

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: P641685

Luminaire Tested: GWS-SA6B-735-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641685
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-735-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21293.3 lumens
Efficiency: N/A
Efficacy: 153.3 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

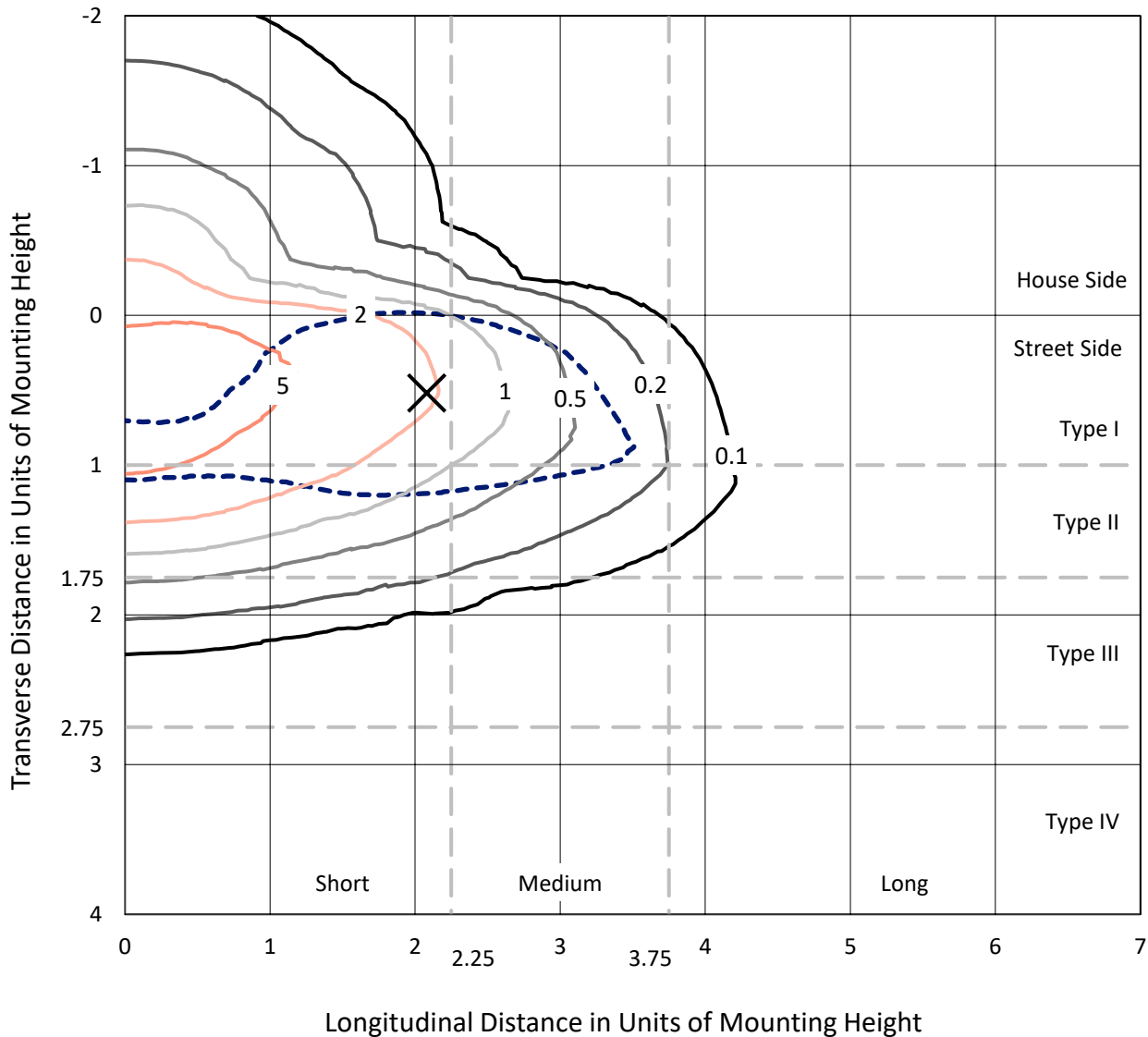


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Iso-Footcandle Lines of Horizontal Illumination

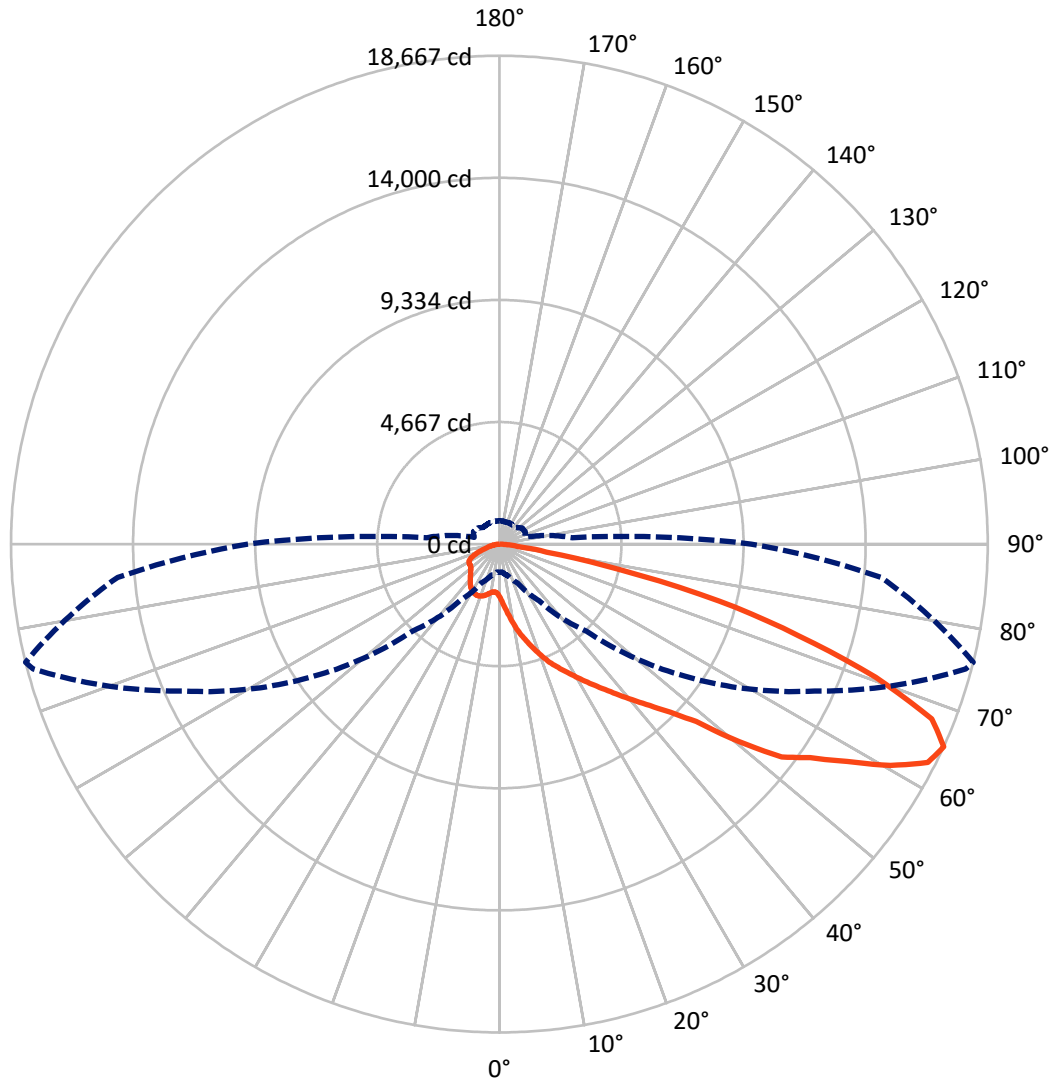
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	3559.2	0.0	3559.2
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	17734.1	0.0	17734.1
	% Fixture	83.3	0.0	83.3
Total	Lumens	21293.3	0.0	21293.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.6	1.1
10°-20°	912.5	4.3
20°-30°	1778.2	8.4
30°-40°	2974.0	14.0
40°-50°	4258.2	20.0
50°-60°	5041.1	23.7
60°-70°	4191.7	19.7
70°-80°	1715.4	8.1
80°-90°	182.6	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°	21293.3	100.0
0°-180°	21293.3	100.0

Coefficient of Utilization



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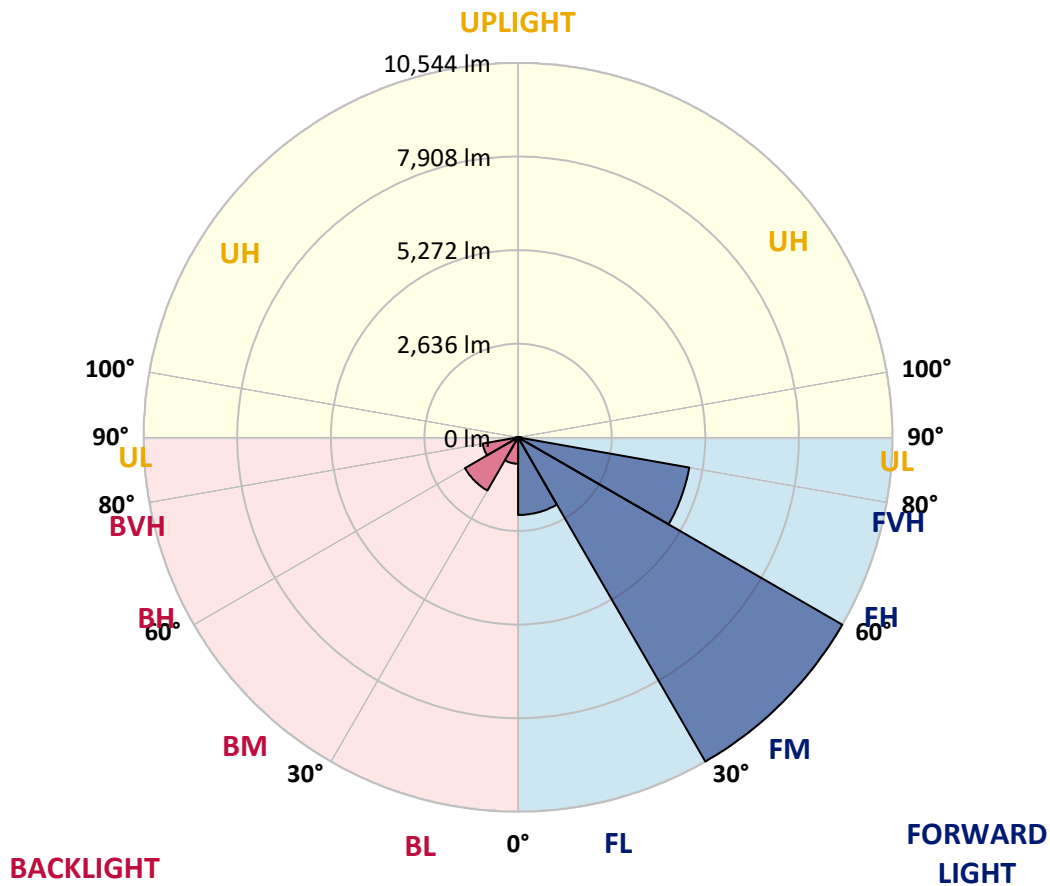
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2185.7	10.3			
FM (30°-60°)	10543.6	49.5			
FH (60°-80°)	4895.9	23.0			G2/5000
FVH (80°-90°)	108.9	0.5			G2/225
BL (0°-30°)	744.6	3.5	B2/1000		
BM (30°-60°)	1729.7	8.1	B2/2500		
BH (60°-80°)	1011.2	4.7	B3/2500		G3/2500
BVH (80°-90°)	73.7	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°	2016.4	2016.4	2016.4	2016.4	2016.4	2016.4	2016.4	2016.4	2016.4	2016.4	2016.4
2.5°	2826.2	2836.7	2802.3	2790.3	2709.5	2600.2	2508.9	2371.2	2243.9	2224.5	2110.7
5°	3589.7	3544.8	3505.9	3480.4	3368.1	3243.9	3050.8	2791.8	2520.9	2487.9	2242.4
7.5°	4043.3	4035.8	3987.9	3972.9	3886.1	3761.8	3562.8	3240.9	2847.2	2793.3	2420.6
10°	4407.0	4402.5	4378.6	4392.1	4312.7	4191.5	3998.4	3666.0	3205.0	3151.1	2619.7
12.5°	4724.4	4731.9	4727.4	4776.8	4736.4	4642.1	4441.5	4076.2	3562.8	3504.4	2862.2
15°	4956.4	4962.4	4984.9	5092.6	5115.1	5095.6	4892.0	4478.9	3916.0	3832.2	3112.2
17.5°	5022.3	5034.3	5088.1	5261.8	5383.0	5463.9	5312.7	4889.1	4263.3	4172.0	3366.6
20°	5110.6	5124.1	5178.0	5359.1	5537.2	5721.4	5694.4	5305.2	4613.6	4538.8	3624.1
22.5°	5519.3	5508.8	5484.8	5571.7	5698.9	5927.9	5995.3	5704.9	4975.9	4904.0	3908.5
25°	6306.7	6287.2	6134.5	6055.2	6013.3	6152.5	6272.2	6068.7	5329.2	5221.4	4173.5
27.5°	7174.9	7164.4	6969.8	6781.2	6523.7	6463.8	6534.2	6386.0	5672.0	5562.7	4404.0
30°	7996.7	7965.3	7761.7	7525.2	7180.9	6923.4	6820.1	6697.4	6047.7	5933.9	4673.5
32.5°	8731.7	8691.3	8451.8	8189.8	7829.1	7525.2	7216.8	7028.2	6472.8	6341.1	4948.9
35°	9335.0	9294.6	9049.1	8770.7	8374.0	8149.4	7727.3	7387.5	6905.4	6772.2	5273.8
37.5°	9802.1	9764.6	9508.7	9234.7	8888.9	8710.8	8344.0	7791.6	7403.9	7264.7	5618.1
40°	10064.0	10037.1	9832.0	9614.9	9324.5	9170.3	9005.7	8302.1	7962.3	7823.1	6023.7
42.5°	10143.4	10125.4	9981.7	9869.4	9673.3	9556.6	9650.9	8902.4	8558.1	8436.8	6480.3
45°	9944.3	9944.3	9902.3	9959.2	9968.2	9966.7	10297.5	9580.5	9290.1	9156.9	7124.0
47.5°	9435.3	9468.2	9529.6	9809.5	10104.4	10351.4	11053.5	10484.7	10231.7	10122.4	8035.6
50°	8504.2	8594.0	8803.6	9350.0	9977.2	10605.9	11769.1	11821.4	12062.5	11869.3	9376.9
52.5°	7140.5	7127.0	7661.4	8439.8	9396.4	10616.4	12162.7	13001.0	13649.2	13516.0	10373.9
55°	5675.0	5652.5	6151.0	7224.3	8505.7	10215.2	12399.3	13541.4	14529.4	14409.7	11270.6
57.5°	4345.7	4317.2	4760.3	5728.8	7248.3	9363.4	12354.4	14185.1	15740.5	15679.1	12489.1
60°	2990.9	2956.5	3371.1	4218.4	5760.3	8061.1	11857.4	14516.0	17158.1	17179.0	13792.9
62.5°	1796.3	1776.9	2077.8	2734.9	4143.6	6447.4	10694.2	14315.4	18286.8	18381.1	14631.2
65°	1083.8	1070.3	1247.0	1631.7	2628.7	4704.9	8900.9	13290.0	18450.0	18667.0	14650.7
67.5°	788.9	790.4	841.3	994.0	1532.9	3038.8	6679.4	11451.7	17599.7	17824.2	13727.1
70°	685.6	688.6	715.5	750.0	926.6	1739.5	4342.7	9040.1	15086.3	15259.9	11513.1
72.5°	609.3	609.3	627.2	645.2	724.5	1059.8	2326.3	6318.6	11906.8	11953.2	8787.1
75°	535.9	531.4	540.4	549.4	628.7	741.0	1131.7	4402.5	8794.6	8686.8	5679.4
77.5°	426.6	422.1	423.6	432.6	504.5	529.9	573.3	2749.9	4956.4	4678.0	2508.9
80°	303.9	300.9	317.4	339.8	372.7	324.8	359.3	1330.8	1965.5	1829.3	973.0
82.5°	181.1	187.1	212.6	230.5	257.5	203.6	232.0	444.6	696.1	678.1	395.2
85°	25.4	26.9	76.3	88.3	110.8	79.3	122.8	200.6	278.4	297.9	139.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	10.5	35.9	79.3	80.8	34.4
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°	2016.4	2016.4	2016.4	2016.4	2016.4	2016.4	2016.4	2016.4	2016.4	2016.4	2016.4
2.5°	2052.3	1982.0	1881.7	1797.8	1727.5	1670.6	1622.7	1586.8	1576.3	1561.3	1561.3
5°	2127.2	1999.9	1820.3	1693.1	1619.7	1576.3	1546.4	1531.4	1523.9	1514.9	1510.4
7.5°	2230.5	2052.3	1809.8	1681.1	1624.2	1597.2	1577.8	1568.8	1562.8	1553.8	1553.8
10°	2372.7	2130.2	1842.8	1723.0	1678.1	1651.1	1628.7	1613.7	1600.2	1586.8	1583.8
12.5°	2526.9	2232.0	1902.6	1779.9	1732.0	1699.0	1667.6	1645.2	1628.7	1612.2	1607.7
15°	2697.5	2336.7	1967.0	1835.3	1775.4	1730.5	1693.1	1658.6	1636.2	1612.2	1609.2
17.5°	2865.2	2443.0	2020.9	1872.7	1796.3	1741.0	1687.1	1642.2	1613.7	1586.8	1579.3
20°	3065.8	2549.3	2058.3	1883.2	1791.9	1718.5	1654.1	1597.2	1565.8	1534.4	1529.9
22.5°	3249.9	2648.1	2076.3	1868.2	1757.4	1670.6	1595.8	1534.4	1499.9	1468.5	1462.5
25°	3428.0	2734.9	2068.8	1832.3	1705.0	1604.7	1526.9	1465.5	1432.6	1399.7	1390.7
27.5°	3600.2	2793.3	2038.9	1776.9	1639.2	1531.4	1456.5	1401.1	1372.7	1344.3	1332.3
30°	3769.3	2847.2	1992.4	1705.0	1555.3	1455.0	1393.7	1354.7	1326.3	1296.4	1287.4
32.5°	3940.0	2886.1	1922.1	1621.2	1470.0	1387.7	1350.3	1321.8	1291.9	1261.9	1253.0
35°	4112.1	2902.6	1836.8	1525.4	1398.2	1344.3	1330.8	1297.9	1257.4	1221.5	1209.5
37.5°	4317.2	2917.6	1730.5	1431.1	1335.3	1323.3	1320.3	1270.9	1223.0	1173.6	1160.1
40°	4564.2	2937.0	1621.2	1345.8	1284.4	1315.8	1303.8	1236.5	1140.7	1092.8	1077.8
42.5°	4866.6	2973.0	1507.4	1267.9	1247.0	1287.4	1273.9	1152.7	1088.3	1061.3	1053.9
45°	5311.2	3104.7	1393.7	1206.5	1218.5	1247.0	1226.0	1103.3	1077.8	1059.8	1050.9
47.5°	6103.1	3306.8	1294.9	1160.1	1196.1	1211.0	1130.2	1089.8	1070.3	1046.4	1035.9
50°	6926.4	3395.1	1215.5	1131.7	1170.6	1178.1	1077.8	1071.8	1058.3	1032.9	1022.4
52.5°	7483.3	3383.1	1167.6	1121.2	1149.7	1121.2	1053.9	1052.4	1043.4	1013.4	1001.5
55°	8112.0	3404.1	1146.7	1124.2	1140.7	1025.4	1023.9	1028.4	1023.9	991.0	985.0
57.5°	8960.8	3468.4	1136.2	1134.7	1134.7	979.0	995.5	1001.5	992.5	977.5	973.0
60°	9776.6	3472.9	1116.7	1146.7	1130.2	950.6	962.5	968.5	958.1	955.1	953.6
62.5°	10083.5	3257.4	1073.3	1137.7	1112.2	919.1	928.1	931.1	920.6	928.1	926.6
65°	9626.9	2799.3	1001.5	1094.3	1056.8	890.7	884.7	892.2	874.2	893.7	895.2
67.5°	8547.6	2224.5	892.2	1011.9	979.0	859.3	847.3	847.3	817.3	847.3	845.8
70°	6892.0	1571.8	732.0	880.2	893.7	821.8	815.8	781.4	733.5	778.4	773.9
72.5°	5224.4	1128.7	576.3	696.1	769.4	769.4	770.9	712.6	657.2	678.1	660.2
75°	3309.8	794.9	461.1	532.9	603.3	675.1	709.6	601.8	552.4	543.4	534.4
77.5°	1491.0	522.4	359.3	408.7	428.1	532.9	648.2	517.9	450.6	431.1	425.1
80°	624.2	324.8	256.0	288.9	263.5	447.6	571.8	402.7	330.8	303.9	284.4
82.5°	273.9	193.1	163.2	155.7	164.7	332.3	426.6	268.0	206.6	279.9	282.9
85°	115.3	101.8	83.8	76.3	67.4	127.2	200.6	104.8	128.7	73.4	59.9
87.5°	26.9	29.9	22.5	15.0	9.0	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)