3	5742.8	5355.7	3117.7	1020.5	834.0	805.8	746.0	693.2	651.0	644.0
30°	6203.7	5946.9	5401.4	2280.2	802.3	735.4	693.2	629.9	566.5	524.3	510.2
32.5°	6552.1	6270.6	5331.1	1485.0	710.8	647.5	580.6	506.7	443.4	397.6	390.6
35°	7094.0	6759.7	5007.3	946.6	644.0	559.5	478.6	401.1	348.4	313.2	306.1
37.5°	7755.6	7445.9	4476.0	710.8	577.1	485.6	390.6	316.7	278.0	253.4	246.3
40°	8737.3	8304.5	3818.0	622.8	510.2	411.7	320.2	260.4	232.2	211.1	204.1
42.5°	10011.1	9317.9	3061.4	566.5	446.9	344.8	260.4	214.7	190.0	175.9	172.4
45°	11499.6	10306.7	2262.6	510.2	387.1	285.0	214.7	175.9	158.3	147.8	144.3
47.5°	13023.3	11172.4	1562.4	450.4	330.8	235.8	179.5	151.3	137.2	123.2	119.6
50°	14649.0	11904.3	1066.2	390.6	281.5	193.5	154.8	137.2	119.6	109.1	105.6
52.5°	15841.9	12175.2	742.5	337.8	239.3	165.4	137.2	123.2	109.1	95.0	91.5
55°	16943.3	12168.2	563.0	285.0	204.1	144.3	123.2	109.1	95.0	84.5	80.9
57.5°	18041.2	12073.2	443.4	242.8	175.9	130.2	109.1	95.0	88.0	73.9	70.4
60°	18752.0	11714.3	344.8	204.1	151.3	112.6	95.0	84.5	73.9	63.3	59.8
62.5°	19128.5	11214.6	263.9	161.9	123.2	98.5	84.5	73.9	63.3	52.8	49.3
65°	18618.3	10327.8	207.6	126.7	95.0	84.5	70.4	59.8	49.3	38.7	35.2
67.5°	16355.6	8709.2	161.9	102.0	73.9	63.3	59.8	49.3	35.2	28.2	24.6
70°	11559.4	5964.5	126.7	77.4	56.3	49.3	45.7	38.7	28.2	21.1	17.6
72.5°	6344.5	3008.6	91.5	56.3	42.2	38.7	35.2	31.7	24.6	17.6	17.6
75°	2442.1	826.9	66.9	38.7	28.2	28.2	24.6	24.6	21.1	14.1	14.1
77.5°	636.9	246.3	42.2	24.6	17.6	17.6	17.6	14.1	14.1	10.6	10.6
80°	204.1	80.9	24.6	17.6	14.1	10.6	10.6	7.0	10.6	7.0	7.0
82.5°	66.9	28.2	14.1	14.1	10.6	7.0	7.0	3.5	3.5	0.0	0.0
85°	24.6	14.1	10.6	7.0	7.0	7.0	3.5	0.0	0.0	0.0	0.0
87.5°	14.1	7.0	7.0	7.0	7.0	3.5	0.0	0.0	0.0	0.0	0.0
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)