

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: P637976

Luminaire Tested: GWS-SA4D-830-U-SL2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637976
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-830-U-SL2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15421.3 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

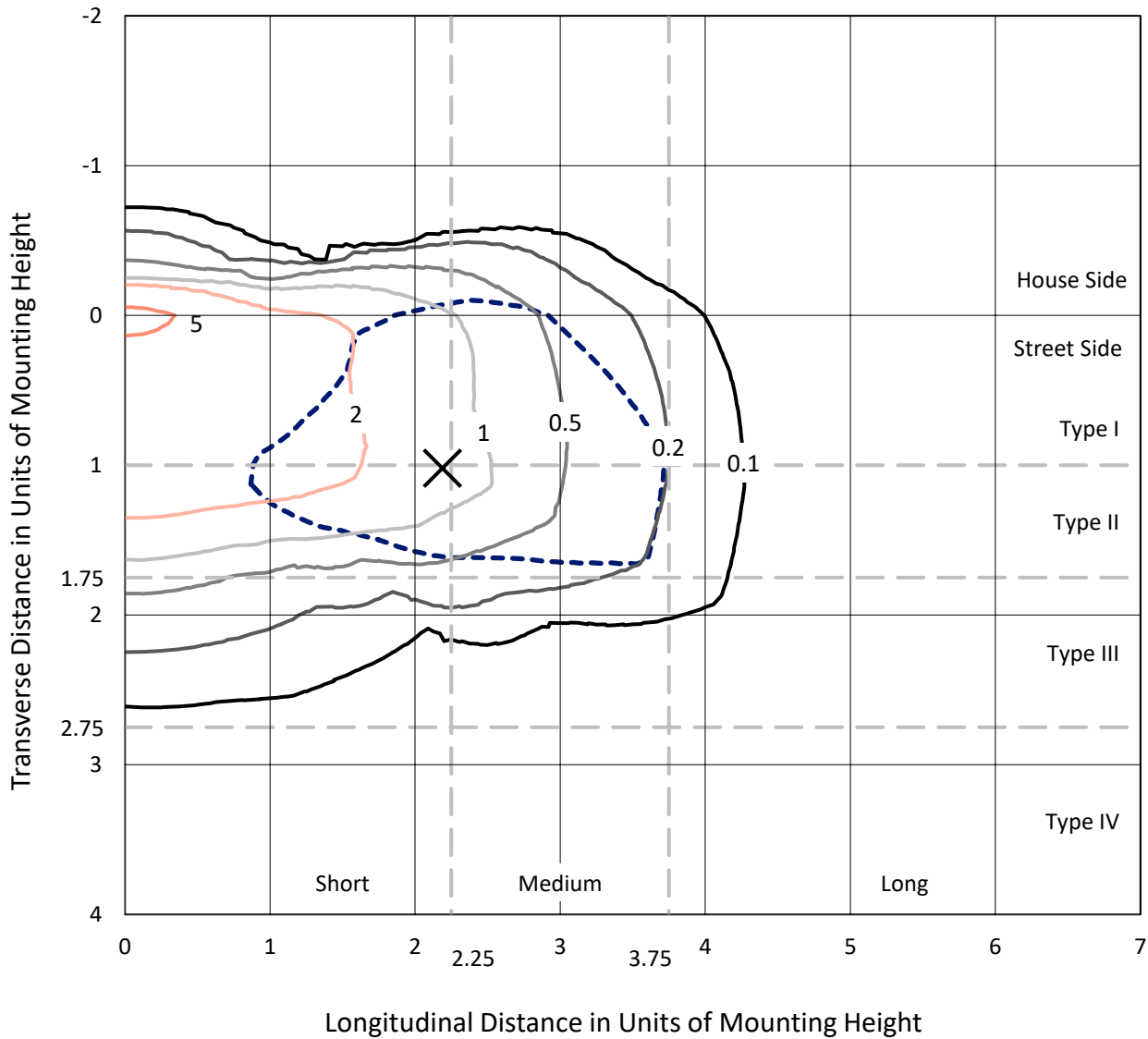
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

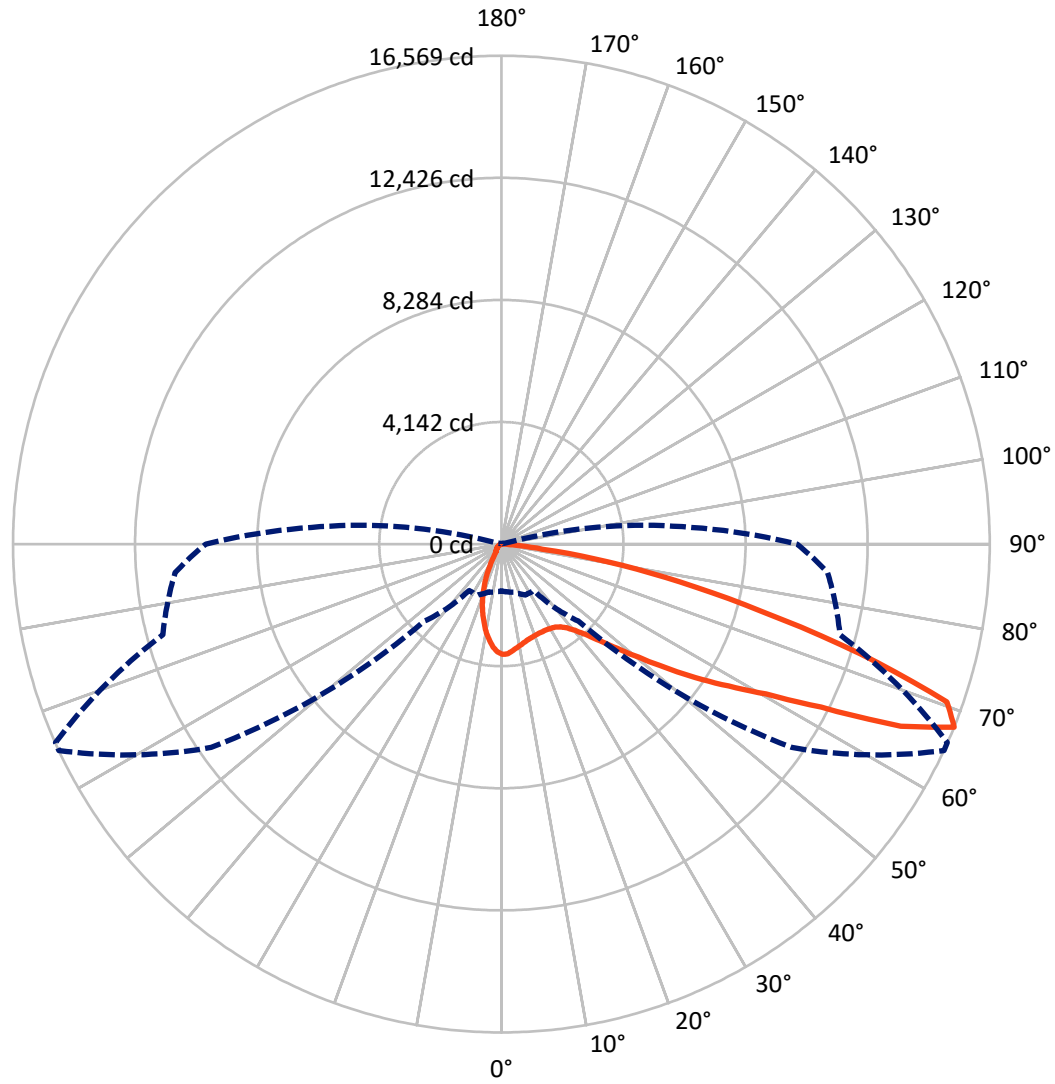
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1925.7	0.0	1925.7
	% Fixture	12.5	0.0	12.5
Street Side	Lumens	13495.6	0.0	13495.6
	% Fixture	87.5	0.0	87.5
Total	Lumens	15421.3	0.0	15421.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.6	2.0
10°-20°	698.3	4.5
20°-30°	997.8	6.5
30°-40°	1451.7	9.4
40°-50°	2273.6	14.7
50°-60°	3546.9	23.0
60°-70°	3896.1	25.3
70°-80°	2073.5	13.4
80°-90°	172.6	1.1
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°	15421.3	100.0
0°-180°	15421.3	100.0

Coefficient of Utilization

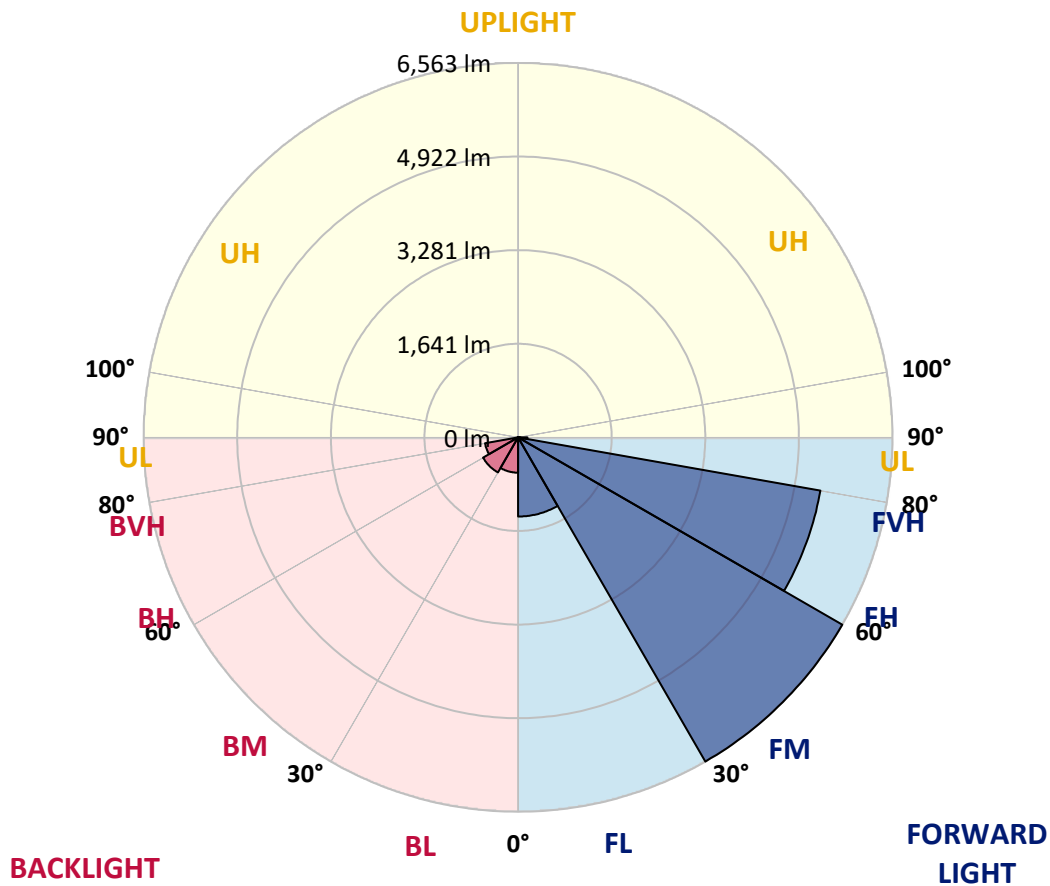


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1387.8	9.0			
FM (30°-60°)	6563.0	42.6			
FH (60°-80°)	5381.4	34.9			G3/7500
FVH (80°-90°)	163.4	1.1			G2/225
BL (0°-30°)	618.9	4.0	B2/1000		
BM (30°-60°)	709.3	4.6	B1/1000		
BH (60°-80°)	588.2	3.8	B2/1000		G2/1000
BVH (80°-90°)	9.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3740.2	3740.2	3740.2	3740.2	3740.2	3740.2	3740.2	3740.2	3740.2	3740.2	3740.2
2.5°	3610.5	3621.6	3606.3	3643.9	3650.9	3692.7	3716.4	3733.2	3731.8	3752.7	3752.7
5°	3398.5	3409.6	3401.3	3441.7	3473.8	3539.3	3593.7	3656.5	3659.3	3723.4	3747.1
7.5°	3218.6	3220.0	3220.0	3270.2	3312.0	3392.9	3473.8	3570.0	3581.2	3680.2	3742.9
10°	3070.8	3075.0	3076.4	3133.5	3179.5	3277.2	3380.4	3496.1	3508.7	3642.5	3740.2
12.5°	2969.0	2970.4	2975.9	3035.9	3086.1	3187.9	3292.5	3425.0	3441.7	3599.3	3727.6
15°	2920.2	2917.4	2920.2	2970.4	3020.6	3118.2	3225.6	3367.8	3385.9	3563.0	3729.0
17.5°	2917.4	2913.2	2910.4	2948.1	2980.1	3066.6	3175.4	3330.2	3349.7	3546.3	3744.3
20°	2957.8	2955.0	2941.1	2957.8	2964.8	3035.9	3143.3	3300.9	3320.4	3543.5	3777.8
22.5°	3063.8	3056.8	3035.9	3020.6	2982.9	3024.8	3121.0	3280.0	3302.3	3550.5	3821.0
25°	3221.4	3218.6	3192.1	3154.4	3058.2	3041.5	3122.4	3280.0	3300.9	3558.9	3867.1
27.5°	3458.5	3441.7	3408.3	3342.7	3204.6	3107.0	3150.3	3288.3	3309.2	3570.0	3904.7
30°	3699.7	3698.3	3687.2	3620.2	3415.2	3232.5	3208.8	3310.6	3330.2	3579.8	3939.6
32.5°	3949.3	3953.5	3981.4	3929.8	3705.3	3419.4	3314.8	3356.7	3370.6	3599.3	3970.2
35°	4186.4	4194.8	4268.7	4286.8	4058.1	3702.5	3487.7	3448.7	3450.1	3642.5	4010.7
37.5°	4413.7	4441.6	4560.1	4648.0	4497.4	4045.6	3737.4	3604.9	3593.7	3729.0	4072.1
40°	4671.7	4724.7	4873.9	5023.1	4975.7	4498.8	4077.6	3844.7	3821.0	3888.0	4182.2
42.5°	4957.6	5014.8	5212.8	5422.0	5444.3	5046.8	4503.0	4194.8	4154.3	4155.7	4388.6
45°	5264.4	5341.1	5571.2	5872.4	6007.7	5657.6	5027.3	4667.5	4627.1	4567.1	4720.5
47.5°	5667.4	5734.3	5956.1	6303.3	6562.7	6313.1	5714.8	5275.5	5201.6	5113.8	5236.5
50°	6014.6	6073.2	6264.3	6699.4	7239.0	7158.2	6494.4	6035.6	5964.4	5815.2	5917.0
52.5°	6091.3	6137.4	6313.1	6802.6	7756.4	8225.0	7449.6	6954.6	6904.4	6628.2	6667.3
55°	5746.9	5816.6	5974.2	6518.1	7891.7	9268.1	8689.4	7990.7	7886.1	7445.4	7515.2
57.5°	4876.7	5000.8	5148.6	5855.7	7524.9	9823.1	10421.4	9088.2	8993.4	8232.0	8233.4
60°	3574.2	3674.6	3773.6	4420.7	6654.7	9785.5	11993.0	10321.0	10148.1	8874.8	8851.1
62.5°	2599.4	2651.0	2649.6	2879.7	4569.9	9141.2	12818.6	12178.5	11775.5	9562.3	9427.1
65°	2044.4	2043.0	2103.0	2178.3	2552.0	7056.4	12920.4	14890.9	14455.8	10484.1	10202.4
67.5°	1591.2	1621.8	1681.8	1903.5	1917.5	3692.7	12025.1	16568.5	16560.1	11891.2	11110.3
70°	1227.2	1269.0	1354.1	1677.6	1771.1	2066.7	8997.6	16037.2	16172.5	12520.2	10467.4
72.5°	787.9	785.1	910.6	1355.5	1701.3	1722.3	4975.7	12739.1	12892.5	11340.4	8463.5
75°	440.7	443.5	514.6	829.8	1585.6	1620.5	2464.1	9084.0	9205.3	8841.4	6502.7
77.5°	172.9	178.5	241.3	436.5	1045.9	1447.5	1464.3	6194.5	6212.7	5479.1	3988.4
80°	69.7	73.9	122.7	270.5	637.3	974.8	1045.9	3649.5	3575.6	2121.1	1160.3
82.5°	20.9	22.3	48.8	153.4	333.3	693.1	705.6	1400.1	1322.0	456.0	295.6
85°	1.4	1.4	11.2	47.4	118.5	174.3	470.0	456.0	404.4	114.4	131.1
87.5°	0.0	0.0	1.4	1.4	2.8	5.6	50.2	83.7	85.1	20.9	58.6
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°	3740.2	3740.2	3740.2	3740.2	3740.2	3740.2	3740.2	3740.2	3740.2	3740.2	3740.2
2.5°	3752.7	3702.5	3698.3	3659.3	3620.2	3571.4	3514.2	3472.4	3443.1	3391.5	3381.8
5°	3747.1	3680.2	3617.4	3505.9	3381.8	3247.9	3130.7	3022.0	2953.6	2907.6	2888.1
7.5°	3736.0	3650.9	3505.9	3295.3	3087.5	2853.2	2670.5	2503.2	2388.8	2321.9	2292.6
10°	3727.6	3613.2	3377.6	3058.2	2736.1	2412.6	2135.0	1886.8	1748.8	1640.0	1621.8
12.5°	3710.9	3558.9	3213.0	2780.7	2365.1	1935.6	1581.4	1277.4	1066.8	972.0	938.5
15°	3694.1	3501.7	3048.5	2487.9	1960.7	1430.8	1001.3	708.4	563.4	518.8	516.0
17.5°	3691.3	3450.1	2870.0	2210.3	1536.8	937.1	570.4	458.8	428.1	417.0	417.0
20°	3699.7	3406.9	2694.2	1891.0	1119.8	570.4	425.3	397.4	379.3	369.6	369.6
22.5°	3708.1	3362.2	2525.5	1568.9	743.3	417.0	375.1	351.4	330.5	319.3	313.8
25°	3713.7	3313.4	2338.6	1245.3	485.3	362.6	329.1	298.4	273.3	259.4	259.4
27.5°	3712.3	3254.9	2150.4	928.8	376.5	322.1	281.7	249.6	224.5	209.2	210.6
30°	3701.1	3190.7	1955.1	648.5	329.1	281.7	241.3	207.8	182.7	170.1	168.7
32.5°	3692.7	3122.4	1729.2	456.0	295.6	246.8	205.0	172.9	152.0	142.2	140.8
35°	3683.0	3055.4	1514.5	347.2	266.4	213.4	172.9	146.4	129.7	121.3	121.3
37.5°	3685.8	2985.7	1281.6	298.4	237.1	185.5	147.8	125.5	111.6	103.2	101.8
40°	3729.0	2943.9	1052.9	270.5	210.6	160.4	128.3	108.8	94.8	86.5	85.1
42.5°	3836.4	2945.3	833.9	249.6	186.9	136.7	111.6	93.4	80.9	71.1	69.7
45°	4051.1	3003.8	640.1	227.3	161.8	118.5	96.2	79.5	66.9	58.6	57.2
47.5°	4402.6	3178.2	485.3	207.8	140.8	103.2	82.3	66.9	55.8	48.8	47.4
50°	4961.8	3493.3	382.1	184.1	118.5	89.3	69.7	55.8	46.0	39.0	37.7
52.5°	5633.9	3966.1	327.7	163.2	101.8	78.1	60.0	46.0	37.7	32.1	30.7
55°	6406.5	4530.9	302.6	142.2	86.5	66.9	48.8	37.7	30.7	26.5	23.7
57.5°	7114.9	5039.9	301.2	121.3	73.9	57.2	40.4	32.1	26.5	20.9	19.5
60°	7805.2	5465.2	283.1	100.4	64.1	47.4	34.9	26.5	22.3	18.1	16.7
62.5°	8431.4	5811.0	237.1	80.9	54.4	39.0	29.3	23.7	19.5	15.3	15.3
65°	9217.9	6251.7	181.3	65.5	44.6	32.1	25.1	20.9	18.1	13.9	13.9
67.5°	10030.9	6484.6	129.7	54.4	36.3	27.9	22.3	19.5	15.3	12.6	12.6
70°	9085.4	5479.1	93.4	44.6	30.7	23.7	19.5	18.1	15.3	12.6	11.2
72.5°	7095.4	3950.7	69.7	34.9	26.5	22.3	18.1	16.7	13.9	11.2	11.2
75°	5261.6	2303.8	53.0	27.9	20.9	18.1	18.1	16.7	13.9	11.2	9.8
77.5°	2860.2	803.3	40.4	22.3	16.7	13.9	15.3	15.3	12.6	9.8	8.4
80°	757.2	220.3	27.9	16.7	13.9	11.2	11.2	13.9	11.2	8.4	8.4
82.5°	220.3	64.1	19.5	13.9	11.2	9.8	9.8	9.8	8.4	7.0	5.6
85°	107.4	23.7	13.9	11.2	9.8	8.4	7.0	7.0	5.6	4.2	4.2
87.5°	47.4	9.8	11.2	9.8	9.8	7.0	5.6	4.2	4.2	2.8	1.4
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)