

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: P633240

Luminaire Tested: GWS-SA2E-735-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633240
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-SA2E-735-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14654.7 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 108.2
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

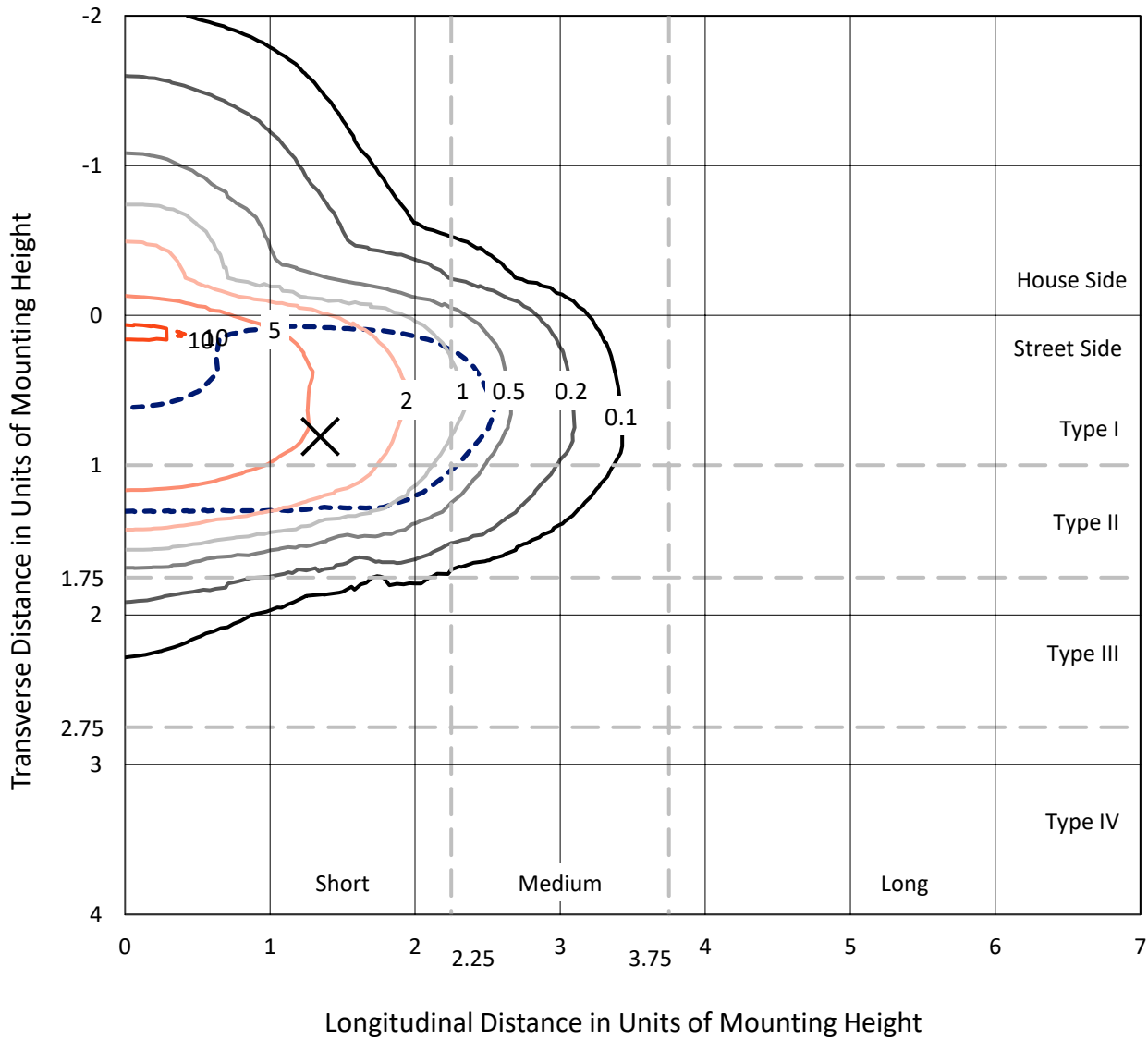


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Iso-Footcandle Lines of Horizontal Illumination

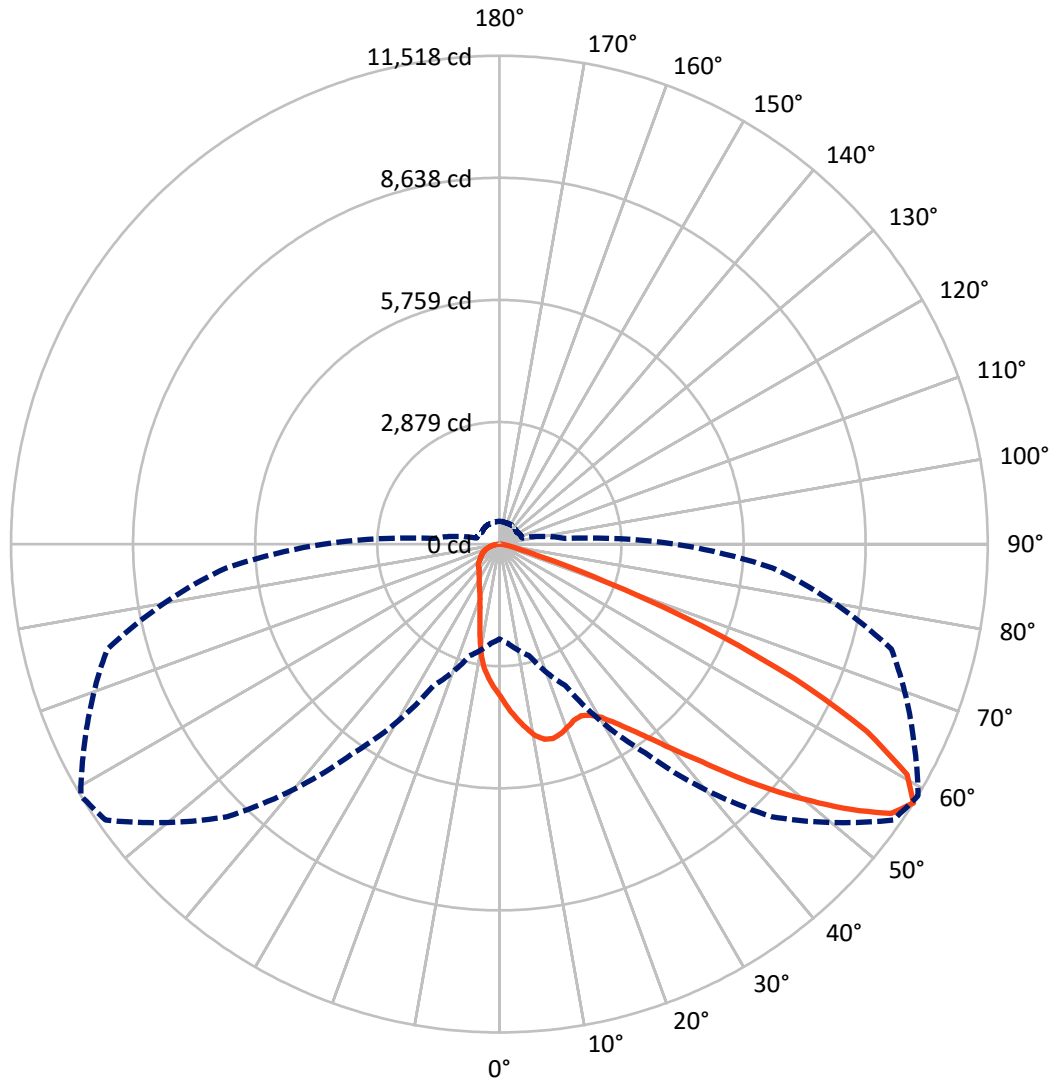
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11 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
House Side	Lumens	2274.3	0.0	2274.3
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	12380.4	0.0	12380.4
	% Fixture	84.5	0.0	84.5
Total	Lumens	14654.7	0.0	14654.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.0	2.3
10°-20°	846.4	5.8
20°-30°	1372.1	9.4
30°-40°	2207.2	15.1
40°-50°	3427.5	23.4
50°-60°	3691.9	25.2
60°-70°	2142.6	14.6
70°-80°	559.3	3.8
80°-90°	73.7	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°	14654.7	100.0
0°-180°	14654.7	100.0

Coefficient of Utilization



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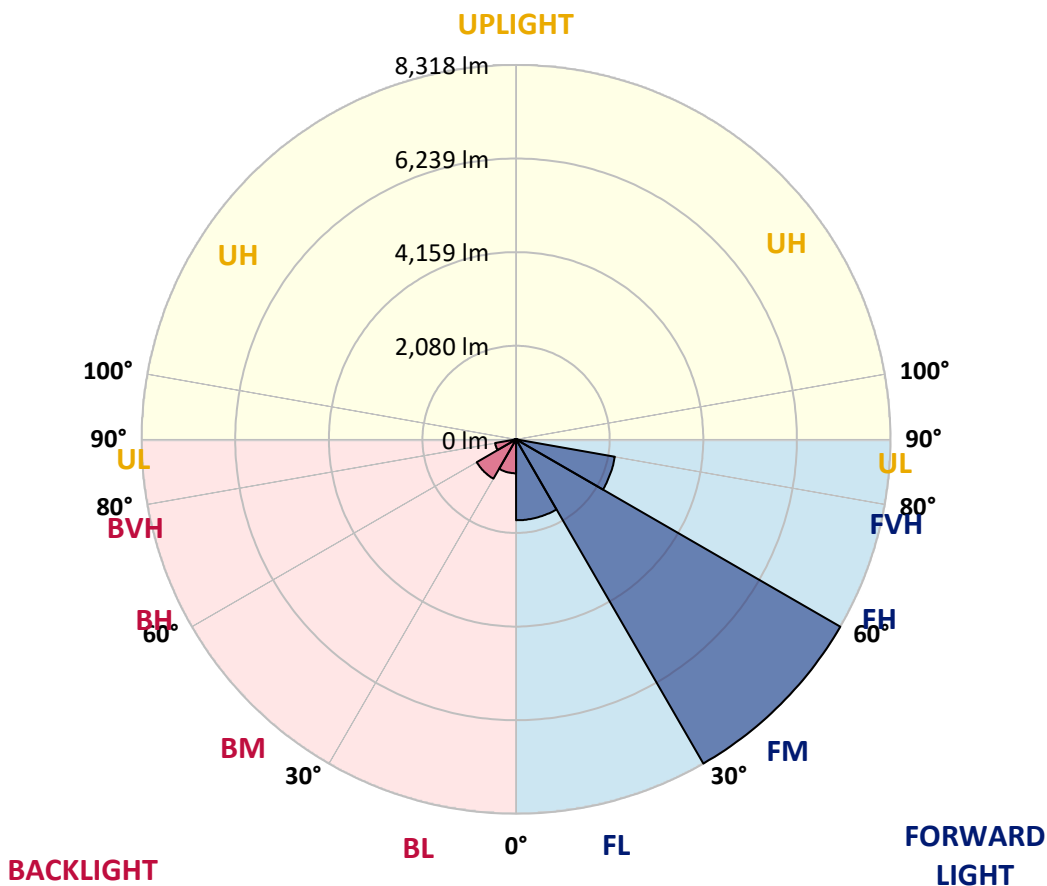
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1798.0	12.3			
FM (30°-60°)	8318.2	56.8			
FH (60°-80°)	2228.9	15.2			G2/5000
FVH (80°-90°)	35.3	0.2			G1/100
BL (0°-30°)	754.5	5.1	B2/1000		
BM (30°-60°)	1008.3	6.9	B2/2500		
BH (60°-80°)	473.0	3.2	B1/500		G1/500
BVH (80°-90°)	38.4	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°	3597.4	3597.4	3597.4	3597.4	3597.4	3597.4	3597.4	3597.4	3597.4	3597.4	3597.4
2.5°	4080.3	4046.2	4069.9	4027.6	4010.1	3963.7	3903.8	3863.6	3801.7	3721.2	3651.1
5°	4485.7	4462.0	4467.1	4421.7	4381.5	4304.1	4181.4	4113.3	4008.0	3846.1	3695.4
7.5°	4473.3	4501.2	4516.7	4555.9	4567.2	4560.0	4449.6	4354.7	4239.1	3995.7	3768.7
10°	4010.1	4062.7	4110.2	4244.3	4407.3	4613.6	4639.4	4582.7	4466.1	4186.5	3856.4
12.5°	3505.6	3545.9	3588.2	3749.1	3998.8	4411.4	4691.0	4726.1	4679.7	4375.3	3955.4
15°	3258.0	3276.6	3316.8	3423.1	3622.2	4080.3	4601.3	4755.0	4838.5	4575.5	4066.8
17.5°	3247.7	3256.0	3275.6	3332.3	3470.5	3824.4	4439.3	4697.2	4963.4	4787.0	4196.8
20°	3461.3	3439.6	3427.2	3426.2	3494.3	3738.8	4282.5	4604.3	5022.2	5003.6	4336.1
22.5°	3757.3	3764.6	3737.7	3671.7	3663.5	3799.6	4204.1	4510.5	5039.7	5195.5	4465.1
25°	4177.2	4213.3	4133.9	4008.0	3946.1	3976.1	4252.5	4481.6	5037.6	5355.4	4545.5
27.5°	4667.3	4695.1	4614.7	4449.6	4321.7	4249.5	4397.0	4567.2	5055.2	5493.6	4594.0
30°	5225.4	5234.7	5124.3	4951.0	4764.3	4609.5	4637.4	4743.6	5144.9	5675.2	4650.8
32.5°	5907.3	5946.6	5779.4	5505.0	5244.0	5045.9	4960.3	5028.4	5338.9	5889.8	4738.5
35°	6772.9	6786.3	6573.8	6180.7	5811.4	5537.0	5357.5	5393.6	5634.0	6190.0	4870.5
37.5°	7589.0	7602.4	7376.4	7011.2	6483.0	6107.5	5847.5	5831.0	6011.5	6614.0	5086.1
40°	8106.9	8145.0	8043.9	7814.9	7310.4	6803.9	6451.0	6394.3	6506.7	7133.0	5386.4
42.5°	8385.4	8401.9	8399.9	8429.8	8129.6	7626.1	7131.9	7018.5	7093.8	7693.2	5689.7
45°	8387.5	8428.7	8539.1	8827.0	8840.4	8526.8	7992.4	7814.9	7745.8	8257.5	6006.4
47.5°	8012.0	8056.3	8359.6	8926.0	9343.8	9415.0	9023.0	8667.1	8376.1	8743.4	6266.4
50°	6875.1	6986.5	7564.2	8566.0	9442.9	10126.9	10006.2	9523.4	8936.3	9118.9	6429.4
52.5°	5887.7	5883.6	6239.5	7548.7	9029.2	10440.5	10957.4	10404.4	9490.3	9357.3	6470.6
55°	4311.4	4335.1	4699.3	5773.2	7925.3	10137.2	11480.4	11215.3	10125.8	9484.1	6454.1
57.5°	2235.6	2353.2	2726.7	3684.1	6021.9	9093.1	11341.2	11517.6	10771.7	9573.9	6475.8
60°	1129.7	1107.0	1241.1	1759.0	3489.1	7102.0	10482.8	11045.1	10888.3	9644.1	6489.2
62.5°	754.2	748.0	710.8	815.0	1425.8	4206.1	8936.3	9724.5	10078.4	9479.0	6318.0
65°	653.0	640.7	572.6	568.5	692.3	1744.6	6550.1	7644.7	8329.7	8745.5	5908.4
67.5°	588.1	569.5	500.4	466.3	497.3	766.5	3691.3	5127.4	6150.8	7396.0	5010.8
70°	525.1	515.8	446.7	397.2	394.1	467.3	1359.7	2646.2	3763.5	5045.9	3663.5
72.5°	470.4	453.9	395.1	347.7	323.9	331.2	590.1	1019.3	1947.8	3147.6	2191.3
75°	407.5	395.1	343.5	296.1	267.2	242.4	360.1	471.5	888.3	1495.9	1034.8
77.5°	314.7	306.4	271.3	235.2	218.7	180.5	218.7	297.1	410.6	630.4	538.5
80°	182.6	187.8	202.2	183.6	160.9	129.0	142.4	171.3	246.6	341.5	305.4
82.5°	91.8	98.0	131.0	106.3	95.9	75.3	84.6	101.1	129.0	188.8	119.7
85°	7.2	7.2	23.7	26.8	33.0	26.8	34.0	41.3	58.8	75.3	40.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.1	5.2	9.3	17.5	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°	3597.4	3597.4	3597.4	3597.4	3597.4	3597.4	3597.4	3597.4	3597.4	3597.4	3597.4
2.5°	3603.6	3551.0	3488.1	3436.5	3357.1	3314.8	3261.1	3195.1	3168.3	3155.9	3148.7
5°	3610.8	3518.0	3383.9	3260.1	3122.9	3014.5	2893.8	2768.0	2695.8	2678.2	2665.8
7.5°	3637.7	3507.7	3294.1	3089.9	2835.0	2598.8	2368.7	2140.7	2024.1	1979.8	1975.6
10°	3674.8	3503.6	3203.3	2863.9	2433.7	2060.2	1791.0	1612.5	1537.2	1512.4	1504.2
12.5°	3721.2	3500.5	3083.7	2550.3	1970.5	1617.7	1463.9	1435.1	1445.4	1443.3	1443.3
15°	3780.0	3504.6	2939.2	2195.4	1593.9	1404.1	1407.2	1441.2	1473.2	1478.4	1478.4
17.5°	3844.0	3500.5	2729.8	1839.5	1368.0	1353.6	1401.0	1448.5	1477.4	1481.5	1481.5
20°	3913.1	3480.9	2465.7	1504.2	1269.0	1321.6	1373.2	1410.3	1427.8	1432.0	1432.0
22.5°	3954.4	3425.1	2178.9	1273.1	1206.0	1271.0	1305.1	1343.2	1345.3	1312.3	1311.3
25°	3948.2	3320.9	1851.8	1124.5	1139.0	1195.7	1239.0	1212.2	1179.2	1160.6	1157.5
27.5°	3909.0	3164.1	1518.6	1012.1	1059.5	1123.5	1110.1	1087.4	1079.1	1058.5	1056.4
30°	3859.5	2971.2	1219.4	924.4	977.0	1035.8	1015.2	1013.1	1004.8	982.2	982.2
32.5°	3812.0	2772.1	993.5	859.4	924.4	928.5	957.4	959.5	955.3	916.1	912.0
35°	3798.6	2573.0	840.8	807.8	872.8	870.7	912.0	911.0	839.8	785.1	784.1
37.5°	3838.8	2370.8	750.0	765.5	801.6	828.4	861.4	801.6	777.9	744.9	742.8
40°	3924.5	2184.0	703.6	740.7	756.2	795.4	743.8	748.0	741.8	717.0	713.9
42.5°	4038.0	2025.2	677.8	732.5	730.4	740.7	684.0	700.5	709.8	691.2	688.1
45°	4147.3	1886.9	664.4	701.5	711.9	652.0	640.7	656.1	670.6	663.4	660.3
47.5°	4227.8	1767.3	657.2	659.2	688.1	622.1	603.5	610.7	628.3	631.4	630.4
50°	4252.5	1665.1	648.9	624.2	618.0	592.2	577.7	575.7	596.3	610.7	612.8
52.5°	4205.1	1574.3	627.3	593.2	563.3	567.4	562.3	551.9	572.6	592.2	594.2
55°	4134.9	1522.7	593.2	563.3	528.2	544.7	546.8	537.5	550.9	564.3	564.3
57.5°	4140.1	1552.7	560.2	535.4	497.3	518.9	530.3	526.2	526.2	536.5	537.5
60°	4174.1	1596.0	538.5	500.4	466.3	489.0	514.8	510.7	501.4	514.8	514.8
62.5°	4076.1	1538.2	524.1	466.3	433.3	460.1	491.1	489.0	478.7	500.4	502.4
65°	3787.3	1383.5	507.6	424.0	400.3	431.2	458.1	465.3	456.0	484.9	490.0
67.5°	3174.5	1163.7	475.6	383.8	367.3	396.2	422.0	432.3	425.0	459.1	463.2
70°	2366.7	941.9	425.0	339.4	327.0	352.8	376.6	380.7	381.7	422.0	426.1
72.5°	1509.3	732.5	358.0	289.9	280.6	300.2	317.8	334.3	341.5	379.7	378.6
75°	841.8	544.7	287.8	245.5	229.0	244.5	265.1	284.7	305.4	361.1	367.3
77.5°	484.9	382.7	228.0	197.0	177.4	194.0	211.5	239.3	301.2	349.7	343.5
80°	273.4	248.6	172.3	144.4	132.1	144.4	157.8	210.5	237.3	257.9	261.0
82.5°	127.9	139.3	117.6	88.7	88.7	97.0	109.4	163.0	179.5	146.5	127.9
85°	46.4	62.9	57.8	45.4	40.2	39.2	68.1	92.9	57.8	51.6	44.4
87.5°	12.4	17.5	16.5	11.3	6.2	5.2	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)