

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: P637729

Luminaire Tested: GWS-SA4D-735-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-735-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24169.8 lumens
Efficiency: N/A
Efficacy: 149.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

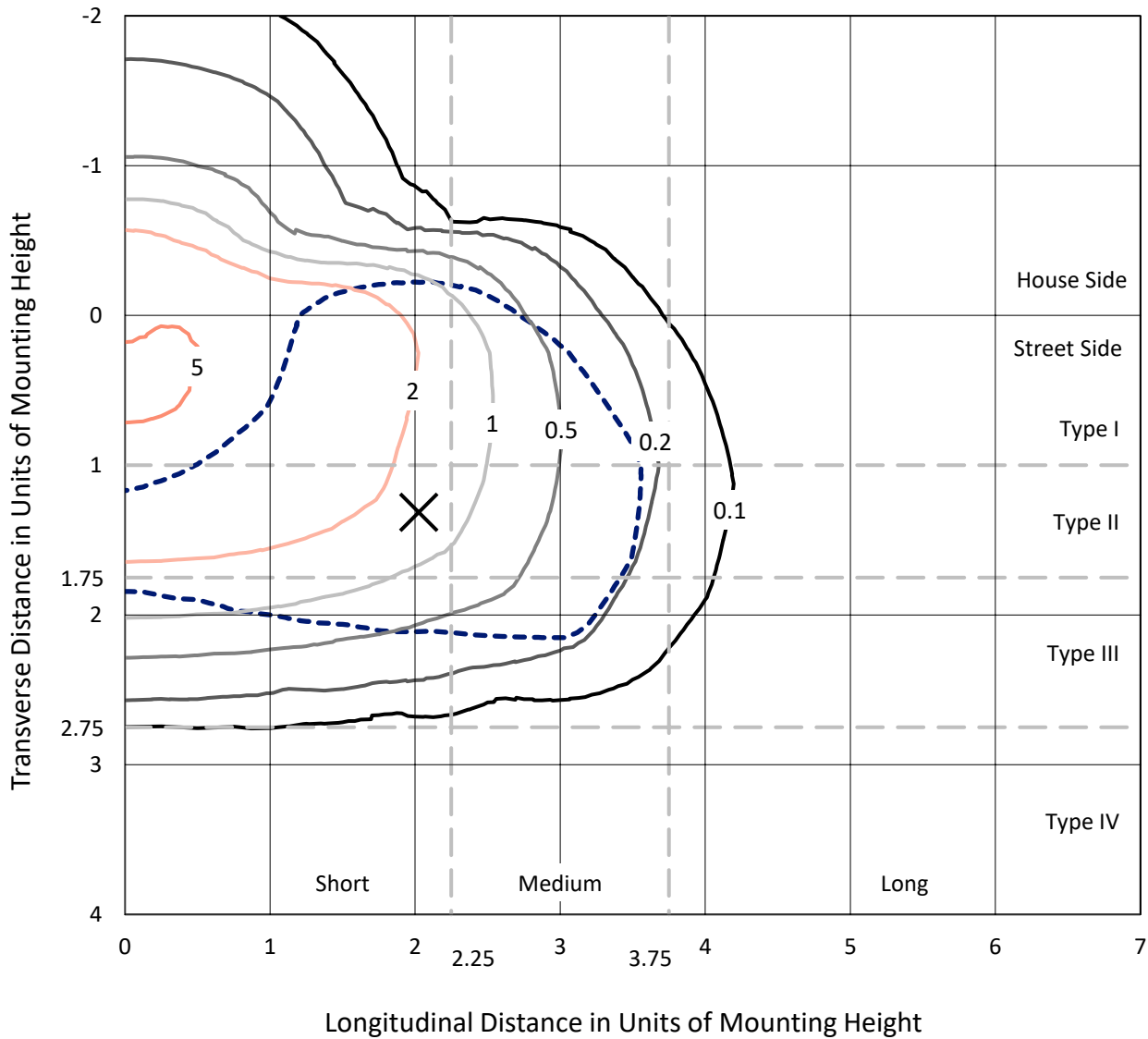
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

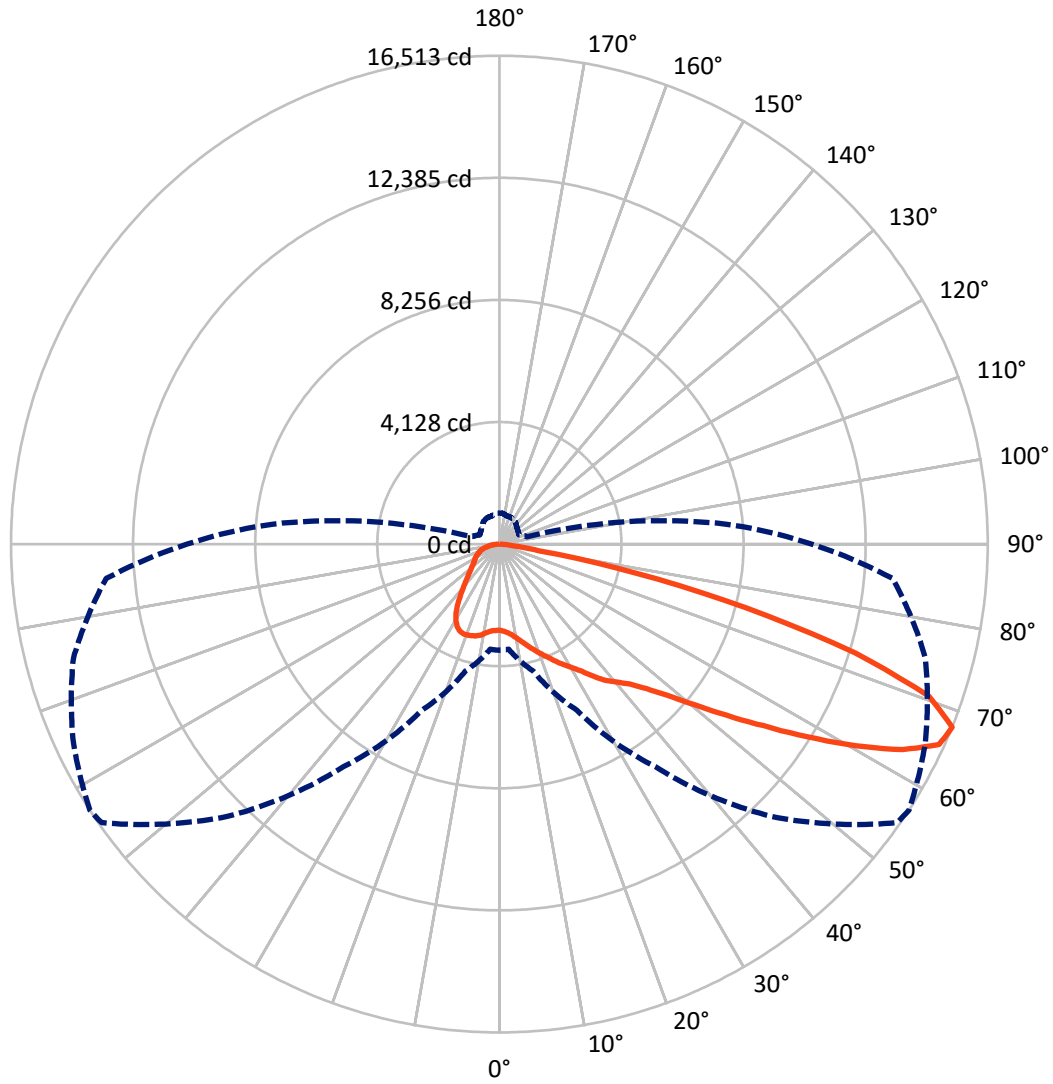
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5314.0	0.0	5314.0
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	18855.8	0.0	18855.8
	% Fixture	78.0	0.0	78.0
Total	Lumens	24169.8	0.0	24169.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.8	1.2
10°-20°	956.2	4.0
20°-30°	1704.7	7.1
30°-40°	2478.5	10.3
40°-50°	3587.2	14.8
50°-60°	5613.8	23.2
60°-70°	6548.9	27.1
70°-80°	2733.8	11.3
80°-90°	258.0	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°	24169.8	100.0
0°-180°	24169.8	100.0

Coefficient of Utilization



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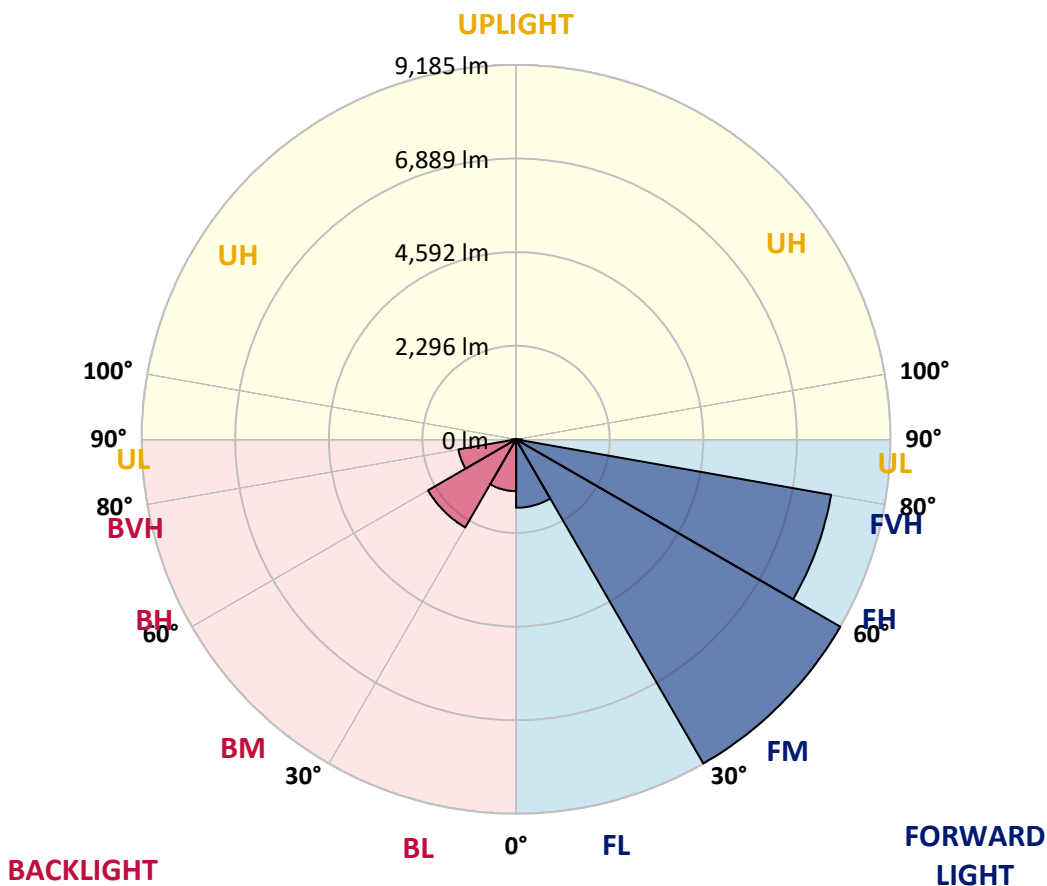
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1678.8	6.9			
FM (30°-60°)	9184.9	38.0			
FH (60°-80°)	7848.3	32.5			G4/12000
FVH (80°-90°)	143.7	0.6			G2/225
BL (0°-30°)	1270.9	5.3	B3/2500		
BM (30°-60°)	2494.6	10.3	B2/2500		
BH (60°-80°)	1434.3	5.9	B3/2500		G3/2500
BVH (80°-90°)	114.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2912.3	2912.3	2912.3	2912.3	2912.3	2912.3	2912.3	2912.3	2912.3	2912.3	2912.3
2.5°	2953.9	2950.4	2948.7	2959.0	2955.6	2953.9	2953.9	2952.1	2948.7	2934.8	2915.8
5°	3035.2	3028.3	3021.4	3030.0	3023.1	3016.2	3014.5	3011.0	2998.9	2978.1	2948.7
7.5°	3120.1	3113.1	3114.9	3120.1	3114.9	3111.4	3106.2	3102.8	3083.7	3050.8	3011.0
10°	3239.5	3239.5	3243.0	3248.2	3249.9	3244.7	3234.3	3229.2	3206.6	3165.1	3109.7
12.5°	3412.7	3409.2	3409.2	3405.8	3411.0	3405.8	3395.4	3386.7	3359.0	3305.3	3225.7
15°	3641.2	3627.4	3615.3	3592.8	3585.8	3566.8	3570.2	3565.1	3539.1	3466.4	3365.9
17.5°	3885.4	3883.6	3864.6	3819.6	3774.6	3743.4	3750.3	3748.6	3734.7	3636.0	3507.9
20°	4100.1	4108.7	4091.4	4056.8	3996.2	3937.3	3933.9	3942.5	3925.2	3826.5	3648.2
22.5°	4340.7	4333.8	4316.5	4271.5	4226.5	4164.1	4143.4	4136.4	4129.5	4017.0	3791.9
25°	4569.3	4590.1	4567.6	4526.0	4456.7	4389.2	4371.9	4378.8	4359.8	4210.9	3946.0
27.5°	4858.4	4867.1	4853.3	4796.1	4737.2	4642.0	4609.1	4609.1	4602.2	4392.7	4067.2
30°	5166.6	5190.9	5166.6	5119.9	5059.3	4922.5	4851.5	4844.6	4823.8	4579.7	4209.2
32.5°	5476.6	5493.9	5476.6	5431.6	5362.3	5242.8	5140.7	5125.1	5097.4	4784.0	4354.6
35°	5751.9	5767.5	5764.0	5774.4	5717.2	5566.6	5504.3	5497.3	5424.6	5050.6	4552.0
37.5°	6053.1	6072.2	6046.2	6067.0	6044.5	5902.5	5883.5	5848.8	5744.9	5301.7	4759.8
40°	6396.0	6413.3	6371.7	6380.4	6354.4	6274.8	6177.8	6131.1	5977.0	5573.5	5087.0
42.5°	6763.0	6802.9	6821.9	6806.3	6745.7	6700.7	6531.0	6472.2	6344.0	6063.5	5625.5
45°	7294.6	7353.5	7381.2	7341.3	7315.4	7251.3	7043.5	6972.5	6905.0	6754.4	6376.9
47.5°	7867.7	7921.4	8009.7	8027.0	8047.8	7999.3	7706.7	7637.4	7649.5	7632.2	7301.5
50°	8324.8	8369.8	8568.9	8781.9	8958.5	8972.4	8598.4	8523.9	8589.7	8645.1	8414.8
52.5°	8657.2	8697.1	8960.2	9400.0	9800.0	10096.1	9692.6	9607.8	9661.5	9786.1	9680.5
55°	8927.3	8982.8	9258.1	9933.3	10741.9	11209.4	10951.4	10844.1	10821.6	10975.7	11036.3
57.5°	9069.3	9086.6	9472.8	10350.6	11432.8	12301.9	12414.5	12293.3	12078.6	12163.4	12478.5
60°	8745.5	8775.0	9303.1	10457.9	11978.2	13385.8	13950.3	13849.9	13392.8	13439.5	13787.5
62.5°	7850.4	7891.9	8527.4	9947.2	12023.2	14109.6	15368.3	15304.3	14691.3	14438.5	14542.4
65°	6297.3	6311.1	6969.1	8683.2	11128.0	14199.6	16357.0	16341.4	15598.6	15006.5	14561.5
67.5°	3591.0	3566.8	4446.4	6193.4	9183.6	13029.1	16421.1	16512.8	15893.0	14913.0	13349.5
70°	1556.6	1560.0	1965.2	3056.0	5944.1	10530.7	15252.3	15409.9	15041.1	13356.4	10620.7
72.5°	720.3	730.7	905.5	1322.8	2538.3	6532.8	12437.0	12579.0	12262.1	10690.0	7727.5
75°	509.0	517.7	604.3	758.4	1167.0	2545.2	8319.6	8617.4	8771.5	7995.8	5092.2
77.5°	386.1	398.2	441.5	526.4	720.3	902.1	3980.6	4690.5	5587.4	4974.5	2623.1
80°	245.9	245.9	292.6	351.5	439.8	469.2	1149.7	1362.6	2734.0	2050.0	1030.2
82.5°	166.2	171.4	199.1	223.4	252.8	266.6	493.5	526.4	789.5	697.8	424.2
85°	88.3	91.8	103.9	102.2	121.2	105.6	207.8	206.0	289.2	316.9	161.0
87.5°	0.0	0.0	1.7	1.7	3.5	5.2	22.5	24.2	60.6	97.0	53.7
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°	2912.3	2912.3	2912.3	2912.3	2912.3	2912.3	2912.3	2912.3	2912.3	2912.3	2912.3
2.5°	2926.1	2905.4	2915.8	2912.3	2922.7	2922.7	2903.6	2898.4	2900.2	2879.4	2872.5
5°	2952.1	2927.9	2933.1	2926.1	2936.5	2945.2	2936.5	2936.5	2946.9	2931.3	2922.7
7.5°	3011.0	2983.3	2983.3	2974.6	2986.7	2993.7	2986.7	2997.1	3016.2	3000.6	2991.9
10°	3104.5	3071.6	3073.3	3062.9	3068.1	3064.7	3037.0	3028.3	3033.5	3019.6	3012.7
12.5°	3225.7	3180.7	3180.7	3159.9	3147.8	3111.4	3054.3	3033.5	3037.0	3024.8	3019.6
15°	3341.7	3300.1	3291.5	3249.9	3194.5	3127.0	3075.1	3061.2	3064.7	3052.5	3043.9
17.5°	3478.5	3424.8	3393.6	3317.5	3215.3	3146.0	3094.1	3061.2	3033.5	3005.8	2998.9
20°	3604.9	3537.3	3480.2	3362.5	3237.8	3142.6	3045.6	2964.2	2896.7	2860.4	2851.7
22.5°	3734.7	3648.2	3547.7	3393.6	3236.1	3080.2	2901.9	2779.0	2678.6	2624.9	2635.3
25°	3857.7	3748.6	3611.8	3423.1	3180.7	2941.7	2699.3	2515.8	2401.5	2360.0	2347.8
27.5°	3959.8	3824.8	3670.7	3409.2	3066.4	2742.6	2422.3	2218.0	2107.2	2060.4	2048.3
30°	4074.1	3921.7	3755.5	3345.2	2886.3	2463.9	2108.9	1942.7	1863.0	1818.0	1819.8
32.5°	4205.7	4046.4	3875.0	3222.2	2656.0	2162.6	1850.9	1736.6	1672.6	1627.6	1620.6
35°	4382.3	4224.7	3954.6	3037.0	2363.4	1885.5	1674.3	1580.8	1501.2	1442.3	1430.2
37.5°	4600.5	4493.1	3963.3	2789.4	2050.0	1695.1	1547.9	1447.5	1350.5	1272.6	1264.0
40°	4974.5	4851.5	3892.3	2479.4	1783.4	1572.2	1442.3	1326.3	1213.7	1127.2	1115.1
42.5°	5507.7	5254.9	3739.9	2129.7	1582.5	1475.2	1341.9	1194.7	1080.4	1019.8	1011.2
45°	6186.5	5705.1	3511.4	1800.7	1433.6	1380.0	1236.3	1082.2	1021.6	978.3	969.6
47.5°	7017.6	6229.8	3248.2	1544.5	1317.6	1293.4	1128.9	1044.1	990.4	954.0	945.4
50°	8011.4	6898.1	3031.8	1343.6	1213.7	1193.0	1094.3	1021.6	978.3	948.8	941.9
52.5°	9145.5	7640.9	2926.1	1199.9	1123.7	1102.9	1082.2	1016.4	980.0	957.5	948.8
55°	10322.9	8423.5	2827.5	1089.1	1047.5	1059.6	1083.9	1033.7	1006.0	976.5	967.9
57.5°	11460.5	9157.6	2585.1	1002.5	992.1	1038.9	1092.5	1051.0	1018.1	988.7	978.3
60°	12244.8	9559.3	2174.7	933.3	950.6	1012.9	1070.0	1025.0	983.5	971.3	966.1
62.5°	12456.0	9510.8	1688.2	862.3	900.4	955.8	1011.2	981.7	938.4	957.5	959.2
65°	11962.6	8991.4	1267.4	793.0	834.6	881.3	950.6	938.4	922.9	974.8	976.5
67.5°	10565.3	7715.3	966.1	732.4	767.0	824.2	931.5	981.7	985.2	1051.0	1044.1
70°	7994.1	5764.0	756.6	675.3	715.1	824.2	992.1	1014.6	973.1	1033.7	1019.8
72.5°	5526.8	3804.0	644.1	625.1	651.0	786.1	990.4	990.4	945.4	945.4	919.4
75°	3433.5	2237.0	561.0	561.0	561.0	687.4	962.7	912.5	832.8	796.5	775.7
77.5°	1695.1	1087.3	471.0	488.3	469.2	574.8	786.1	746.3	697.8	659.7	645.8
80°	723.7	543.7	380.9	400.0	377.5	432.9	623.3	614.7	567.9	517.7	502.1
82.5°	332.4	280.5	304.7	313.4	275.3	325.5	455.4	455.4	429.4	360.1	334.2
85°	142.0	148.9	211.2	211.2	173.1	183.5	244.1	232.0	207.8	169.7	155.8
87.5°	48.5	72.7	107.3	93.5	36.4	15.6	8.7	3.5	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)