

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: P641740

Luminaire Tested: GWS-SA6B-740-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641740
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6B-740-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21589.2 lumens
Efficiency: N/A
Efficacy: 155.4 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): 138.9
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

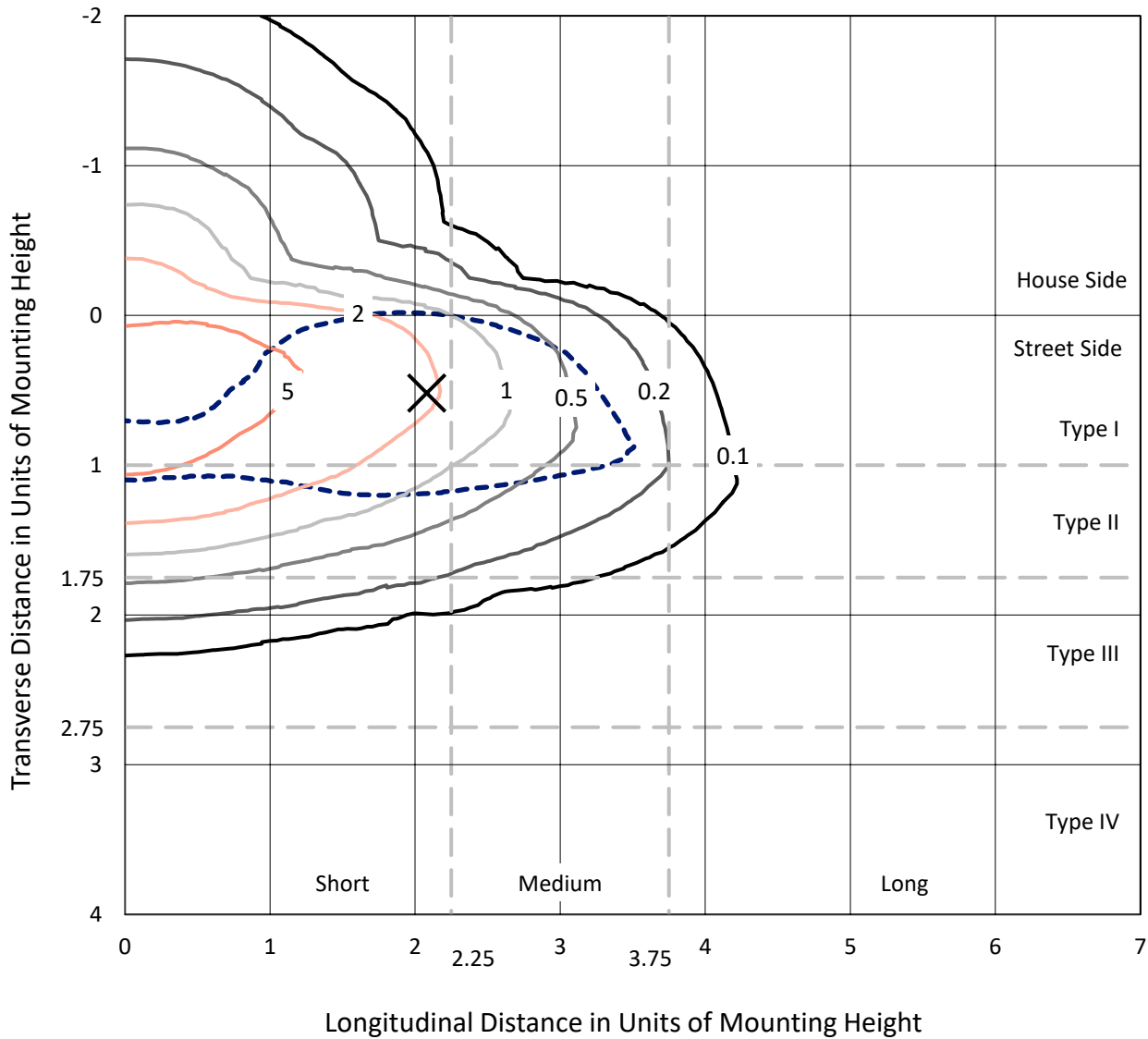


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Iso-Footcandle Lines of Horizontal Illumination

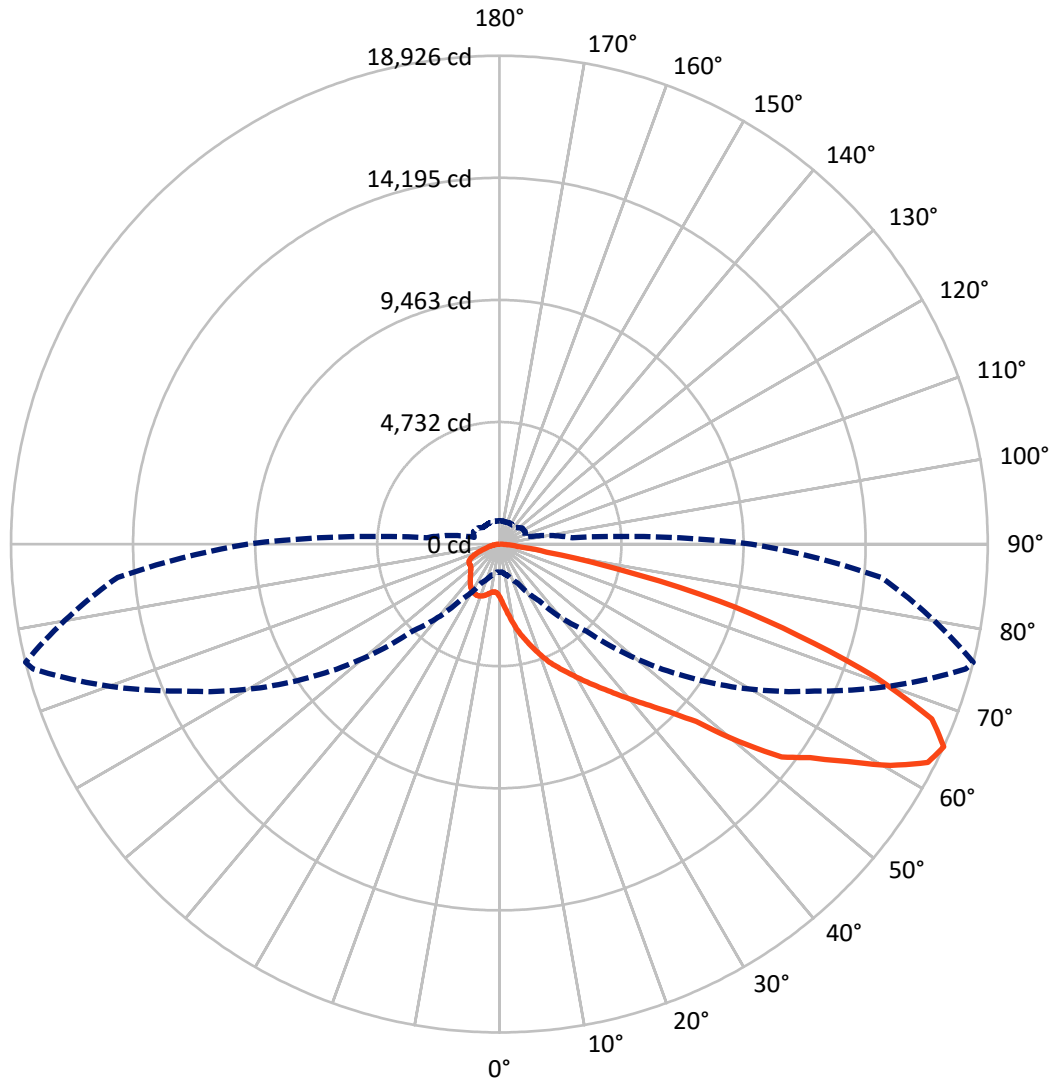
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3608.6	0.0	3608.6
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	17980.5	0.0	17980.5
	% Fixture	83.3	0.0	83.3
Total	Lumens	21589.2	0.0	21589.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.9	1.1
10°-20°	925.1	4.3
20°-30°	1803.0	8.4
30°-40°	3015.3	14.0
40°-50°	4317.4	20.0
50°-60°	5111.2	23.7
60°-70°	4250.0	19.7
70°-80°	1739.2	8.1
80°-90°	185.2	0.9
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°	21589.2	100.0
0°-180°	21589.2	100.0

Coefficient of Utilization



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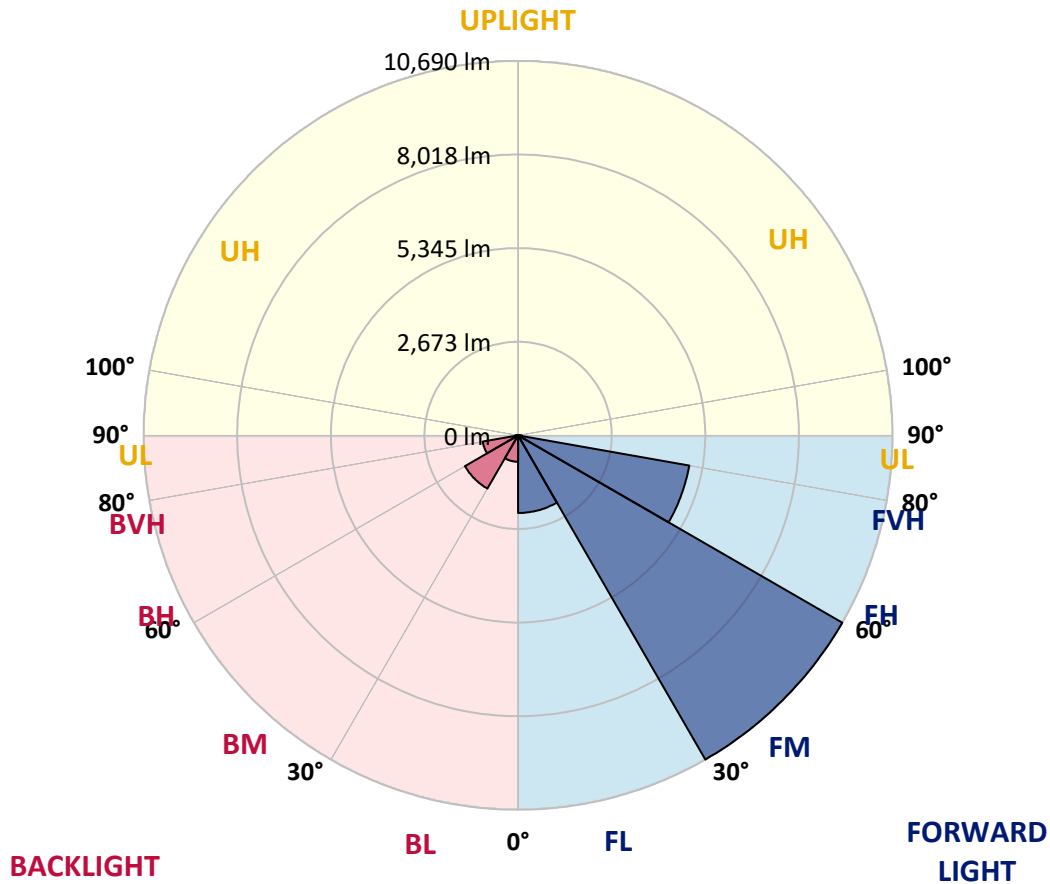
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2216.0	10.3			
FM (30°-60°)	10690.2	49.5			
FH (60°-80°)	4963.9	23.0			G2/5000
FVH (80°-90°)	110.4	0.5			G2/225
BL (0°-30°)	754.9	3.5	B2/1000		
BM (30°-60°)	1753.7	8.1	B2/2500		
BH (60°-80°)	1025.3	4.7	B3/2500		G3/2500
BVH (80°-90°)	74.7	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2044.4	2044.4	2044.4	2044.4	2044.4	2044.4	2044.4	2044.4	2044.4	2044.4	2044.4
2.5°	2865.5	2876.1	2841.2	2829.1	2747.1	2636.3	2543.8	2404.1	2275.1	2255.4	2140.0
5°	3639.6	3594.0	3554.6	3528.8	3415.0	3289.0	3093.2	2830.6	2555.9	2522.5	2273.6
7.5°	4099.5	4091.9	4043.3	4028.1	3940.1	3814.1	3612.3	3285.9	2886.8	2832.1	2454.2
10°	4468.3	4463.7	4439.4	4453.1	4372.7	4249.7	4053.9	3717.0	3249.5	3194.9	2656.1
12.5°	4790.0	4797.6	4793.1	4843.2	4802.2	4706.6	4503.2	4132.8	3612.3	3553.1	2901.9
15°	5025.3	5031.4	5054.1	5163.4	5186.2	5166.4	4960.0	4541.1	3970.4	3885.5	3155.4
17.5°	5092.1	5104.2	5158.9	5334.9	5457.9	5539.8	5386.5	4957.0	4322.6	4230.0	3413.4
20°	5181.6	5195.3	5249.9	5433.6	5614.2	5800.9	5773.5	5378.9	4677.7	4601.8	3674.5
22.5°	5596.0	5585.3	5561.1	5649.1	5778.1	6010.3	6078.6	5784.2	5045.0	4972.2	3962.9
25°	6394.3	6374.6	6219.8	6139.3	6096.8	6238.0	6359.4	6153.0	5403.2	5293.9	4231.5
27.5°	7274.6	7264.0	7066.7	6875.4	6614.4	6553.7	6625.0	6474.7	5750.8	5640.0	4465.2
30°	8107.9	8076.0	7869.6	7629.8	7280.7	7019.6	6914.9	6790.4	6131.7	6016.4	4738.4
32.5°	8853.1	8812.1	8569.3	8303.6	7937.9	7629.8	7317.1	7125.9	6562.8	6429.2	5017.7
35°	9464.7	9423.7	9174.8	8892.5	8490.3	8262.7	7834.7	7490.1	7001.4	6866.3	5347.1
37.5°	9938.3	9900.3	9640.8	9363.0	9012.4	8831.8	8460.0	7899.9	7506.8	7365.7	5696.1
40°	10203.9	10176.6	9968.6	9748.5	9454.1	9297.8	9130.8	8417.5	8072.9	7931.8	6107.5
42.5°	10284.3	10266.1	10120.4	10006.6	9807.7	9689.4	9785.0	9026.1	8677.0	8554.1	6570.4
45°	10082.5	10082.5	10040.0	10097.6	10106.7	10105.2	10440.6	9713.6	9419.2	9284.1	7223.0
47.5°	9566.4	9599.8	9662.0	9945.9	10244.9	10495.3	11207.1	10630.4	10373.9	10263.1	8147.3
50°	8622.4	8713.4	8925.9	9479.9	10115.8	10753.3	11932.6	11985.7	12230.1	12034.3	9507.2
52.5°	7239.7	7226.0	7767.9	8557.1	9527.0	10763.9	12331.8	13181.7	13838.9	13703.8	10518.0
55°	5753.8	5731.0	6236.5	7324.7	8623.9	10357.2	12571.6	13729.6	14731.3	14609.9	11427.2
57.5°	4406.0	4377.2	4826.5	5808.5	7349.0	9493.6	12526.0	14382.3	15959.2	15897.0	12662.6
60°	3032.5	2997.6	3418.0	4277.0	5840.3	8173.1	12022.1	14717.7	17396.5	17417.8	13984.6
62.5°	1821.3	1801.6	2106.6	2772.9	4201.1	6537.0	10842.8	14514.3	18540.9	18636.5	14834.5
65°	1098.9	1085.2	1264.3	1654.4	2665.2	4770.3	9024.6	13474.6	18706.3	18926.4	14854.3
67.5°	799.9	801.4	853.0	1007.8	1554.2	3081.0	6772.2	11610.8	17844.3	18071.9	13917.8
70°	695.1	698.2	725.5	760.4	939.5	1763.6	4403.0	9165.7	15295.9	15472.0	11673.1
72.5°	617.7	617.7	635.9	654.2	734.6	1074.6	2358.6	6406.4	12072.2	12119.3	8909.2
75°	543.4	538.8	547.9	557.0	637.5	751.3	1147.4	4463.7	8916.8	8807.5	5758.4
77.5°	432.6	428.0	429.5	438.6	511.5	537.3	581.3	2788.1	5025.3	4743.0	2543.8
80°	308.1	305.1	321.8	344.5	377.9	329.4	364.3	1349.3	1992.8	1854.7	986.5
82.5°	183.6	189.7	215.5	233.7	261.1	206.4	235.3	450.8	705.8	687.5	400.7
85°	25.8	27.3	77.4	89.5	112.3	80.4	124.5	203.4	282.3	302.0	141.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	10.6	36.4	80.4	82.0	34.9
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°	2044.4	2044.4	2044.4	2044.4	2044.4	2044.4	2044.4	2044.4	2044.4	2044.4	2044.4
2.5°	2080.8	2009.5	1907.8	1822.8	1751.5	1693.8	1645.2	1608.8	1598.2	1583.0	1583.0
5°	2156.7	2027.7	1845.6	1716.6	1642.2	1598.2	1567.8	1552.7	1545.1	1536.0	1531.4
7.5°	2261.5	2080.8	1835.0	1704.4	1646.8	1619.4	1599.7	1590.6	1584.5	1575.4	1575.4
10°	2405.6	2159.8	1868.4	1746.9	1701.4	1674.1	1651.3	1636.1	1622.5	1608.8	1605.8
12.5°	2562.0	2263.0	1929.1	1804.6	1756.0	1722.7	1690.8	1668.0	1651.3	1634.6	1630.1
15°	2735.0	2369.2	1994.3	1860.8	1800.1	1754.5	1716.6	1681.7	1658.9	1634.6	1631.6
17.5°	2905.0	2477.0	2049.0	1898.7	1821.3	1765.2	1710.5	1665.0	1636.1	1608.8	1601.2
20°	3108.4	2584.7	2086.9	1909.3	1816.8	1742.4	1677.1	1619.4	1587.6	1555.7	1551.1
22.5°	3295.0	2684.9	2105.1	1894.2	1781.8	1693.8	1617.9	1555.7	1520.8	1488.9	1482.8
25°	3475.7	2772.9	2097.5	1857.7	1728.7	1627.0	1548.1	1485.9	1452.5	1419.1	1410.0
27.5°	3650.2	2832.1	2067.2	1801.6	1661.9	1552.7	1476.8	1420.6	1391.8	1362.9	1350.8
30°	3821.7	2886.8	2020.1	1728.7	1576.9	1475.3	1413.0	1373.6	1344.7	1314.4	1305.3
32.5°	3994.7	2926.2	1948.8	1643.7	1490.4	1407.0	1369.0	1340.2	1309.8	1279.5	1270.4
35°	4169.3	2942.9	1862.3	1546.6	1417.6	1362.9	1349.3	1315.9	1274.9	1238.5	1226.3
37.5°	4377.2	2958.1	1754.5	1451.0	1353.8	1341.7	1338.7	1288.6	1240.0	1189.9	1176.3
40°	4627.6	2977.8	1643.7	1364.5	1302.2	1334.1	1322.0	1253.7	1156.5	1108.0	1092.8
42.5°	4934.2	3014.3	1528.4	1285.5	1264.3	1305.3	1291.6	1168.7	1103.4	1076.1	1068.5
45°	5385.0	3147.8	1413.0	1223.3	1235.5	1264.3	1243.0	1118.6	1092.8	1074.6	1065.5
47.5°	6187.9	3352.7	1312.9	1176.3	1212.7	1227.9	1145.9	1104.9	1085.2	1060.9	1050.3
50°	7022.7	3442.3	1232.4	1147.4	1186.9	1194.5	1092.8	1086.7	1073.1	1047.3	1036.6
52.5°	7587.3	3430.1	1183.8	1136.8	1165.6	1136.8	1068.5	1067.0	1057.9	1027.5	1015.4
55°	8224.7	3451.4	1162.6	1139.8	1156.5	1039.7	1038.1	1042.7	1038.1	1004.8	998.7
57.5°	9085.3	3516.6	1152.0	1150.5	1150.5	992.6	1009.3	1015.4	1006.3	991.1	986.5
60°	9912.5	3521.2	1132.2	1162.6	1145.9	963.8	975.9	982.0	971.4	968.3	966.8
62.5°	10223.6	3302.6	1088.2	1153.5	1127.7	931.9	941.0	944.0	933.4	941.0	939.5
65°	9760.7	2838.2	1015.4	1109.5	1071.5	903.1	897.0	904.6	886.4	906.1	907.6
67.5°	8666.4	2255.4	904.6	1026.0	992.6	871.2	859.0	859.0	828.7	859.0	857.5
70°	6987.7	1593.6	742.2	892.4	906.1	833.2	827.2	792.3	743.7	789.2	784.7
72.5°	5297.0	1144.4	584.3	705.8	780.1	780.1	781.6	722.5	666.3	687.5	669.3
75°	3355.8	805.9	467.5	540.3	611.7	684.5	719.4	610.1	560.1	550.9	541.8
77.5°	1511.7	529.7	364.3	414.3	434.1	540.3	657.2	525.1	456.8	437.1	431.0
80°	632.9	329.4	259.5	292.9	267.1	453.8	579.8	408.3	335.4	308.1	288.4
82.5°	277.7	195.8	165.4	157.8	167.0	336.9	432.6	271.7	209.5	283.8	286.9
85°	116.9	103.2	85.0	77.4	68.3	129.0	203.4	106.2	130.5	74.4	60.7
87.5°	27.3	30.4	22.8	15.2	9.1	1.5	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)