

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: P642932

Luminaire Tested: GWS-SA6D-830-U-SL4-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642932  
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-SA6D-830-U-SL4-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

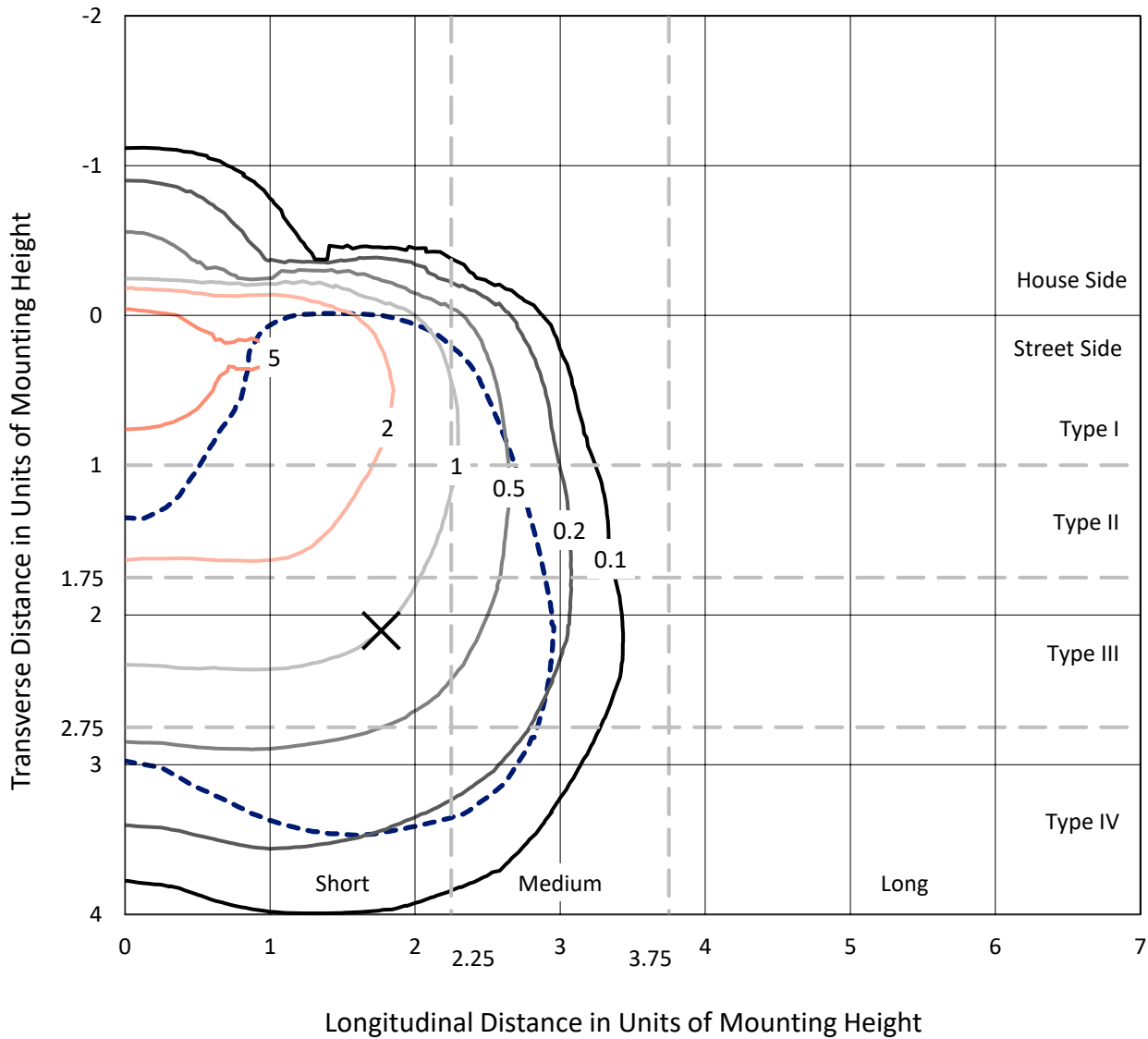
Lumens per Lamp: N/A  
Luminaire Lumens: 22421.1 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

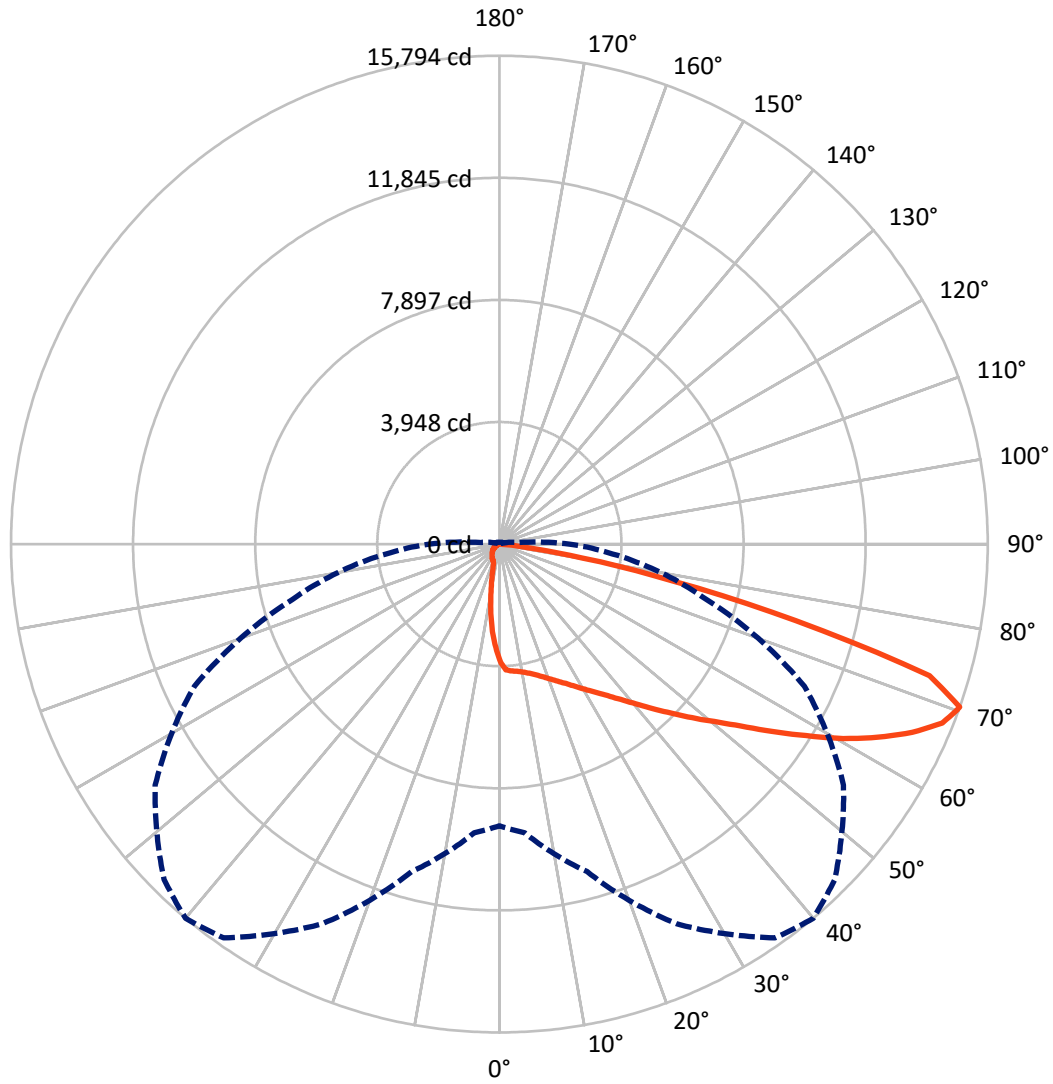
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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
<b>House Side</b>	Lumens	1833.5	0.0	1833.5
	% Fixture	8.2	0.0	8.2
<b>Street Side</b>	Lumens	20587.6	0.0	20587.6
	% Fixture	91.8	0.0	91.8
<b>Total</b>	Lumens	22421.1	0.0	22421.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	321.6	1.4
10°-20°	815.6	3.6
20°-30°	1365.0	6.1
30°-40°	2143.9	9.6
40°-50°	3391.1	15.1
50°-60°	4946.7	22.1
60°-70°	6132.2	27.4
70°-80°	3102.5	13.8
80°-90°	202.5	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°	22421.1	100.0
0°-180°	22421.1	100.0

**Coefficient of Utilization**



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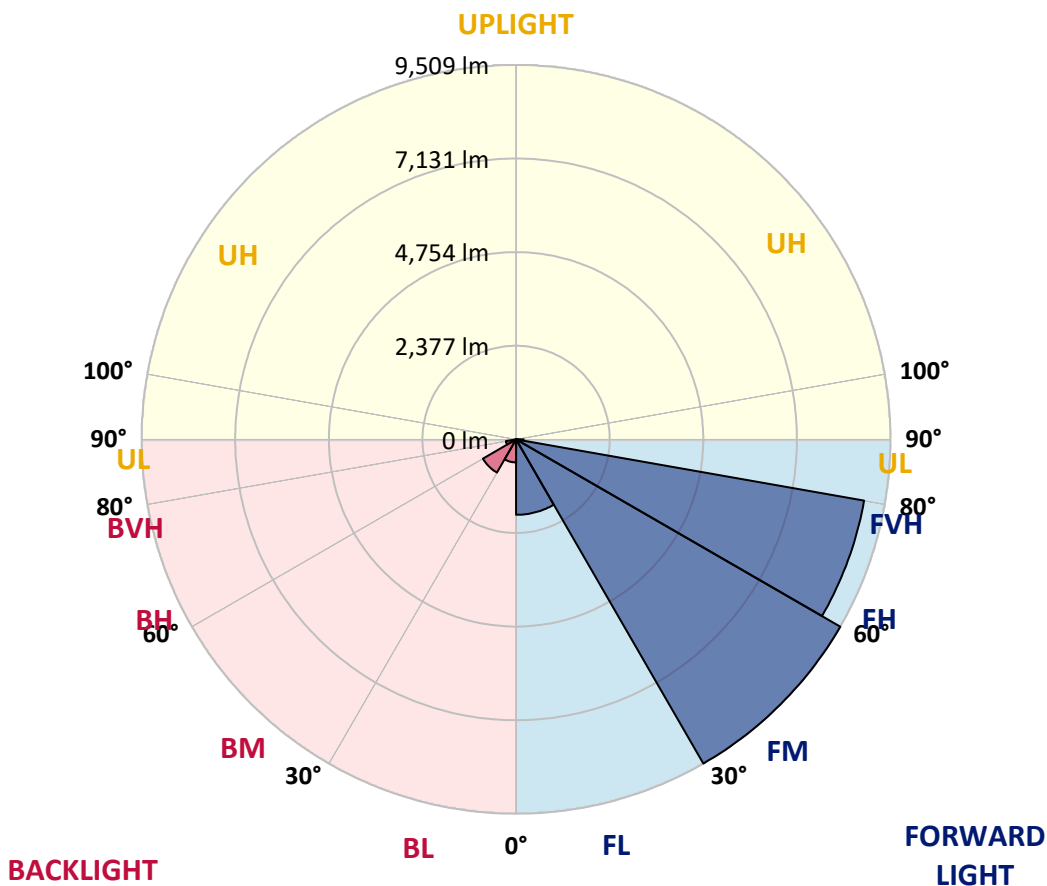
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1916.6	8.5			
FM (30°-60°)	9508.5	42.4			
FH (60°-80°)	8973.3	40.0			G4/12000
FVH (80°-90°)	189.2	0.8			G2/225
BL (0°-30°)	585.5	2.6	B2/1000		
BM (30°-60°)	973.2	4.3	B1/1000		
BH (60°-80°)	261.4	1.2	B1/500		G1/500
BVH (80°-90°)	13.4	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°	3804.6	3804.6	3804.6	3804.6	3804.6	3804.6	3804.6	3804.6	3804.6	3804.6	3804.6
2.5°	4090.2	4104.5	4102.4	4108.6	4094.3	4071.8	4067.8	4037.2	3982.1	3912.7	3835.2
5°	4173.8	4190.2	4177.9	4171.8	4145.3	4120.8	4114.7	4082.0	4018.8	3925.0	3790.3
7.5°	4245.2	4249.3	4241.2	4226.9	4188.1	4155.5	4133.0	4088.2	4012.7	3918.8	3763.8
10°	4257.5	4255.4	4259.5	4261.6	4237.1	4208.5	4190.2	4129.0	4033.1	3933.1	3765.8
12.5°	4243.2	4243.2	4269.7	4300.3	4300.3	4286.0	4267.7	4212.6	4100.4	3982.1	3806.6
15°	4261.6	4267.7	4318.7	4375.8	4394.2	4379.9	4371.7	4314.6	4198.3	4067.8	3880.1
17.5°	4326.8	4333.0	4414.6	4500.2	4522.7	4506.4	4490.0	4432.9	4308.5	4165.7	3963.7
20°	4422.7	4439.0	4543.1	4653.2	4673.6	4653.2	4620.6	4541.0	4416.6	4271.8	4043.3
22.5°	4598.2	4608.4	4720.5	4836.8	4847.0	4814.4	4765.4	4655.3	4524.7	4384.0	4133.0
25°	4830.7	4845.0	4957.2	5069.4	5042.9	4993.9	4926.6	4802.1	4653.2	4516.6	4247.3
27.5°	5108.1	5124.5	5234.6	5332.5	5263.2	5206.1	5130.6	4975.5	4824.6	4700.1	4394.2
30°	5408.0	5422.3	5520.2	5607.9	5516.1	5448.8	5359.1	5199.9	5046.9	4953.1	4602.2
32.5°	5697.7	5695.7	5789.5	5860.9	5767.1	5714.0	5632.4	5471.3	5348.9	5308.1	4912.3
35°	5967.0	5967.0	6044.5	6115.9	6048.6	6020.0	5944.5	5816.0	5746.7	5795.6	5326.4
37.5°	6238.3	6224.0	6297.5	6377.0	6370.9	6372.9	6330.1	6268.9	6273.0	6446.4	5895.6
40°	6462.7	6456.6	6542.3	6646.3	6727.9	6793.2	6766.7	6789.1	6917.6	7242.0	6623.9
42.5°	6642.2	6656.5	6766.7	6931.9	7137.9	7270.5	7288.9	7380.7	7711.2	8213.0	7446.0
45°	6848.3	6850.3	7003.3	7256.3	7584.7	7794.8	7868.3	8104.9	8574.1	9220.8	8347.7
47.5°	7101.2	7076.7	7248.1	7603.1	8078.4	8388.5	8519.0	8814.8	9541.1	10204.1	9082.1
50°	7380.7	7335.8	7529.6	8013.1	8631.2	9018.8	9284.0	9716.5	10499.9	11011.9	9628.8
52.5°	7705.1	7662.2	7882.5	8484.3	9294.2	9765.5	10106.1	10542.7	11322.0	11628.0	9955.2
55°	8117.1	8074.3	8306.9	9049.4	10077.6	10689.6	11046.6	11413.8	12087.0	12082.9	10191.8
57.5°	8574.1	8514.9	8837.3	9763.4	11054.7	11691.2	12054.3	12233.9	12668.4	12435.8	10350.9
60°	9098.4	9045.3	9492.1	10614.1	12182.9	12772.4	13000.9	12927.5	13145.7	12643.9	10295.9
62.5°	9571.7	9547.2	10102.1	11515.8	13257.9	13755.7	13818.9	13498.7	13496.6	12648.0	9924.6
65°	10063.3	10110.2	10934.4	12554.1	14339.1	14673.7	14565.6	14065.8	13637.4	12148.2	8827.1
67.5°	10246.9	10383.6	11483.1	13492.5	15191.8	15453.0	15263.2	14349.3	13051.9	10467.2	6721.8
70°	9112.7	9369.7	10965.0	13545.6	15544.8	15793.6	15338.7	13586.4	10881.3	6933.9	3682.2
72.5°	6929.9	7229.7	9137.1	11091.5	13980.1	14547.2	13770.0	11069.0	7013.5	3037.6	1236.2
75°	3878.0	4202.4	6805.4	8351.7	9386.0	9904.2	9618.6	7101.2	3106.9	793.6	369.2
77.5°	1311.7	1419.8	3166.1	5167.3	6195.5	5730.3	4851.1	3527.2	1142.4	301.9	195.8
80°	777.2	818.0	1179.1	2572.4	3259.9	2703.0	2133.8	1303.6	581.4	161.2	136.7
82.5°	232.6	275.4	650.8	954.7	1277.0	795.6	673.2	744.6	301.9	87.7	114.2
85°	0.0	0.0	138.7	295.8	334.6	130.6	130.6	422.3	55.1	36.7	83.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	10.2	6.1	8.2	18.4
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°	3804.6	3804.6	3804.6	3804.6	3804.6	3804.6	3804.6	3804.6	3804.6	3804.6	3804.6
2.5°	3780.1	3708.7	3625.1	3545.5	3470.0	3372.1	3325.2	3268.1	3219.1	3192.6	3206.9
5°	3704.6	3592.4	3421.1	3247.7	3072.2	2907.0	2758.1	2658.1	2568.4	2521.4	2531.6
7.5°	3639.4	3488.4	3221.2	2937.6	2656.1	2372.5	2142.0	1962.5	1823.8	1766.6	1756.4
10°	3610.8	3421.1	3043.7	2635.7	2203.2	1821.7	1495.3	1297.4	1156.7	1087.3	1099.6
12.5°	3625.1	3386.4	2892.7	2339.9	1778.9	1334.2	1022.0	836.4	736.4	695.6	685.4
15°	3665.9	3378.2	2758.1	2038.0	1372.9	932.3	705.8	630.4	610.0	605.9	605.9
17.5°	3712.8	3380.3	2619.4	1732.0	1042.4	691.6	603.8	589.6	583.4	579.4	581.4
20°	3759.7	3380.3	2460.2	1421.9	783.4	597.7	575.3	565.1	559.0	556.9	556.9
22.5°	3816.8	3380.3	2282.8	1134.2	628.3	567.1	548.8	542.6	536.5	534.5	532.4
25°	3886.2	3382.3	2086.9	887.4	571.2	540.6	526.3	520.2	514.1	510.0	510.0
27.5°	3986.2	3398.6	1870.7	691.6	538.6	516.1	503.9	497.8	491.6	485.5	485.5
30°	4131.0	3439.4	1627.9	571.2	508.0	489.6	477.4	473.3	467.2	461.0	459.0
32.5°	4347.2	3510.8	1377.0	512.0	479.4	461.0	446.8	442.7	436.6	430.4	428.4
35°	4649.2	3641.4	1132.2	475.3	442.7	424.3	416.2	414.1	406.0	399.8	399.8
37.5°	5091.8	3853.6	897.6	438.6	412.1	397.8	387.6	383.5	375.4	369.2	367.2
40°	5632.4	4129.0	697.7	410.0	383.5	369.2	359.0	352.9	342.7	334.6	330.5
42.5°	6321.9	4465.6	550.8	379.4	357.0	342.7	334.6	322.3	308.0	295.8	293.8
45°	7040.0	4812.3	454.9	350.9	332.5	320.3	310.1	293.8	273.4	259.1	255.0
47.5°	7590.8	5028.6	397.8	320.3	306.0	295.8	283.6	263.2	238.7	222.4	218.3
50°	7984.5	5061.2	355.0	291.7	283.6	273.4	255.0	230.5	204.0	187.7	183.6
52.5°	8178.3	4914.3	320.3	265.2	259.1	248.9	226.4	199.9	171.4	155.0	151.0
55°	8266.1	4636.9	287.6	242.8	234.6	222.4	197.9	169.3	140.8	126.5	122.4
57.5°	8231.4	4226.9	259.1	220.3	210.1	195.8	169.3	138.7	116.3	102.0	100.0
60°	7974.3	3651.6	230.5	197.9	185.6	169.3	142.8	114.2	93.8	83.6	81.6
62.5°	7419.5	2937.6	202.0	171.4	163.2	146.9	122.4	93.8	77.5	71.4	69.4
65°	6283.2	2076.7	173.4	144.8	140.8	124.4	102.0	77.5	67.3	63.2	61.2
67.5°	4516.6	1262.8	146.9	124.4	120.4	106.1	85.7	67.3	61.2	59.2	59.2
70°	2270.5	597.7	116.3	102.0	102.0	87.7	73.4	61.2	59.2	57.1	57.1
72.5°	771.1	255.0	87.7	79.6	83.6	75.5	63.2	57.1	57.1	57.1	57.1
75°	263.2	134.6	61.2	57.1	61.2	61.2	55.1	55.1	57.1	57.1	57.1
77.5°	171.4	89.8	42.8	38.8	46.9	46.9	46.9	51.0	55.1	55.1	55.1
80°	140.8	49.0	28.6	26.5	34.7	34.7	38.8	46.9	51.0	51.0	51.0
82.5°	120.4	30.6	16.3	18.4	24.5	26.5	32.6	38.8	44.9	46.9	46.9
85°	81.6	16.3	12.2	14.3	16.3	20.4	26.5	32.6	36.7	40.8	40.8
87.5°	22.4	6.1	8.2	10.2	10.2	14.3	20.4	24.5	28.6	30.6	30.6
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)