

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: P642463

Luminaire Tested: GWS-SA6C-830-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6C-830-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22930.8 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

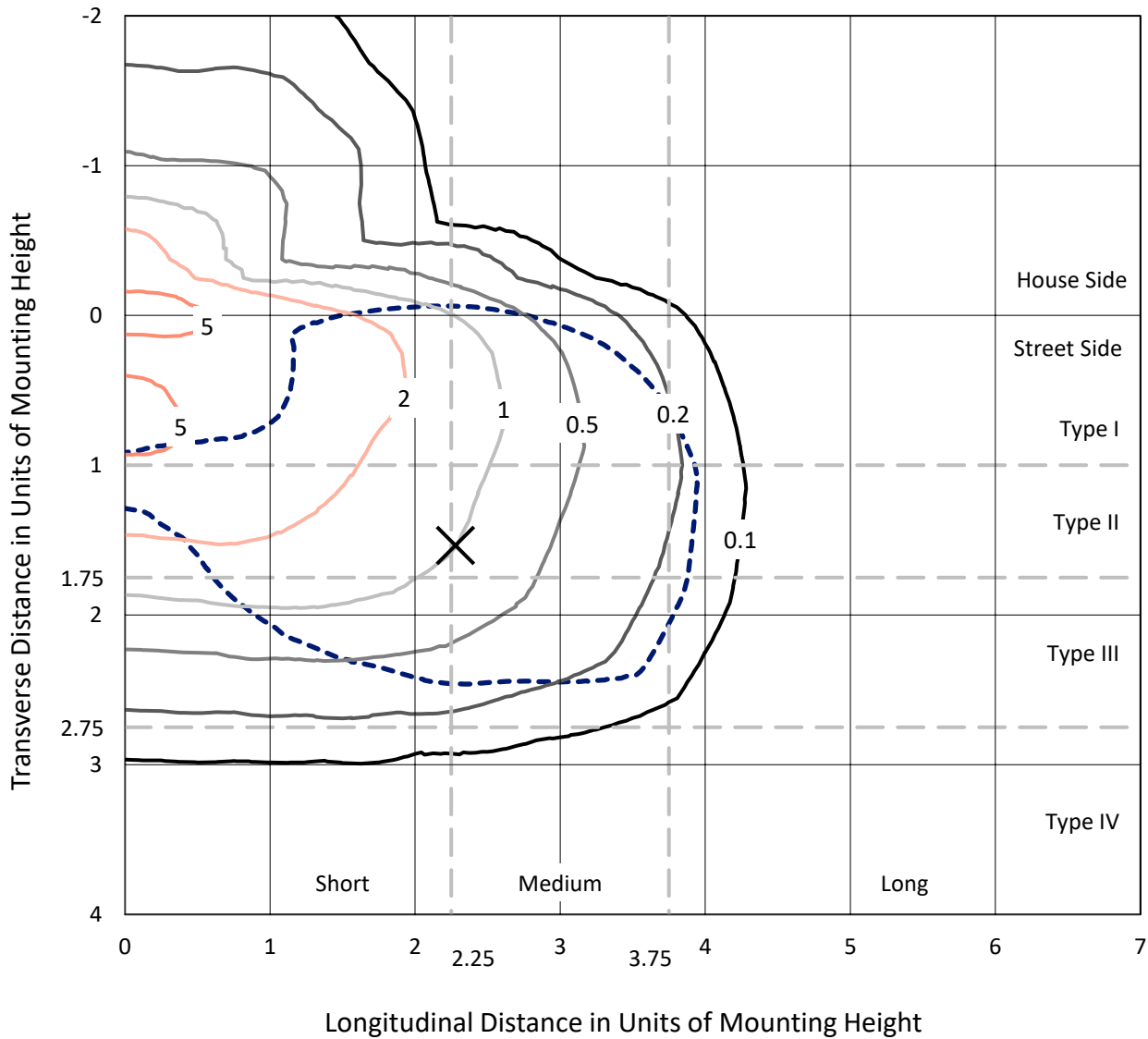
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

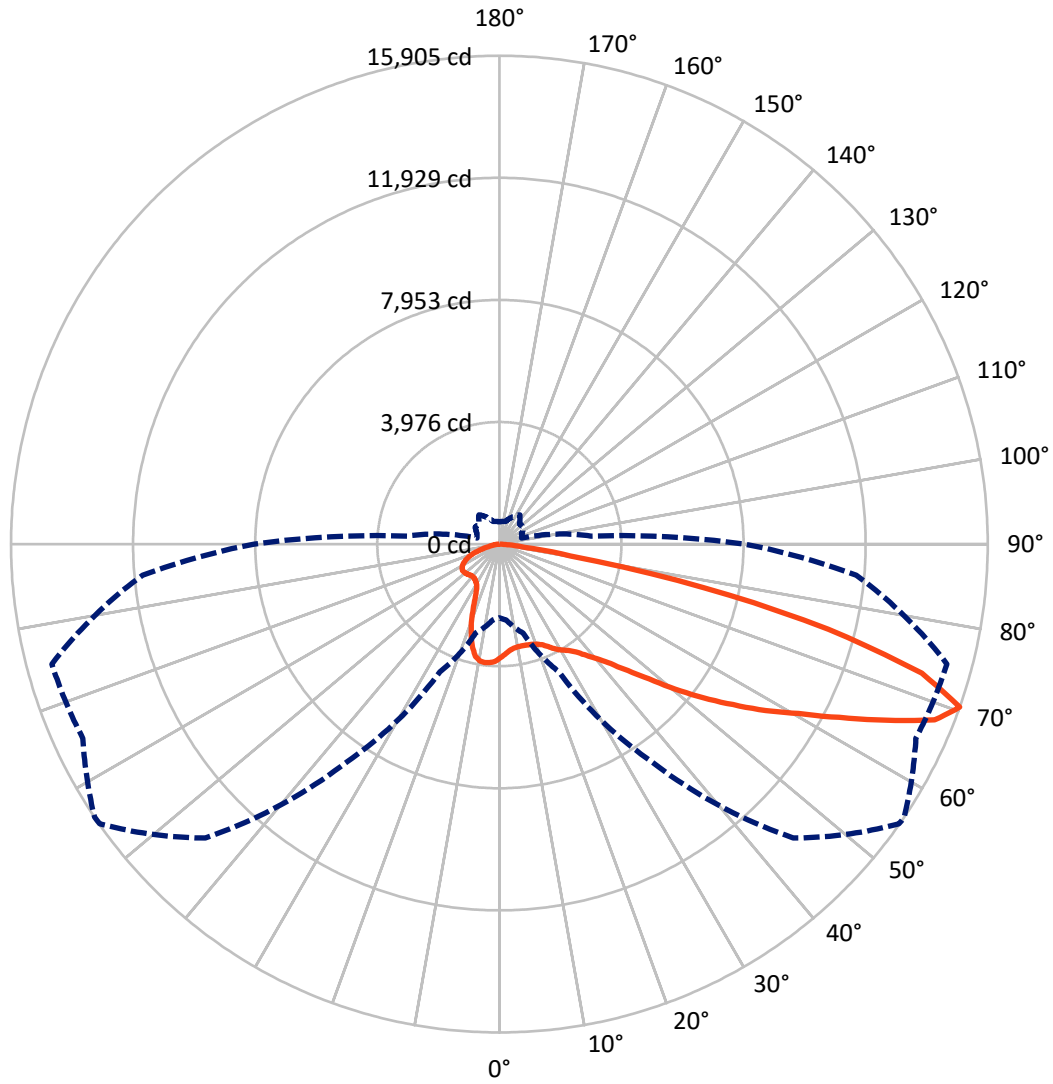
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4408.5	0.0	4408.5
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	18522.3	0.0	18522.3
	% Fixture	80.8	0.0	80.8
Total	Lumens	22930.8	0.0	22930.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.5	1.5
10°-20°	928.1	4.0
20°-30°	1534.4	6.7
30°-40°	2294.1	10.0
40°-50°	3413.9	14.9
50°-60°	4853.6	21.2
60°-70°	6011.3	26.2
70°-80°	3319.3	14.5
80°-90°	233.8	1.0
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°	22930.8	100.0
0°-180°	22930.8	100.0

Coefficient of Utilization



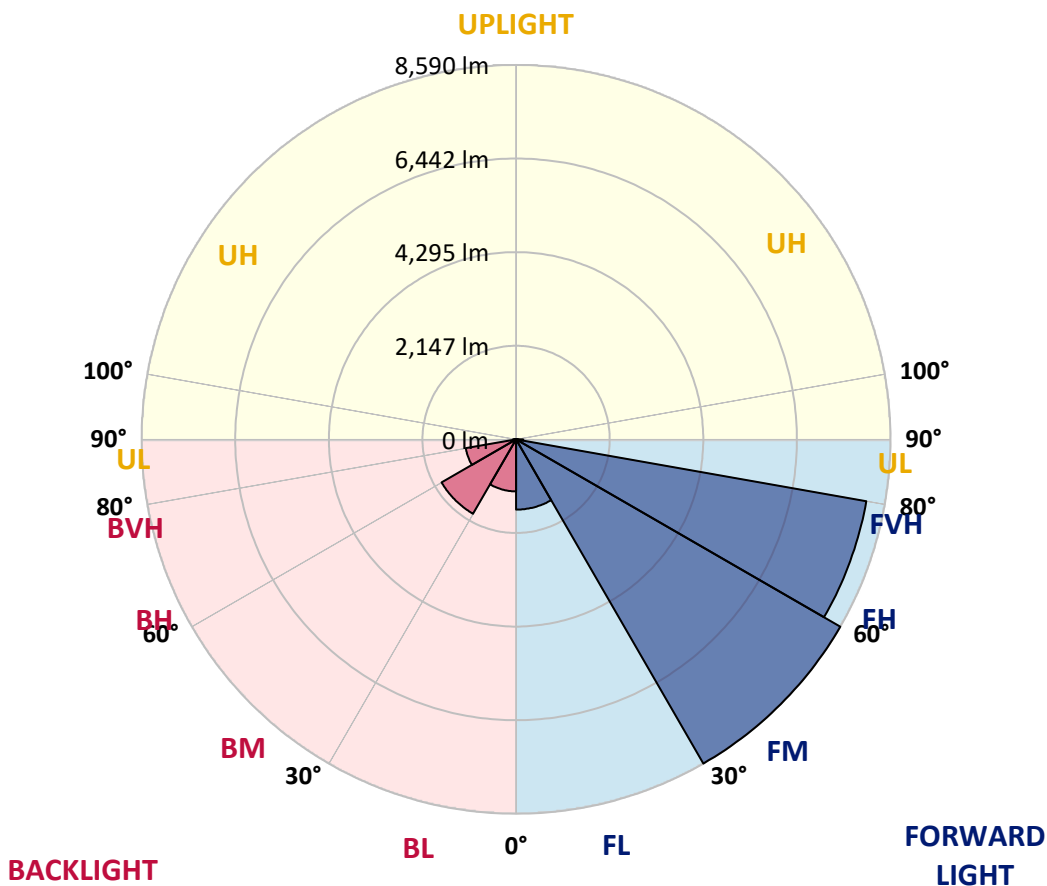
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1611.5	7.0			
FM (30°-60°)	8589.5	37.5			
FH (60°-80°)	8158.8	35.6			G4/12000
FVH (80°-90°)	162.4	0.7			G2/225
BL (0°-30°)	1193.4	5.2	B3/2500		
BM (30°-60°)	1972.0	8.6	B2/2500		
BH (60°-80°)	1171.8	5.1	B3/2500		G3/2500
BVH (80°-90°)	71.3	0.3			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3701.4	3701.4	3701.4	3701.4	3701.4	3701.4	3701.4	3701.4	3701.4	3701.4	3701.4
2.5°	3463.7	3444.3	3466.9	3478.2	3507.3	3549.4	3586.6	3588.2	3607.6	3654.5	3699.8
5°	3306.8	3297.1	3303.6	3337.6	3368.3	3421.6	3478.2	3483.1	3538.1	3630.2	3720.8
7.5°	3185.6	3172.6	3196.9	3240.5	3279.3	3339.2	3413.6	3420.0	3497.6	3636.7	3775.8
10°	3010.9	3001.2	3046.5	3104.7	3188.8	3287.4	3386.1	3394.1	3496.0	3678.7	3872.8
12.5°	2934.9	2934.9	2954.3	3009.3	3101.5	3232.4	3381.2	3394.1	3521.9	3743.4	3997.3
15°	3053.0	3061.0	3044.9	3041.6	3078.8	3203.3	3387.7	3407.1	3570.4	3809.7	4120.2
17.5°	3290.7	3298.7	3256.7	3190.4	3153.2	3230.8	3411.9	3433.0	3622.1	3882.5	4252.8
20°	3623.8	3633.5	3541.3	3439.4	3311.7	3310.1	3458.8	3478.2	3688.4	3961.7	4393.5
22.5°	4013.5	4019.9	3903.5	3741.8	3546.1	3457.2	3539.7	3559.1	3774.2	4071.7	4545.5
25°	4464.6	4484.0	4343.3	4108.9	3843.7	3659.3	3673.9	3696.5	3927.8	4218.8	4725.0
27.5°	4946.5	4970.8	4809.1	4550.3	4184.9	3882.5	3846.9	3866.3	4091.1	4309.4	4820.4
30°	5439.7	5457.5	5295.8	4999.9	4551.9	4134.7	3992.4	4003.8	4162.2	4353.0	4917.4
32.5°	5987.9	5973.3	5818.1	5476.9	4975.6	4437.1	4128.3	4125.0	4241.5	4440.4	5056.5
35°	6502.1	6523.1	6358.2	5981.4	5441.3	4810.7	4332.0	4319.1	4409.6	4582.7	5252.1
37.5°	7124.6	7118.2	6920.9	6513.4	5908.6	5168.0	4618.2	4595.6	4627.9	4804.2	5525.4
40°	7569.3	7614.6	7486.9	7106.9	6455.2	5607.9	4953.0	4902.8	4910.9	5077.5	5890.8
42.5°	7933.2	7975.2	7988.1	7745.6	7081.0	6151.2	5370.2	5320.0	5324.9	5561.0	6340.4
45°	8212.9	8269.5	8452.2	8381.1	7786.0	6778.6	5934.5	5882.8	5886.0	6148.0	6883.7
47.5°	8327.7	8389.2	8759.5	8929.2	8534.7	7528.9	6636.3	6560.3	6571.6	6861.1	7504.6
50°	8290.5	8373.0	8874.3	9351.3	9162.1	8292.1	7475.5	7422.2	7378.5	7798.9	8178.9
52.5°	7970.3	8060.9	8862.9	9619.7	9674.7	9013.3	8342.3	8311.5	8301.8	8795.0	8932.5
55°	7027.6	7179.6	8473.2	9690.9	10075.7	9692.5	9281.8	9230.0	9280.1	9862.3	9694.1
57.5°	6505.3	6618.5	7710.0	9611.6	10404.0	10339.3	10219.6	10224.5	10281.1	11021.7	10617.4
60°	6207.8	6340.4	7286.3	9394.9	10719.3	11125.2	11201.2	11201.2	11303.0	12271.6	11555.3
62.5°	5813.2	5947.4	6890.2	8977.8	11010.4	12050.1	12435.0	12430.1	12470.5	13612.2	12472.2
65°	5012.8	5137.3	6094.6	8319.6	11152.7	13068.8	13836.9	13822.4	13741.5	14805.5	13078.5
67.5°	3639.9	3758.0	4668.4	7068.0	10640.1	13890.3	15280.9	15287.4	14803.9	15557.5	13110.9
70°	2399.7	2480.5	3001.2	4590.8	8652.7	13536.2	15885.7	15905.1	14967.2	15088.5	11668.5
72.5°	1497.4	1554.0	1874.1	2737.6	5113.1	10714.4	14333.4	14386.7	13465.0	13259.7	9587.4
75°	994.5	1033.3	1246.7	1596.0	2365.7	5798.7	10895.6	11067.0	10792.1	10394.3	6680.0
77.5°	598.3	630.6	794.0	1013.9	1047.8	2265.5	6359.8	6802.8	6841.7	5426.8	2797.5
80°	273.3	310.5	438.2	578.9	557.9	789.1	2242.8	2346.3	2768.4	1723.8	882.9
82.5°	161.7	177.9	291.1	287.8	237.7	383.2	806.9	827.9	703.4	630.6	376.8
85°	64.7	76.0	122.9	108.3	87.3	124.5	304.0	318.6	305.6	274.9	139.1
87.5°	0.0	0.0	0.0	0.0	1.6	3.2	27.5	29.1	42.0	76.0	42.0
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°	3701.4	3701.4	3701.4	3701.4	3701.4	3701.4	3701.4	3701.4	3701.4	3701.4	3701.4
2.5°	3728.9	3719.2	3767.7	3804.9	3821.0	3837.2	3822.7	3817.8	3817.8	3785.5	3769.3
5°	3769.3	3774.2	3840.4	3871.2	3871.2	3858.2	3819.4	3791.9	3782.2	3740.2	3728.9
7.5°	3845.3	3866.3	3927.8	3926.2	3880.9	3809.7	3712.7	3638.3	3570.4	3541.3	3523.5
10°	3969.8	3997.3	4039.3	3971.4	3845.3	3657.7	3452.4	3290.7	3193.6	3116.0	3116.0
12.5°	4112.1	4138.0	4129.9	3973.0	3712.7	3361.8	3065.9	2879.9	2744.1	2673.0	2673.0
15°	4254.4	4275.4	4188.1	3898.7	3436.2	2968.9	2645.5	2422.3	2304.3	2238.0	2238.0
17.5°	4398.3	4396.7	4212.4	3727.3	3075.6	2533.9	2216.9	2043.9	2003.5	1992.2	1990.6
20°	4537.4	4500.2	4181.6	3441.0	2656.8	2095.7	1895.2	1906.5	1966.3	1992.2	1995.4
22.5°	4694.2	4602.1	4091.1	3075.6	2181.4	1791.7	1804.6	1898.4	1985.7	2024.5	2029.4
25°	4854.3	4689.4	3939.1	2647.1	1783.6	1680.1	1780.4	1885.5	1984.1	2034.2	2039.1
27.5°	4919.0	4689.4	3680.4	2150.7	1571.8	1633.2	1743.2	1845.0	1948.5	2006.7	2018.1
30°	4972.4	4649.0	3318.1	1702.7	1484.4	1587.9	1683.3	1777.1	1879.0	1950.1	1963.1
32.5°	5046.8	4613.4	2879.9	1431.1	1444.0	1544.3	1610.6	1689.8	1782.0	1828.9	1824.0
35°	5134.1	4558.4	2351.2	1301.7	1410.1	1507.1	1554.0	1600.9	1558.8	1557.2	1562.1
37.5°	5258.6	4509.9	1890.3	1243.5	1387.4	1481.2	1520.0	1419.8	1361.5	1337.3	1327.6
40°	5438.1	4490.5	1490.9	1209.5	1384.2	1479.6	1452.1	1296.9	1217.6	1133.5	1131.9
42.5°	5664.5	4475.9	1232.2	1193.4	1395.5	1516.8	1358.3	1216.0	1052.7	1015.5	1012.3
45°	5955.5	4453.3	1102.8	1190.1	1423.0	1545.9	1348.6	1104.4	992.9	976.7	976.7
47.5°	6306.4	4417.7	1044.6	1190.1	1453.7	1532.9	1319.5	1080.2	965.4	983.2	994.5
50°	6709.1	4372.5	1013.9	1186.9	1484.4	1532.9	1258.1	1075.3	958.9	1051.1	1088.3
52.5°	7139.2	4320.7	992.9	1174.0	1505.5	1534.6	1261.3	1091.5	965.4	1067.2	1098.0
55°	7614.6	4312.6	963.8	1146.5	1511.9	1492.5	1269.4	1127.1	975.1	967.0	968.6
57.5°	8214.5	4409.6	942.7	1106.0	1486.1	1406.8	1285.5	1152.9	963.8	965.4	976.7
60°	8841.9	4592.4	960.5	1067.2	1432.7	1326.0	1296.9	1140.0	908.8	882.9	886.1
62.5°	9375.5	4731.4	975.1	1049.5	1355.1	1254.8	1285.5	1110.9	878.0	871.6	886.1
65°	9598.7	4616.6	939.5	1012.3	1241.9	1167.5	1261.3	1073.7	852.2	827.9	829.5
67.5°	9351.3	4078.2	870.0	929.8	1114.1	1055.9	1222.5	1025.2	816.6	787.5	781.0
70°	7988.1	2996.4	750.3	798.8	958.9	924.9	1162.6	962.1	760.0	739.0	724.4
72.5°	6437.4	2121.5	622.6	635.5	751.9	779.4	1059.2	882.9	695.3	635.5	614.5
75°	4480.8	1332.4	519.1	506.1	543.3	595.1	826.3	732.5	599.9	536.9	517.4
77.5°	1927.5	684.0	405.9	399.4	362.2	412.3	633.9	611.2	502.9	430.1	418.8
80°	645.2	396.2	292.7	281.4	240.9	289.4	446.3	488.3	394.6	318.6	299.2
82.5°	323.4	229.6	186.0	168.2	161.7	182.7	263.6	304.0	273.3	219.9	186.0
85°	158.5	131.0	101.9	100.3	84.1	79.2	110.0	129.4	122.9	90.6	85.7
87.5°	58.2	51.7	32.3	25.9	16.2	11.3	6.5	6.5	4.9	4.9	4.9
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)