

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: P636760

Luminaire Tested: GWS-SA4B-740-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636760
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-740-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14739.4 lumens
Efficiency: N/A
Efficacy: 156.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

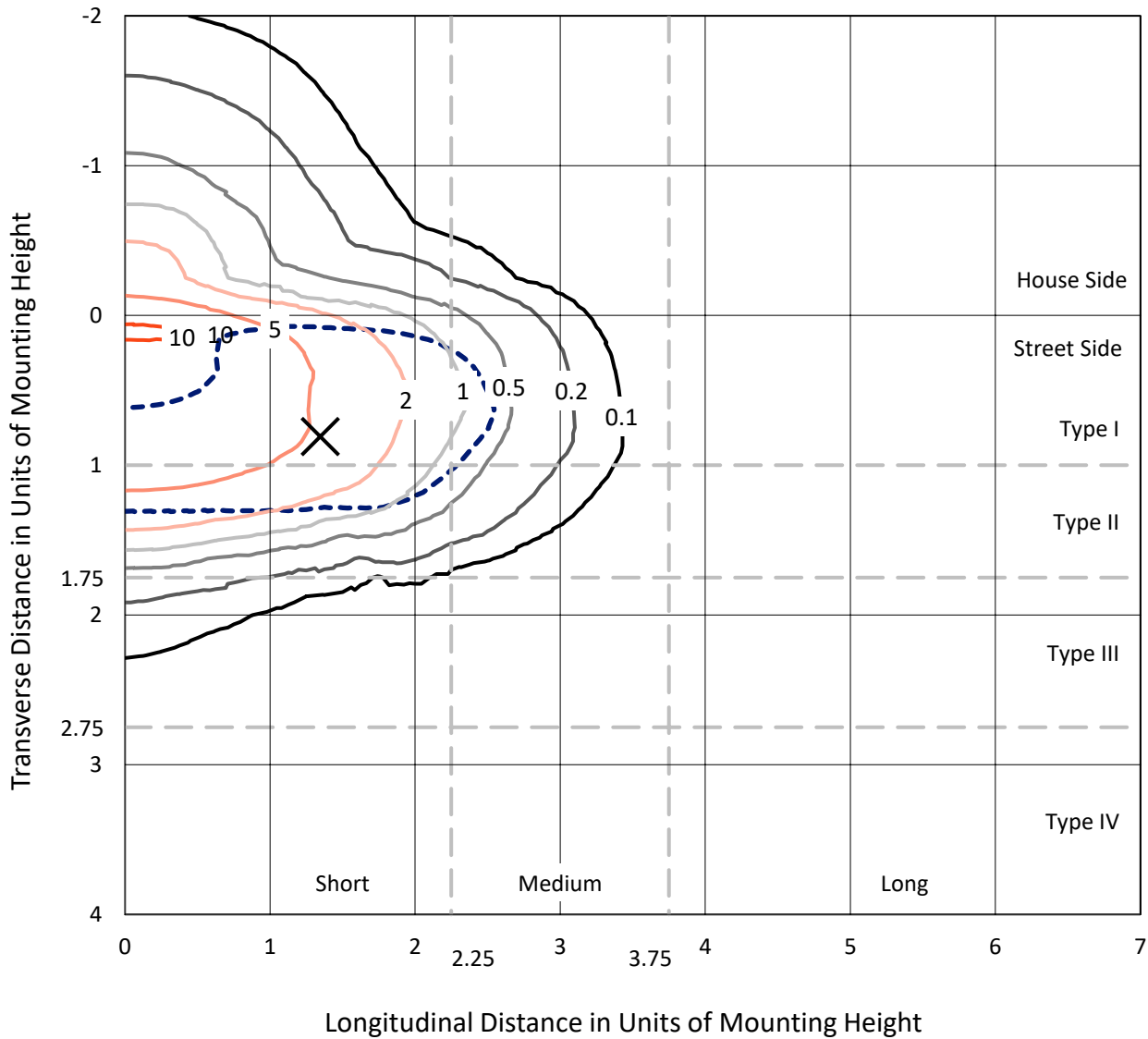
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

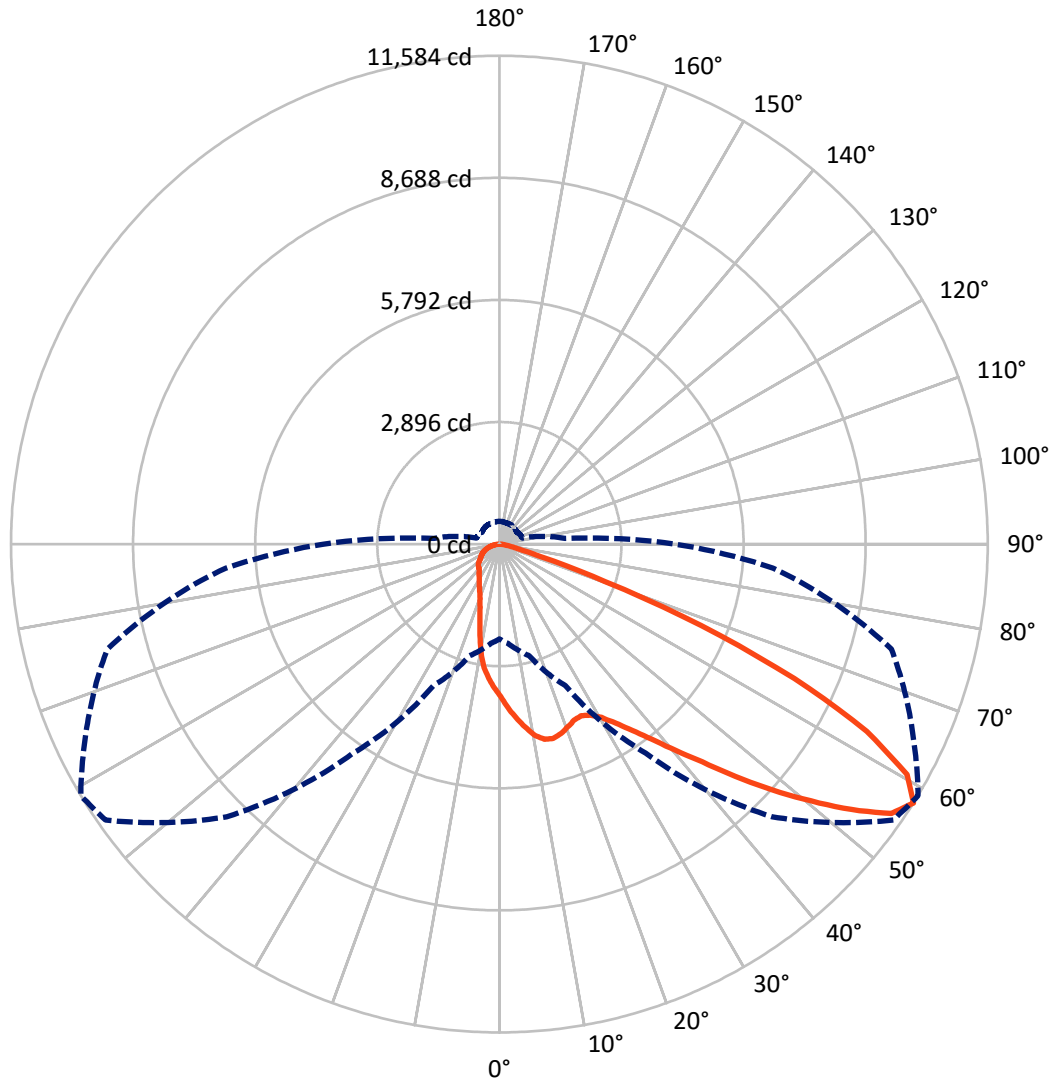
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.1 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	2287.5	0.0	2287.5
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	12451.9	0.0	12451.9
	% Fixture	84.5	0.0	84.5
Total	Lumens	14739.4	0.0	14739.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.0	2.3
10°-20°	851.3	5.8
20°-30°	1380.0	9.4
30°-40°	2219.9	15.1
40°-50°	3447.3	23.4
50°-60°	3713.2	25.2
60°-70°	2155.0	14.6
70°-80°	562.6	3.8
80°-90°	74.1	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°	14739.4	100.0
0°-180°	14739.4	100.0

Coefficient of Utilization



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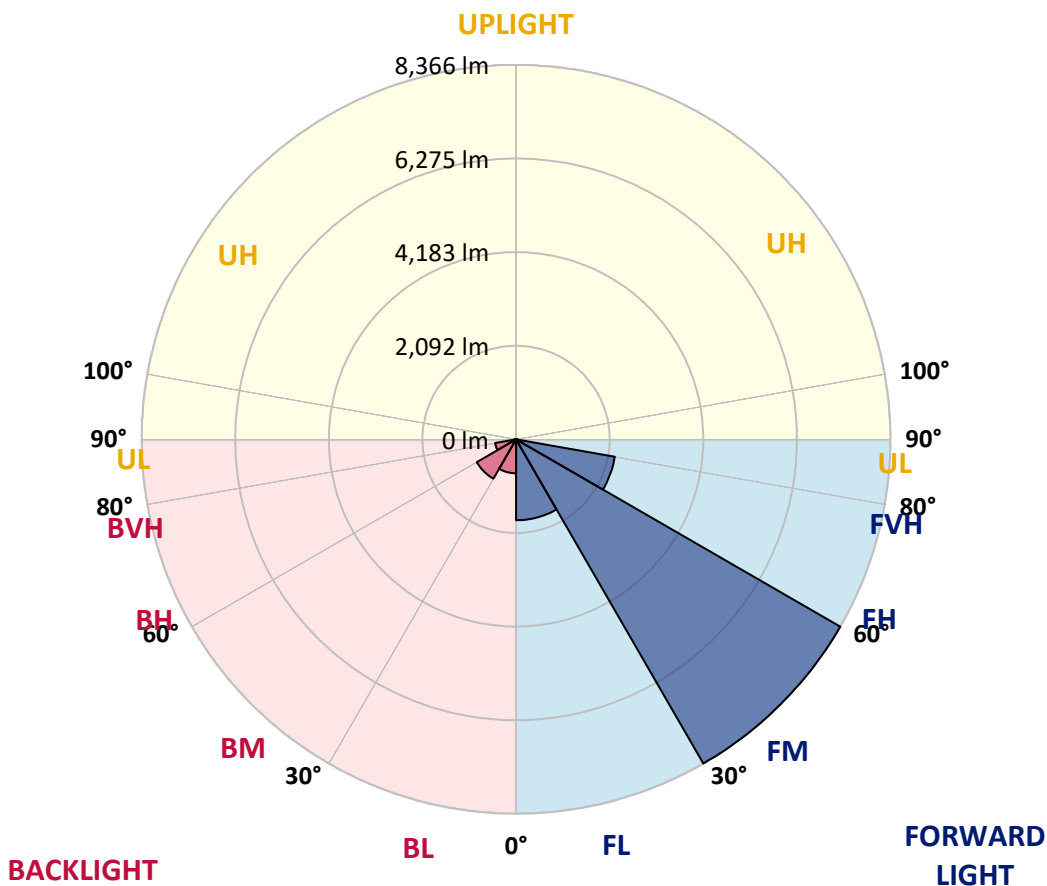
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1808.4	12.3			
FM (30°-60°)	8366.3	56.8			
FH (60°-80°)	2241.8	15.2			G2/5000
FVH (80°-90°)	35.5	0.2			G1/100
BL (0°-30°)	758.9	5.1	B2/1000		
BM (30°-60°)	1014.2	6.9	B2/2500		
BH (60°-80°)	475.8	3.2	B1/500		G1/500
BVH (80°-90°)	38.6	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°	3618.2	3618.2	3618.2	3618.2	3618.2	3618.2	3618.2	3618.2	3618.2	3618.2	3618.2
2.5°	4103.8	4069.6	4093.5	4050.9	4033.3	3986.6	3926.4	3885.9	3823.7	3742.7	3672.2
5°	4511.6	4487.8	4493.0	4447.3	4406.8	4329.0	4205.5	4137.0	4031.2	3868.3	3716.8
7.5°	4499.2	4527.2	4542.8	4582.2	4593.6	4586.3	4475.3	4379.9	4263.6	4018.8	3790.5
10°	4033.3	4086.2	4133.9	4268.8	4432.8	4640.3	4666.2	4609.2	4491.9	4210.7	3878.7
12.5°	3525.9	3566.3	3608.9	3770.8	4021.9	4436.9	4718.1	4753.4	4706.7	4400.6	3978.3
15°	3276.8	3295.5	3336.0	3442.9	3643.1	4103.8	4627.8	4782.5	4866.5	4601.9	4090.4
17.5°	3266.5	3274.8	3294.5	3351.6	3490.6	3846.5	4464.9	4724.3	4992.1	4814.6	4221.1
20°	3481.3	3459.5	3447.0	3446.0	3514.5	3760.4	4307.2	4631.0	5051.2	5032.5	4361.2
22.5°	3779.1	3786.3	3759.3	3692.9	3684.6	3821.6	4228.4	4536.5	5068.8	5225.5	4490.9
25°	4201.4	4237.7	4157.8	4031.2	3968.9	3999.0	4277.1	4507.5	5066.8	5386.4	4571.8
27.5°	4694.3	4722.3	4641.3	4475.3	4346.6	4274.0	4422.4	4593.6	5084.4	5525.4	4620.6
30°	5255.6	5265.0	5153.9	4979.6	4791.8	4636.1	4664.2	4771.0	5174.7	5708.0	4677.7
32.5°	5941.5	5980.9	5812.8	5536.8	5274.3	5075.1	4988.9	5057.4	5369.8	5923.8	4765.9
35°	6812.1	6825.6	6611.8	6216.5	5845.0	5569.0	5388.4	5424.7	5666.5	6225.8	4898.7
37.5°	7632.8	7646.3	7419.1	7051.8	6520.5	6142.8	5881.3	5864.7	6046.3	6652.3	5115.5
40°	8153.7	8192.1	8090.4	7860.1	7352.7	6843.2	6488.3	6431.3	6544.4	7174.2	5417.5
42.5°	8433.9	8450.5	8448.4	8478.5	8176.6	7670.2	7173.2	7059.0	7134.8	7737.6	5722.5
45°	8436.0	8477.5	8588.5	8878.0	8891.5	8576.0	8038.5	7860.1	7790.6	8305.2	6041.1
47.5°	8058.3	8102.9	8407.9	8977.6	9397.8	9469.4	9075.1	8717.2	8424.5	8793.9	6302.6
50°	6914.8	7026.9	7607.9	8615.5	9497.5	10185.4	10064.0	9578.4	8988.0	9171.6	6466.5
52.5°	5921.8	5917.6	6275.6	7592.4	9081.4	10500.9	11020.7	10464.5	9545.2	9411.3	6508.0
55°	4336.3	4360.1	4726.4	5806.6	7971.1	10195.8	11546.8	11280.1	10184.4	9539.0	6491.4
57.5°	2248.6	2366.8	2742.5	3705.4	6056.7	9145.7	11406.7	11584.1	10833.9	9629.2	6513.2
60°	1136.2	1113.4	1248.3	1769.2	3509.3	7143.1	10543.4	11108.9	10951.2	9699.8	6526.7
62.5°	758.5	752.3	714.9	819.7	1434.0	4230.4	8988.0	9780.7	10136.6	9533.8	6354.5
65°	656.8	644.4	575.9	571.7	696.3	1754.6	6587.9	7688.9	8377.9	8796.0	5942.5
67.5°	591.5	572.8	503.3	469.0	500.1	771.0	3712.7	5157.0	6186.4	7438.8	5039.8
70°	528.2	518.8	449.3	399.5	396.4	470.0	1367.6	2661.5	3785.3	5075.1	3684.6
72.5°	473.2	456.6	397.4	349.7	325.8	333.1	593.5	1025.2	1959.1	3165.8	2203.9
75°	409.9	397.4	345.5	297.8	268.7	243.8	362.1	474.2	893.4	1504.6	1040.7
77.5°	316.5	308.2	272.9	236.6	220.0	181.6	220.0	298.8	413.0	634.0	541.6
80°	183.7	188.8	203.4	184.7	161.9	129.7	143.2	172.2	248.0	343.5	307.1
82.5°	92.3	98.6	131.8	106.9	96.5	75.7	85.1	101.7	129.7	189.9	120.4
85°	7.3	7.3	23.9	27.0	33.2	27.0	34.2	41.5	59.1	75.7	40.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.1	5.2	9.3	17.6	11.4
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°	3618.2	3618.2	3618.2	3618.2	3618.2	3618.2	3618.2	3618.2	3618.2	3618.2	3618.2
2.5°	3624.5	3571.5	3508.2	3456.4	3376.5	3333.9	3280.0	3213.6	3186.6	3174.1	3166.9
5°	3631.7	3538.3	3403.4	3278.9	3140.9	3032.0	2910.6	2784.0	2711.3	2693.7	2681.2
7.5°	3658.7	3528.0	3313.2	3107.7	2851.4	2613.8	2382.4	2153.1	2035.8	1991.2	1987.1
10°	3696.1	3523.8	3221.9	2880.5	2447.8	2072.2	1801.3	1621.8	1546.1	1521.2	1512.9
12.5°	3742.7	3520.7	3101.5	2565.0	1981.9	1627.0	1472.4	1443.3	1453.7	1451.6	1451.6
15°	3801.9	3524.8	2956.2	2208.1	1603.1	1412.2	1415.3	1449.6	1481.7	1486.9	1486.9
17.5°	3866.2	3520.7	2745.6	1850.1	1375.9	1361.4	1409.1	1456.8	1485.9	1490.0	1490.0
20°	3935.7	3501.0	2479.9	1512.9	1276.3	1329.2	1381.1	1418.4	1436.1	1440.2	1440.2
22.5°	3977.2	3444.9	2191.5	1280.4	1213.0	1278.4	1312.6	1351.0	1353.1	1319.9	1318.8
25°	3971.0	3340.1	1862.6	1131.0	1145.5	1202.6	1246.2	1219.2	1186.0	1167.3	1164.2
27.5°	3931.6	3182.4	1527.4	1017.9	1065.6	1130.0	1116.5	1093.7	1085.4	1064.6	1062.5
30°	3881.8	2988.4	1226.5	929.7	982.6	1041.8	1021.0	1019.0	1010.7	987.8	987.8
32.5°	3834.1	2788.1	999.2	864.3	929.7	933.9	962.9	965.0	960.8	921.4	917.3
35°	3820.6	2587.9	845.7	812.5	877.8	875.8	917.3	916.2	844.6	789.6	788.6
37.5°	3861.0	2384.5	754.4	769.9	806.2	833.2	866.4	806.2	782.4	749.2	747.1
40°	3947.2	2196.7	707.7	745.0	760.6	800.0	748.1	752.3	746.1	721.2	718.0
42.5°	4061.3	2036.9	681.7	736.7	734.6	745.0	688.0	704.6	713.9	695.2	692.1
45°	4171.3	1897.8	668.2	705.6	716.0	655.8	644.4	659.9	674.5	667.2	664.1
47.5°	4252.2	1777.5	661.0	663.0	692.1	625.7	607.0	614.3	631.9	635.0	634.0
50°	4277.1	1674.7	652.7	627.8	621.5	595.6	581.1	579.0	599.8	614.3	616.4
52.5°	4229.4	1583.4	630.9	596.6	566.5	570.7	565.5	555.1	575.9	595.6	597.7
55°	4158.8	1531.5	596.6	566.5	531.3	547.9	549.9	540.6	554.1	567.6	567.6
57.5°	4164.0	1561.6	563.4	538.5	500.1	521.9	533.3	529.2	529.2	539.6	540.6
60°	4198.3	1605.2	541.6	503.3	469.0	491.8	517.8	513.6	504.3	517.8	517.8
62.5°	4099.7	1547.1	527.1	469.0	435.8	462.8	493.9	491.8	481.5	503.3	505.3
65°	3809.2	1391.5	510.5	426.5	402.6	433.7	460.7	468.0	458.6	487.7	492.9
67.5°	3192.8	1170.5	478.3	386.0	369.4	398.5	424.4	434.8	427.5	461.7	465.9
70°	2380.3	947.4	427.5	341.4	328.9	354.9	378.7	382.9	383.9	424.4	428.5
72.5°	1518.1	736.7	360.1	291.6	282.2	302.0	319.6	336.2	343.5	381.8	380.8
75°	846.7	547.9	289.5	247.0	230.4	245.9	266.7	286.4	307.1	363.2	369.4
77.5°	487.7	385.0	229.3	198.2	178.5	195.1	212.7	240.7	303.0	351.8	345.5
80°	275.0	250.1	173.3	145.3	132.8	145.3	158.8	211.7	238.7	259.4	262.5
82.5°	128.7	140.1	118.3	89.2	89.2	97.5	110.0	163.9	180.5	147.3	128.7
85°	46.7	63.3	58.1	45.7	40.5	39.4	68.5	93.4	58.1	51.9	44.6
87.5°	12.5	17.6	16.6	11.4	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)