

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: P636705

Luminaire Tested: GWS-SA4B-735-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636705  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-735-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

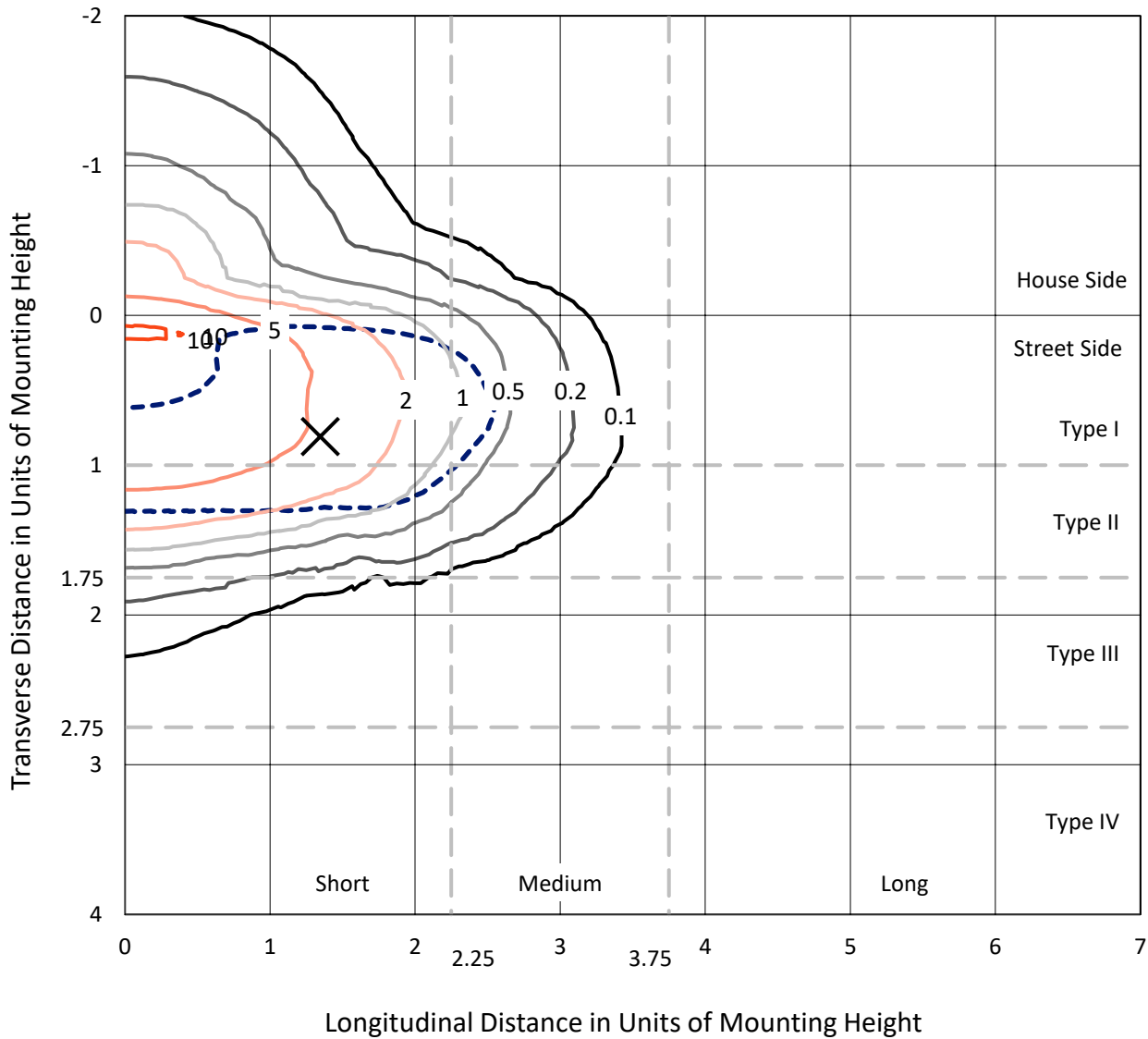
Lumens per Lamp: N/A  
Luminaire Lumens: 14537.4 lumens  
Efficiency: N/A  
Efficacy: 154.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

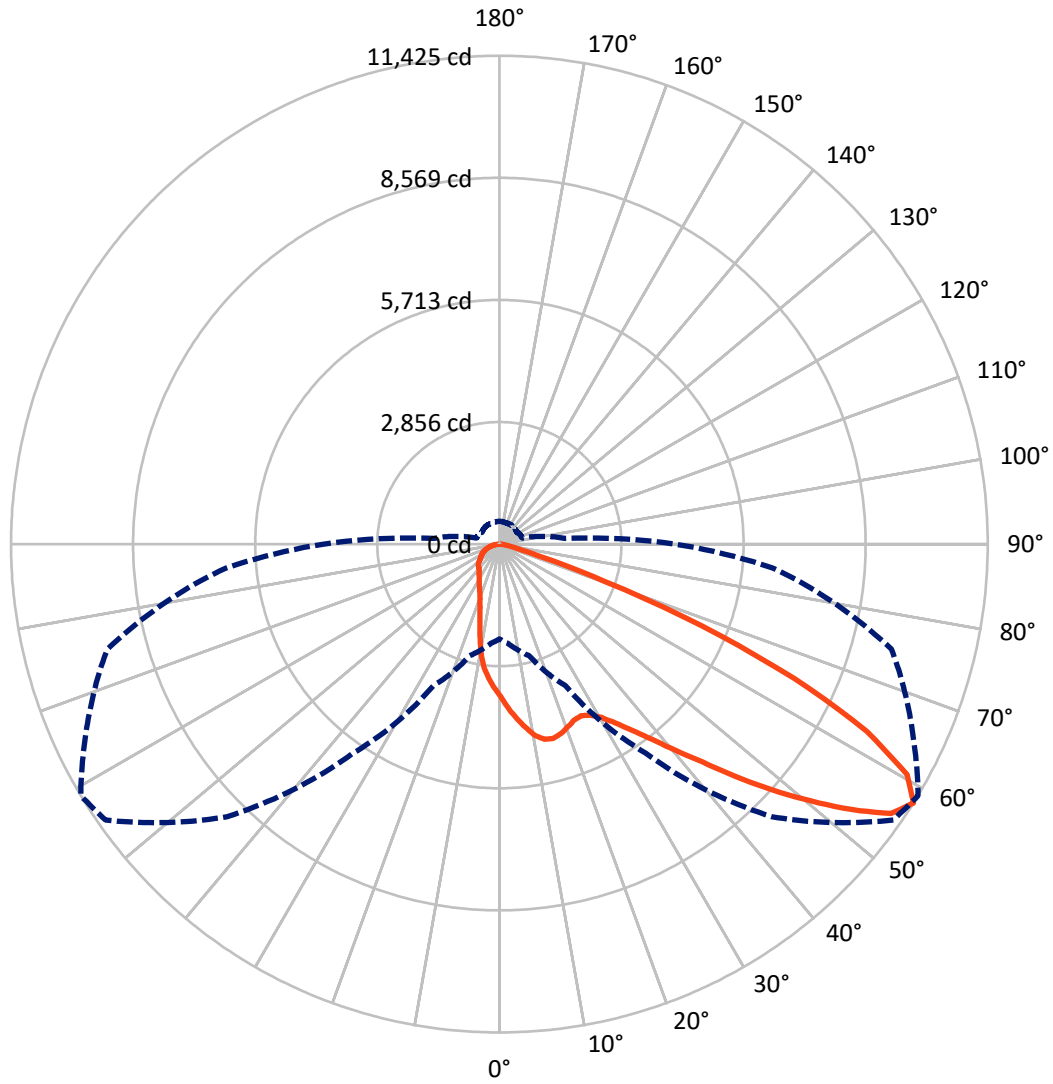
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2256.1	0.0	2256.1
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	12281.3	0.0	12281.3
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	14537.4	0.0	14537.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	331.4	2.3
10°-20°	839.7	5.8
20°-30°	1361.1	9.4
30°-40°	2189.5	15.1
40°-50°	3400.1	23.4
50°-60°	3662.3	25.2
60°-70°	2125.5	14.6
70°-80°	554.9	3.8
80°-90°	73.1	0.5
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°	14537.4	100.0
0°-180°	14537.4	100.0

**Coefficient of Utilization**



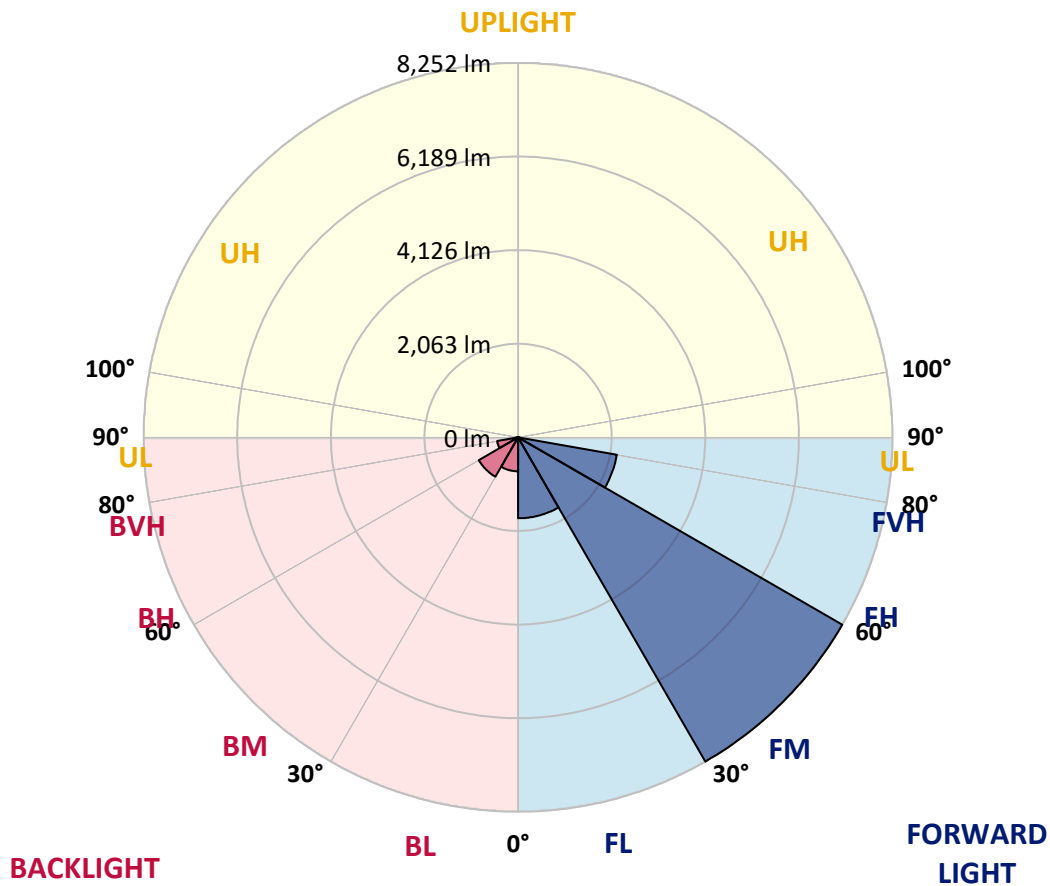
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1783.6	12.3			
FM (30°-60°)	8251.6	56.8			
FH (60°-80°)	2211.1	15.2			G2/5000
FVH (80°-90°)	35.0	0.2			G1/100
BL (0°-30°)	748.5	5.1	B2/1000		
BM (30°-60°)	1000.3	6.9	B2/2500		
BH (60°-80°)	469.3	3.2	B1/500		G1/500
BVH (80°-90°)	38.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3568.6	3568.6	3568.6	3568.6	3568.6	3568.6	3568.6	3568.6	3568.6	3568.6	3568.6
2.5°	4047.6	4013.8	4037.4	3995.4	3978.0	3932.0	3872.6	3832.7	3771.3	3691.5	3621.9
5°	4449.8	4426.3	4431.4	4386.3	4346.4	4269.7	4147.9	4080.3	3976.0	3815.3	3665.9
7.5°	4437.5	4465.2	4480.5	4519.4	4530.6	4523.5	4414.0	4319.8	4205.2	3963.7	3738.5
10°	3978.0	4030.2	4077.3	4210.3	4372.0	4576.7	4602.3	4546.0	4430.4	4153.0	3825.5
12.5°	3477.6	3517.5	3559.4	3719.1	3966.7	4376.1	4653.5	4688.3	4642.2	4340.3	3923.8
15°	3231.9	3250.4	3290.3	3395.7	3593.2	4047.6	4564.4	4716.9	4799.8	4538.8	4034.3
17.5°	3221.7	3229.9	3249.3	3305.6	3442.8	3793.8	4403.7	4659.6	4923.6	4748.6	4163.2
20°	3433.6	3412.1	3399.8	3398.8	3466.3	3708.8	4248.2	4567.5	4982.0	4963.6	4301.4
22.5°	3727.3	3734.4	3707.8	3642.3	3634.1	3769.2	4170.4	4474.4	4999.4	5153.9	4429.3
25°	4143.8	4179.6	4100.8	3976.0	3914.6	3944.2	4218.5	4445.7	4997.3	5312.5	4509.2
27.5°	4629.9	4657.6	4577.7	4414.0	4287.1	4215.4	4361.8	4530.6	5014.7	5449.7	4557.3
30°	5183.6	5192.8	5083.3	4911.4	4726.1	4572.6	4600.2	4705.7	5103.8	5629.8	4613.5
32.5°	5860.1	5899.0	5733.2	5460.9	5202.0	5005.5	4920.6	4988.1	5296.2	5842.7	4700.5
35°	6718.7	6732.0	6521.2	6131.3	5764.9	5492.7	5314.6	5350.4	5588.9	6140.5	4831.5
37.5°	7528.2	7541.5	7317.4	6955.1	6431.1	6058.6	5800.7	5784.3	5963.4	6561.1	5045.4
40°	8042.0	8079.8	7979.6	7752.4	7251.9	6749.4	6399.4	6343.1	6454.7	7075.9	5343.2
42.5°	8318.3	8334.7	8332.6	8362.3	8064.5	7565.1	7074.9	6962.3	7037.0	7631.6	5644.1
45°	8320.3	8361.3	8470.8	8756.3	8769.6	8458.5	7928.4	7752.4	7683.8	8191.4	5958.3
47.5°	7947.8	7991.8	8292.7	8854.6	9269.1	9339.7	8950.8	8597.7	8309.1	8673.4	6216.2
50°	6820.0	6930.6	7503.7	8497.4	9367.3	10045.8	9926.1	9447.1	8864.8	9045.9	6377.9
52.5°	5840.6	5836.5	6189.6	7488.3	8956.9	10356.9	10869.7	10321.1	9414.4	9282.4	6418.8
55°	4276.8	4300.4	4661.6	5727.0	7861.9	10056.1	11388.5	11125.5	10044.8	9408.2	6402.5
57.5°	2217.7	2334.4	2704.9	3654.6	5973.7	9020.4	11250.4	11425.4	10685.5	9497.3	6424.0
60°	1120.6	1098.1	1231.2	1744.9	3461.2	7045.2	10398.9	10956.7	10801.1	9566.9	6437.3
62.5°	748.1	742.0	705.1	808.5	1414.4	4172.5	8864.8	9646.7	9997.7	9403.1	6267.4
65°	647.8	635.5	568.0	563.9	686.7	1730.6	6497.6	7583.5	8263.0	8675.5	5861.1
67.5°	583.3	564.9	496.4	462.6	493.3	760.4	3661.8	5086.4	6101.6	7336.8	4970.7
70°	520.9	511.7	443.1	394.0	390.9	463.6	1348.9	2625.1	3733.4	5005.5	3634.1
72.5°	466.7	450.3	392.0	344.9	321.4	328.5	585.4	1011.1	1932.2	3122.4	2173.7
75°	404.2	392.0	340.8	293.7	265.1	240.5	357.2	467.7	881.2	1483.9	1026.5
77.5°	312.1	304.0	269.2	233.3	217.0	179.1	217.0	294.7	407.3	625.3	534.2
80°	181.1	186.3	200.6	182.2	159.7	127.9	141.2	169.9	244.6	338.7	302.9
82.5°	91.1	97.2	130.0	105.4	95.2	74.7	83.9	100.3	127.9	187.3	118.7
85°	7.2	7.2	23.5	26.6	32.7	26.6	33.8	40.9	58.3	74.7	39.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.1	5.1	9.2	17.4	11.3
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°	3568.6	3568.6	3568.6	3568.6	3568.6	3568.6	3568.6	3568.6	3568.6	3568.6	3568.6
2.5°	3574.8	3522.6	3460.2	3409.0	3330.2	3288.2	3235.0	3169.5	3142.9	3130.6	3123.5
5°	3581.9	3489.8	3356.8	3234.0	3097.9	2990.4	2870.7	2745.8	2674.2	2656.8	2644.5
7.5°	3608.6	3479.6	3267.8	3065.1	2812.3	2578.0	2349.8	2123.6	2007.9	1963.9	1959.8
10°	3645.4	3475.5	3177.7	2841.0	2414.2	2043.8	1776.6	1599.6	1524.9	1500.3	1492.1
12.5°	3691.5	3472.4	3059.0	2529.9	1954.7	1604.7	1452.2	1423.6	1433.8	1431.8	1431.8
15°	3749.8	3476.5	2915.7	2177.8	1581.2	1392.9	1395.9	1429.7	1461.4	1466.6	1466.6
17.5°	3813.2	3472.4	2708.0	1824.7	1357.0	1342.7	1389.8	1436.9	1465.5	1469.6	1469.6
20°	3881.8	3453.0	2446.0	1492.1	1258.8	1311.0	1362.2	1399.0	1416.4	1420.5	1420.5
22.5°	3922.7	3397.7	2161.4	1262.9	1196.4	1260.8	1294.6	1332.5	1334.5	1301.8	1300.8
25°	3916.6	3294.4	1837.0	1115.5	1129.8	1186.1	1229.1	1202.5	1169.8	1151.3	1148.3
27.5°	3877.7	3138.8	1506.5	1004.0	1051.0	1114.5	1101.2	1078.7	1070.5	1050.0	1048.0
30°	3828.6	2947.4	1209.7	917.0	969.2	1027.5	1007.0	1005.0	996.8	974.3	974.3
32.5°	3781.5	2749.9	985.5	852.5	917.0	921.1	949.7	951.8	947.7	908.8	904.7
35°	3768.2	2552.4	834.1	801.3	865.8	863.8	904.7	903.7	833.1	778.8	777.8
37.5°	3808.1	2351.8	744.0	759.4	795.2	821.8	854.5	795.2	771.7	738.9	736.9
40°	3893.1	2166.6	698.0	734.8	750.2	789.1	737.9	742.0	735.8	711.3	708.2
42.5°	4005.6	2009.0	672.4	726.6	724.6	734.8	678.5	694.9	704.1	685.7	682.6
45°	4114.1	1871.8	659.1	695.9	706.2	646.8	635.5	650.9	665.2	658.1	655.0
47.5°	4193.9	1753.1	651.9	654.0	682.6	617.1	598.7	605.9	623.3	626.3	625.3
50°	4218.5	1651.8	643.7	619.2	613.0	587.4	573.1	571.1	591.5	605.9	607.9
52.5°	4171.4	1561.7	622.2	588.5	558.8	562.9	557.8	547.5	568.0	587.4	589.5
55°	4101.8	1510.6	588.5	558.8	524.0	540.4	542.4	533.2	546.5	559.8	559.8
57.5°	4107.0	1540.2	555.7	531.2	493.3	514.8	526.0	521.9	521.9	532.2	533.2
60°	4140.7	1583.2	534.2	496.4	462.6	485.1	510.7	506.6	497.4	510.7	510.7
62.5°	4043.5	1525.9	519.9	462.6	429.8	456.4	487.1	485.1	474.9	496.4	498.4
65°	3756.9	1372.4	503.5	420.6	397.1	427.8	454.4	461.6	452.3	481.0	486.1
67.5°	3149.0	1154.4	471.8	380.7	364.3	393.0	418.6	428.8	421.6	455.4	459.5
70°	2347.7	934.4	421.6	336.7	324.4	350.0	373.5	377.6	378.7	418.6	422.7
72.5°	1497.3	726.6	355.1	287.6	278.4	297.8	315.2	331.6	338.7	376.6	375.6
75°	835.1	540.4	285.5	243.6	227.2	242.5	263.0	282.5	302.9	358.2	364.3
77.5°	481.0	379.7	226.2	195.5	176.0	192.4	209.8	237.4	298.8	346.9	340.8
80°	271.2	246.6	170.9	143.3	131.0	143.3	156.6	208.8	235.4	255.9	258.9
82.5°	126.9	138.2	116.7	88.0	88.0	96.2	108.5	161.7	178.1	145.3	126.9
85°	46.1	62.4	57.3	45.0	39.9	38.9	67.5	92.1	57.3	51.2	44.0
87.5°	12.3	17.4	16.4	11.3	6.1	5.1	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)