

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: P643003

Luminaire Tested: GWS-SA6E-722-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643003
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-722-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29020 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

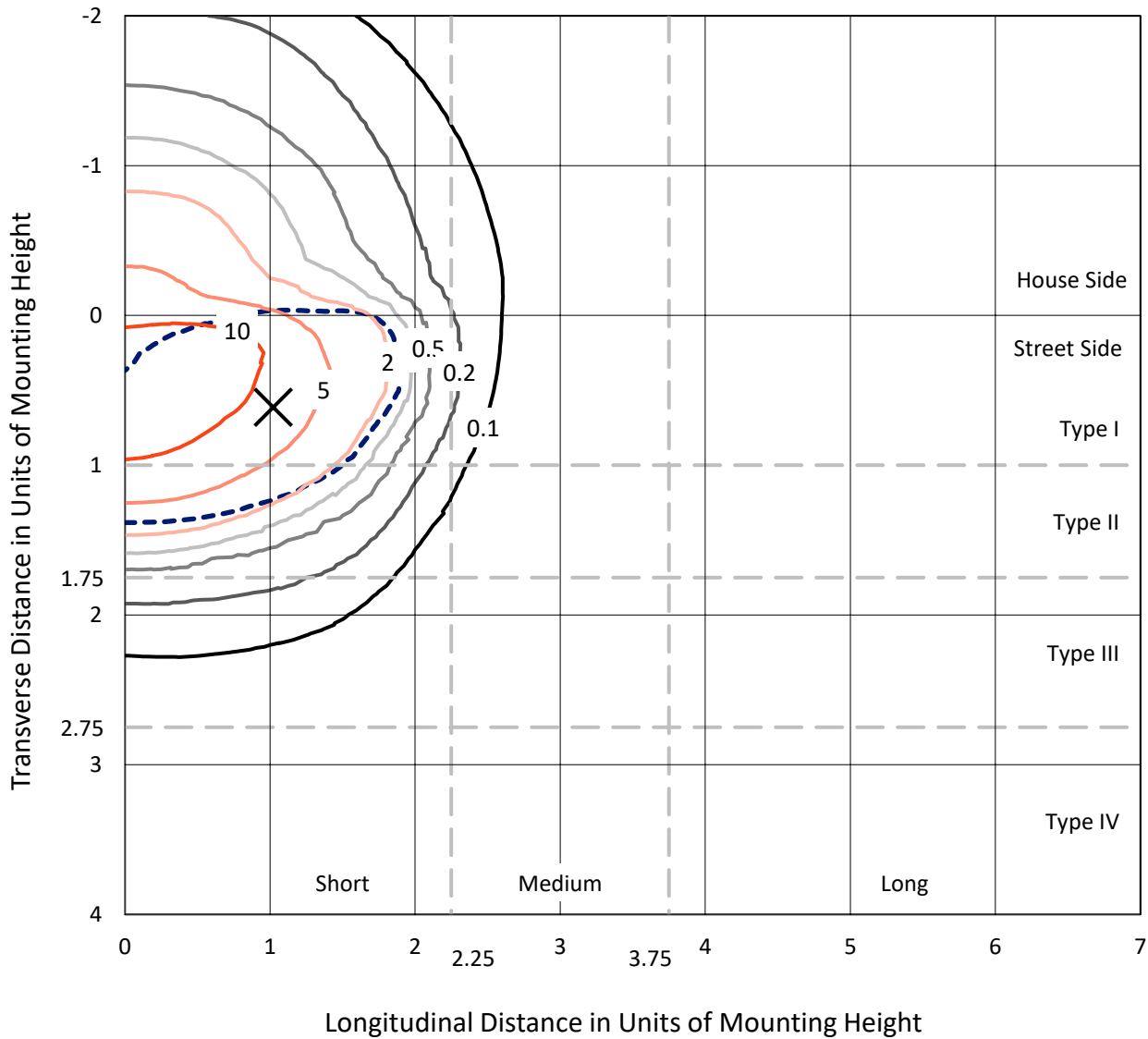
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

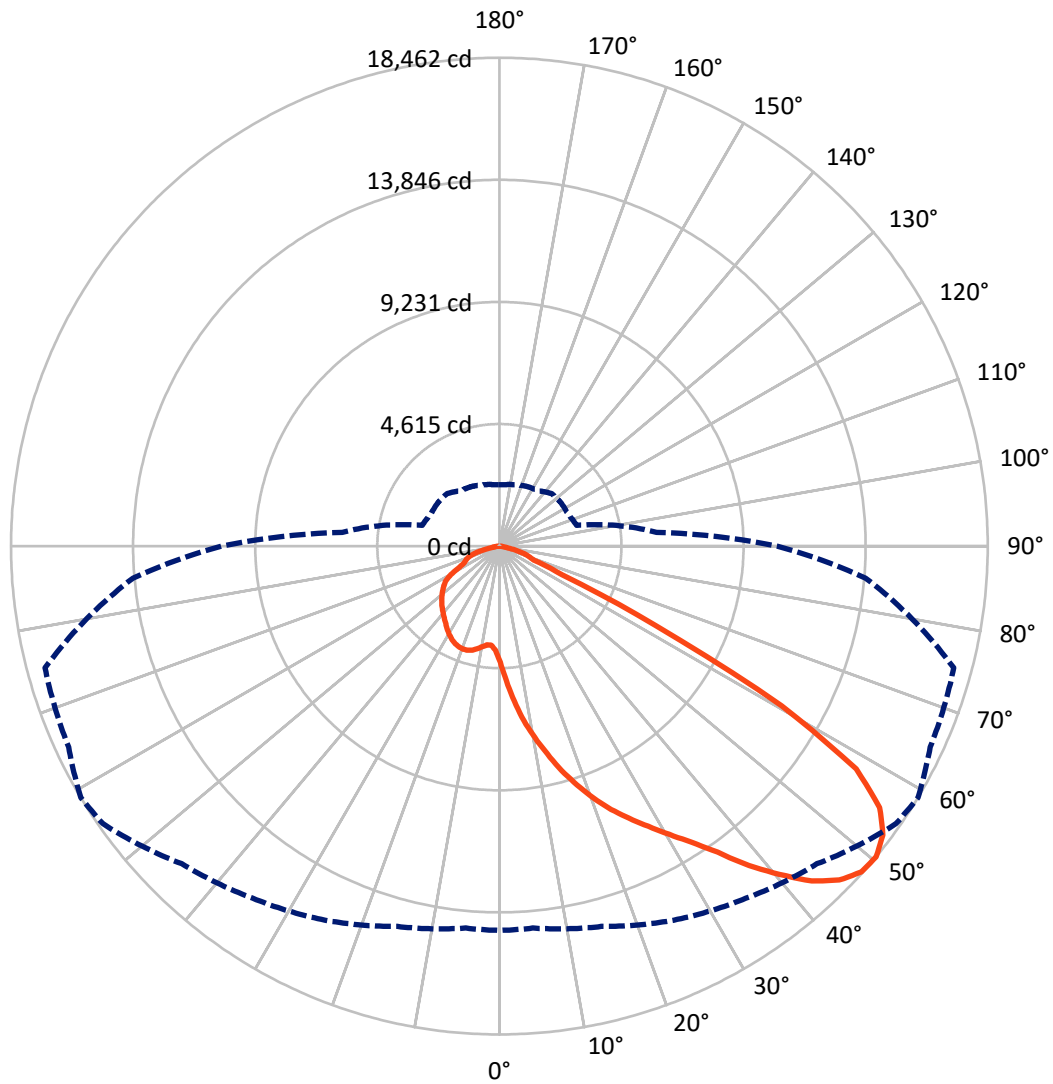
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6675.1	0.0	6675.1
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	22344.9	0.0	22344.9
	% Fixture	77.0	0.0	77.0
Total	Lumens	29020.0	0.0	29020.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.2	1.7
10°-20°	1790.5	6.2
20°-30°	3390.5	11.7
30°-40°	5622.6	19.4
40°-50°	7680.8	26.5
50°-60°	6972.2	24.0
60°-70°	2321.8	8.0
70°-80°	677.2	2.3
80°-90°	71.1	0.2
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°	29020.0	100.0
0°-180°	29020.0	100.0

Coefficient of Utilization



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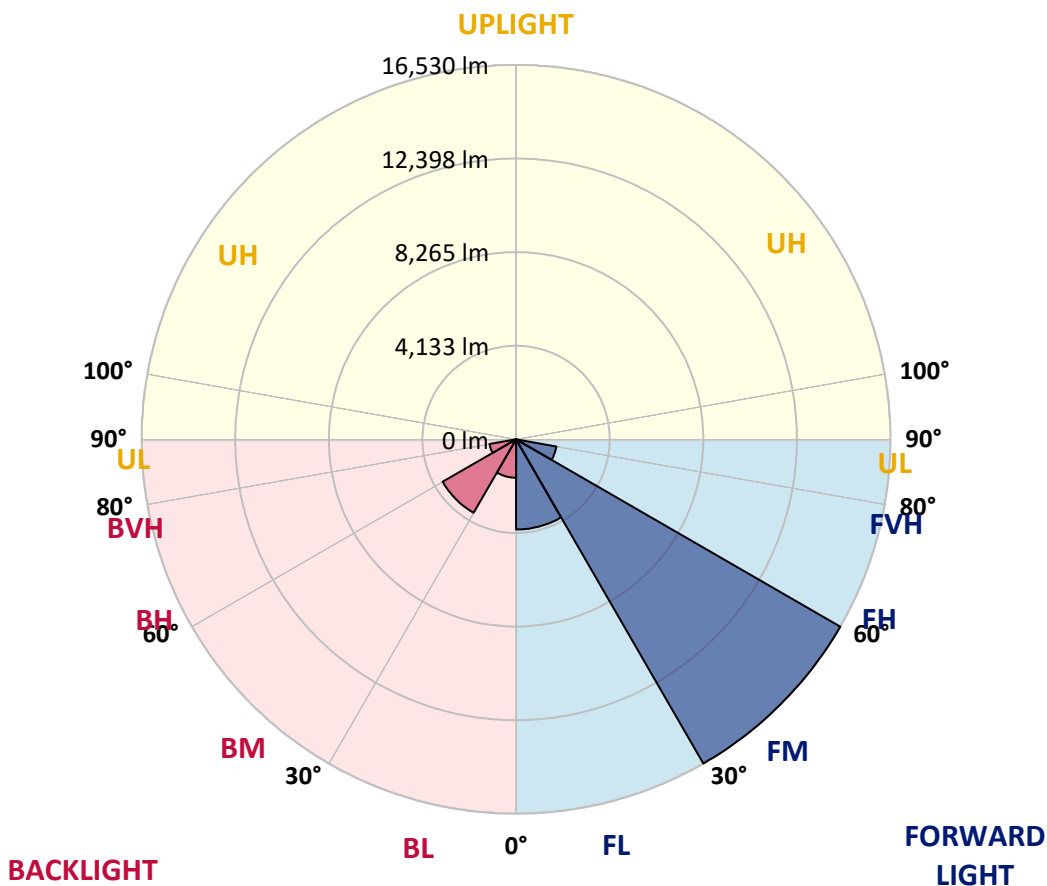
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3979.3	13.7			
FM (30°-60°)	16530.2	57.0			
FH (60°-80°)	1807.5	6.2			G2/5000
FVH (80°-90°)	27.8	0.1			G1/100
BL (0°-30°)	1695.0	5.8	B3/2500		
BM (30°-60°)	3745.4	12.9	B3/5000		
BH (60°-80°)	1191.5	4.1	B3/2500		G3/2500
BVH (80°-90°)	43.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4396.7	4396.7	4396.7	4396.7	4396.7	4396.7	4396.7	4396.7	4396.7	4396.7	4396.7
2.5°	5696.8	5739.4	5673.2	5677.9	5512.5	5436.8	5224.1	5098.8	5016.1	4784.4	4574.0
5°	6845.7	6796.0	6744.0	6713.3	6569.1	6365.8	6101.1	5890.7	5696.8	5243.0	4805.7
7.5°	7550.1	7524.1	7488.6	7469.7	7327.9	7115.1	6850.4	6670.7	6389.4	5774.9	5087.0
10°	8148.1	8117.4	8096.1	8110.3	7994.5	7857.4	7569.0	7363.3	7046.6	6337.4	5427.4
12.5°	8611.5	8628.0	8635.1	8710.7	8661.1	8578.4	8280.5	8063.0	7710.8	6930.8	5826.9
15°	8977.8	8973.1	9055.9	9200.1	9280.4	9228.4	8989.7	8807.7	8377.4	7514.6	6257.1
17.5°	9062.9	9067.7	9197.7	9450.6	9713.0	9840.6	9705.9	9488.4	9062.9	8091.4	6703.8
20°	9131.5	9141.0	9275.7	9564.1	9947.0	10304.0	10325.2	10169.2	9802.8	8715.5	7157.7
22.5°	9564.1	9585.4	9620.8	9802.8	10147.9	10599.4	10847.6	10814.6	10507.3	9370.2	7647.0
25°	10701.1	10637.3	10464.7	10412.7	10545.1	10911.5	11334.6	11398.4	11247.1	10091.2	8174.1
27.5°	12105.2	12036.7	11781.4	11511.9	11225.9	11353.5	11805.0	11996.5	11998.8	10885.5	8703.6
30°	13379.3	13324.9	13116.9	12731.6	12237.6	12053.2	12386.5	12644.2	12797.8	11802.6	9306.4
32.5°	14469.0	14419.4	14138.1	13823.7	13341.5	12970.4	13090.9	13339.1	13698.4	12989.3	10055.8
35°	15386.2	15336.6	15067.1	14750.3	14303.6	14081.4	14038.8	14209.0	14674.7	14227.9	10916.2
37.5°	16130.8	16081.2	15799.9	15502.0	15161.6	15175.8	15239.7	15322.4	15589.5	15554.0	11835.7
40°	16613.0	16561.0	16360.1	16147.4	15932.3	16102.5	16419.2	16319.9	16461.8	16624.9	12682.0
42.5°	16828.1	16762.0	16646.1	16598.9	16532.7	16797.4	17407.3	17308.0	17137.8	17338.7	13310.8
45°	16613.0	16556.3	16553.9	16698.1	16851.8	17192.2	18090.4	18010.1	17579.8	17683.9	13686.6
47.5°	15953.5	15903.9	16038.6	16416.8	16795.1	17291.5	18395.4	18409.6	17894.2	17828.1	13930.1
50°	14528.1	14495.0	14885.1	15601.3	16253.7	16981.8	18298.5	18461.6	17969.9	17783.1	13899.4
52.5°	11630.1	11783.7	12632.3	13828.4	15095.5	16438.1	17939.2	18151.9	17605.9	17487.7	13733.9
55°	7961.4	8032.3	8880.9	10627.8	12637.1	15260.9	17114.2	17442.7	17175.6	17438.0	13906.4
57.5°	4122.5	4179.3	4848.2	6398.9	8571.3	12060.3	14823.6	15901.5	16308.1	17688.6	14443.0
60°	1692.5	1739.8	2016.4	2765.7	4323.5	7023.0	10668.0	12265.9	13220.9	16154.5	12826.2
62.5°	1229.2	1252.8	1385.2	1650.0	2264.6	3441.7	6037.2	6625.8	7297.2	10124.3	8143.4
65°	1035.4	1061.4	1167.7	1328.5	1652.3	2110.9	2578.9	2593.1	2857.9	4124.9	3018.6
67.5°	867.5	891.2	985.7	1122.8	1335.6	1498.7	1385.2	1387.6	1382.8	1496.3	1446.7
70°	676.1	695.0	789.5	936.1	1047.2	962.1	1082.6	1198.5	1148.8	1193.7	1262.3
72.5°	494.0	515.3	598.1	709.2	680.8	685.5	877.0	995.2	966.8	1016.4	1080.3
75°	356.9	371.1	413.7	354.6	373.5	451.5	617.0	680.8	709.2	751.7	808.4
77.5°	115.8	115.8	130.0	163.1	203.3	250.6	314.4	340.4	382.9	430.2	470.4
80°	59.1	61.5	73.3	89.8	113.5	144.2	184.4	196.2	217.5	243.5	260.0
82.5°	28.4	30.7	35.5	44.9	59.1	75.6	101.6	113.5	127.6	144.2	156.0
85°	7.1	7.1	9.5	14.2	18.9	28.4	37.8	44.9	56.7	68.6	75.6
87.5°	0.0	0.0	0.0	0.0	0.0	2.4	7.1	9.5	11.8	14.2	18.9
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°	4396.7	4396.7	4396.7	4396.7	4396.7	4396.7	4396.7	4396.7	4396.7	4396.7	4396.7
2.5°	4479.5	4347.1	4176.9	4032.7	3900.3	3798.7	3711.2	3668.7	3628.5	3600.1	3609.6
5°	4602.4	4375.5	4058.7	3838.9	3704.1	3635.6	3588.3	3564.7	3559.9	3541.0	3533.9
7.5°	4782.0	4458.2	4035.1	3812.9	3723.0	3687.6	3661.6	3647.4	3654.5	3635.6	3628.5
10°	5004.2	4595.3	4094.2	3898.0	3820.0	3794.0	3765.6	3746.7	3737.2	3708.9	3704.1
12.5°	5280.8	4765.5	4200.5	4006.7	3928.7	3883.8	3846.0	3812.9	3791.6	3756.1	3746.7
15°	5578.7	4954.6	4325.8	4113.1	4020.9	3954.7	3893.2	3843.6	3805.8	3758.5	3751.4
17.5°	5902.5	5153.2	4429.8	4186.4	4068.2	3980.7	3890.9	3817.6	3765.6	3704.1	3697.0
20°	6240.5	5354.1	4507.8	4221.8	4070.5	3952.3	3831.8	3734.9	3668.7	3607.2	3602.5
22.5°	6590.4	5538.5	4555.1	4212.4	4032.7	3886.1	3742.0	3633.2	3555.2	3481.9	3477.2
25°	6942.6	5715.8	4566.9	4174.5	3957.1	3786.9	3642.7	3515.0	3427.6	3344.8	3335.4
27.5°	7299.5	5864.7	4538.6	4098.9	3855.4	3671.0	3526.8	3401.6	3311.7	3229.0	3214.8
30°	7680.1	5992.3	4477.1	3999.6	3737.2	3548.1	3406.3	3311.7	3226.6	3143.9	3129.7
32.5°	8086.7	6103.4	4389.6	3879.1	3600.1	3425.2	3321.2	3236.1	3151.0	3077.7	3063.5
35°	8571.3	6176.7	4259.6	3723.0	3472.5	3335.4	3264.5	3165.2	3061.2	2980.8	2973.7
37.5°	9072.4	6233.4	4103.6	3574.1	3361.4	3283.4	3224.3	3089.5	2959.5	2862.6	2850.8
40°	9557.0	6280.7	3909.8	3434.7	3259.7	3245.5	3165.2	2997.3	2772.8	2664.0	2654.6
42.5°	10008.5	6294.9	3706.5	3285.7	3167.5	3160.4	3070.6	2810.6	2638.0	2569.5	2560.0
45°	10318.1	6283.1	3496.1	3146.3	3075.4	3037.5	2943.0	2675.9	2569.5	2508.0	2496.2
47.5°	10547.4	6221.6	3259.7	2999.7	2971.3	2919.3	2716.0	2590.8	2491.5	2430.0	2418.2
50°	10507.3	5966.3	3021.0	2857.9	2846.1	2801.1	2550.6	2484.4	2396.9	2330.7	2321.3
52.5°	10299.2	5481.7	2777.5	2701.9	2725.5	2638.0	2432.4	2356.7	2281.1	2205.5	2188.9
55°	10351.2	5131.9	2593.1	2550.6	2593.1	2394.6	2300.0	2219.6	2148.7	2075.4	2061.3
57.5°	10578.2	4786.8	2396.9	2387.5	2432.4	2207.8	2129.8	2028.2	1926.5	1867.4	1867.4
60°	8883.3	3489.0	2051.8	2075.4	2177.1	2056.5	1988.0	1884.0	1772.9	1720.9	1720.9
62.5°	5252.4	2188.9	1702.0	1676.0	1739.8	1815.4	1853.2	1768.1	1635.8	1567.2	1569.6
65°	2314.2	1593.2	1501.0	1479.8	1460.9	1512.9	1616.9	1624.0	1484.5	1404.1	1406.5
67.5°	1425.4	1441.9	1404.1	1387.6	1371.0	1361.6	1352.1	1356.8	1319.0	1245.7	1243.4
70°	1285.9	1330.8	1304.8	1290.7	1269.4	1252.8	1196.1	1103.9	1040.1	1021.2	1042.5
72.5°	1106.3	1167.7	1153.6	1146.5	1120.5	1080.3	1004.6	914.8	839.2	791.9	801.3
75°	834.4	884.1	891.2	893.5	865.2	827.3	749.3	673.7	607.5	557.9	569.7
77.5°	479.9	508.2	515.3	522.4	501.1	487.0	434.9	380.6	345.1	293.1	307.3
80°	267.1	278.9	278.9	281.3	269.5	252.9	217.5	186.7	170.2	146.6	148.9
82.5°	160.7	165.5	167.8	170.2	163.1	146.6	120.6	99.3	89.8	78.0	75.6
85°	78.0	82.7	82.7	85.1	73.3	63.8	49.6	37.8	33.1	23.6	26.0
87.5°	18.9	21.3	21.3	18.9	16.5	11.8	7.1	2.4	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)