

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: P640035

Luminaire Tested: GWS-SA5D-722-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640035
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-SA5D-722-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22563.4 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

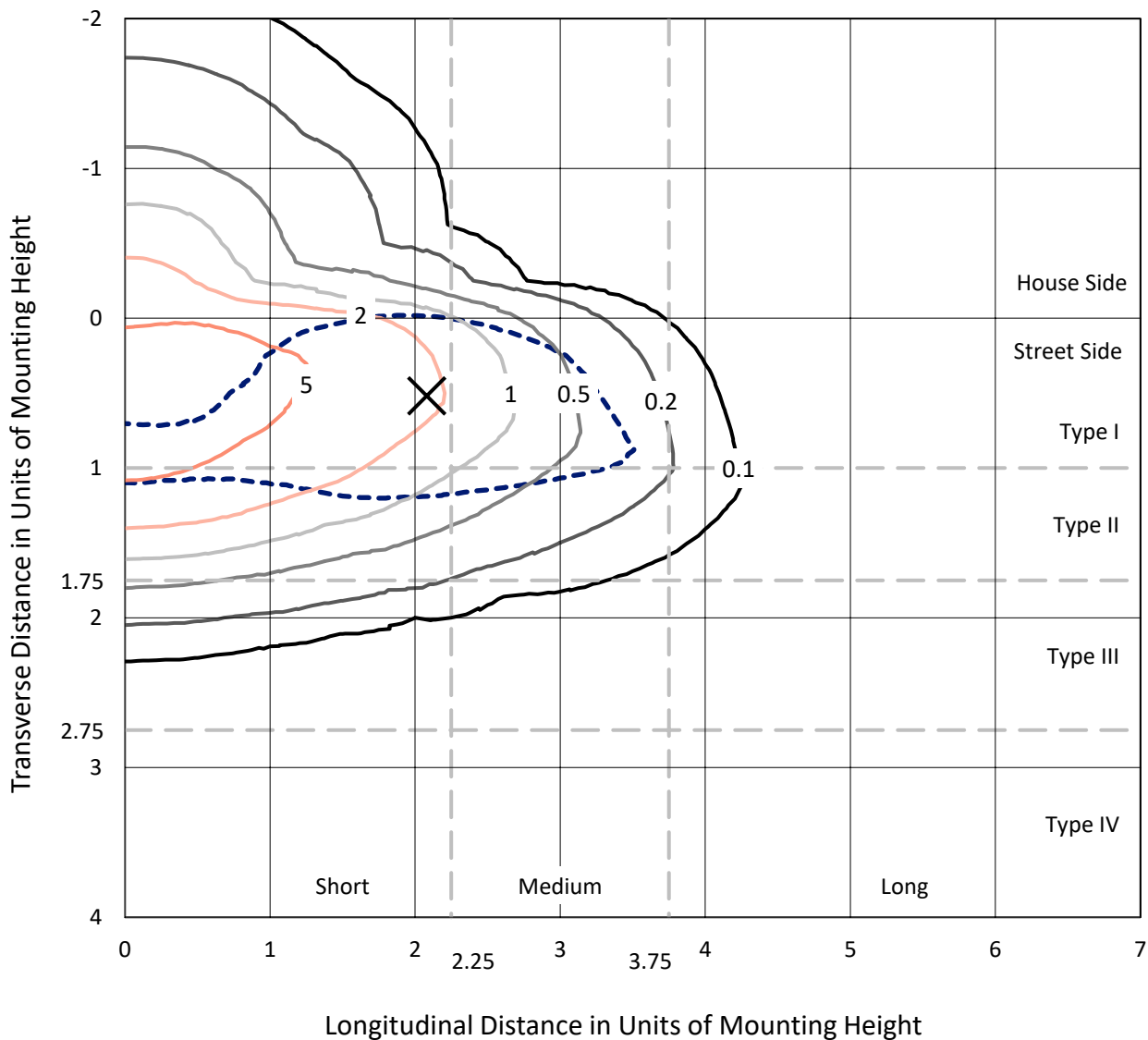
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

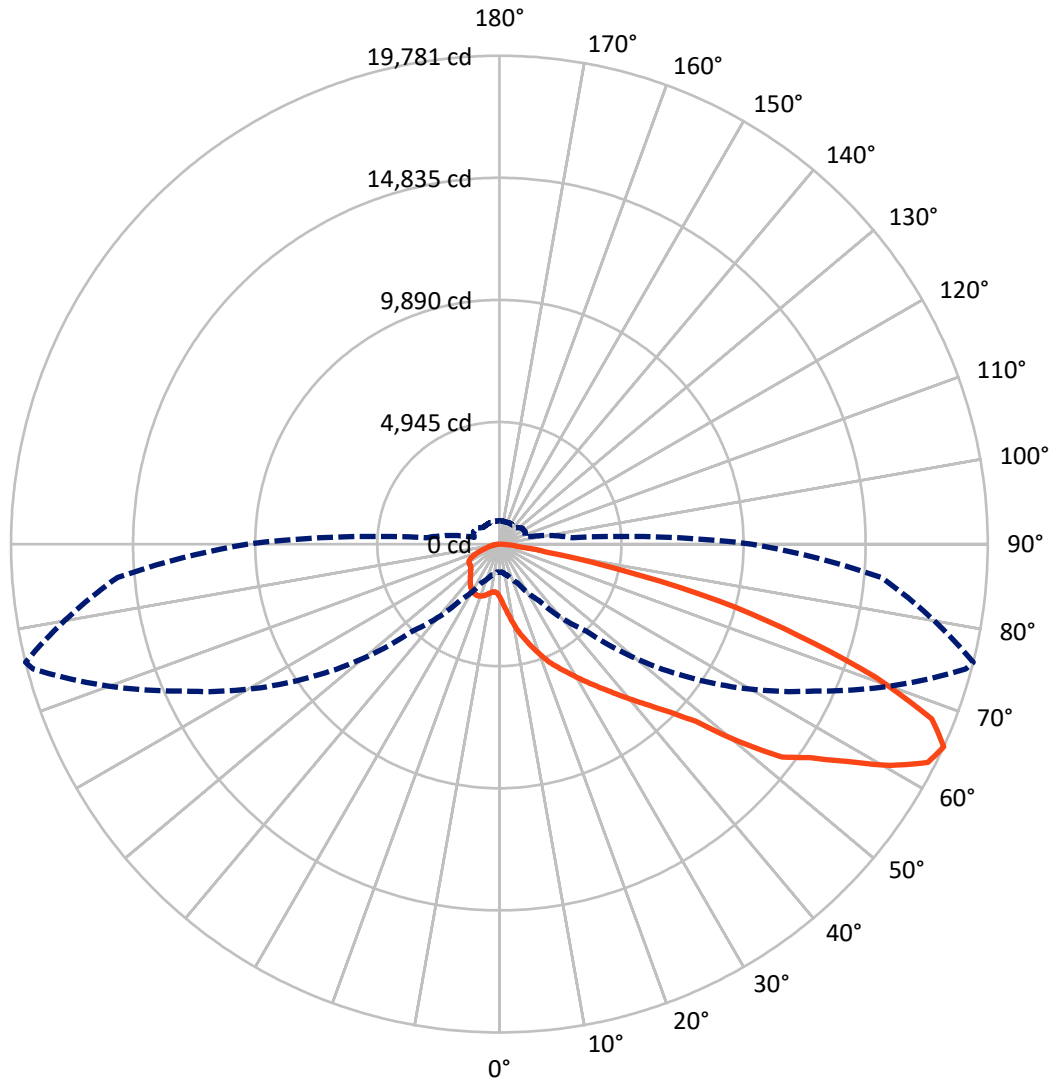
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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	3771.5	0.0	3771.5
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	18791.9	0.0	18791.9
	% Fixture	83.3	0.0	83.3
Total	Lumens	22563.4	0.0	22563.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.8	1.1
10°-20°	966.9	4.3
20°-30°	1884.3	8.4
30°-40°	3151.4	14.0
40°-50°	4512.2	20.0
50°-60°	5341.8	23.7
60°-70°	4441.8	19.7
70°-80°	1817.7	8.1
80°-90°	193.5	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°	22563.4	100.0
0°-180°	22563.4	100.0

Coefficient of Utilization



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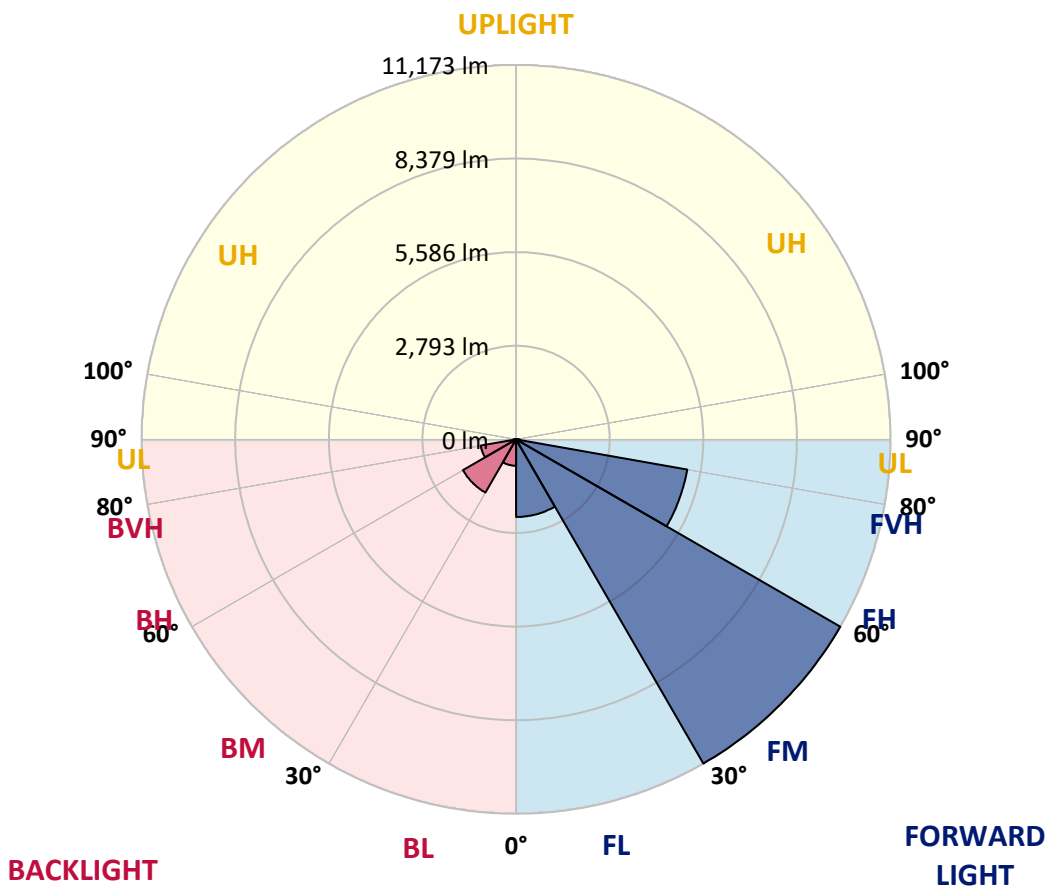
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2316.0	10.3			
FM (30°-60°)	11172.5	49.5			
FH (60°-80°)	5187.9	23.0			G3/7500
FVH (80°-90°)	115.4	0.5			G2/225
BL (0°-30°)	789.0	3.5	B2/1000		
BM (30°-60°)	1832.9	8.1	B2/2500		
BH (60°-80°)	1071.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	78.1	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°	2136.7	2136.7	2136.7	2136.7	2136.7	2136.7	2136.7	2136.7	2136.7	2136.7	2136.7
2.5°	2994.8	3005.9	2969.4	2956.8	2871.1	2755.3	2658.5	2512.6	2377.8	2357.2	2236.6
5°	3803.8	3756.2	3715.0	3688.0	3569.0	3437.4	3232.8	2958.3	2671.2	2636.3	2376.2
7.5°	4284.4	4276.5	4225.8	4209.9	4117.9	3986.2	3775.3	3434.2	3017.0	2959.9	2565.0
10°	4669.9	4665.1	4639.8	4654.0	4570.0	4441.5	4236.9	3884.7	3396.1	3339.0	2775.9
12.5°	5006.2	5014.1	5009.4	5061.7	5018.9	4918.9	4706.4	4319.3	3775.3	3713.4	3032.9
15°	5252.1	5258.4	5282.2	5396.4	5420.2	5399.6	5183.8	4746.0	4149.6	4060.8	3297.8
17.5°	5321.8	5334.5	5391.6	5575.6	5704.1	5789.8	5629.6	5180.7	4517.6	4420.9	3567.5
20°	5415.4	5429.7	5486.8	5678.8	5867.5	6062.6	6034.1	5621.6	4888.8	4809.5	3840.3
22.5°	5848.5	5837.4	5812.0	5904.0	6038.8	6281.5	6352.9	6045.2	5272.7	5196.5	4141.7
25°	6682.8	6662.2	6500.4	6416.4	6371.9	6519.5	6646.4	6430.6	5647.0	5532.8	4422.4
27.5°	7602.9	7591.8	7385.6	7185.7	6912.9	6849.4	6924.0	6766.9	6010.3	5894.5	4666.7
30°	8473.7	8440.4	8224.7	7974.0	7609.2	7336.4	7226.9	7096.9	6408.4	6287.9	4952.3
32.5°	9252.6	9209.7	8955.9	8678.3	8296.1	7974.0	7647.3	7447.4	6858.9	6719.3	5244.1
35°	9891.8	9849.0	9588.8	9293.8	8873.4	8635.5	8188.2	7828.1	7317.3	7176.2	5588.3
37.5°	10386.7	10347.1	10075.8	9785.5	9419.1	9230.4	8841.7	8256.4	7845.6	7698.0	5953.2
40°	10664.3	10635.8	10418.5	10188.4	9880.7	9717.3	9542.8	8797.3	8437.2	8289.7	6383.0
42.5°	10748.4	10729.4	10577.1	10458.1	10250.3	10126.6	10226.5	9433.4	9068.6	8940.1	6866.8
45°	10537.4	10537.4	10493.0	10553.3	10562.8	10561.2	10911.8	10152.0	9844.2	9703.1	7548.9
47.5°	9998.1	10033.0	10098.0	10394.7	10707.1	10968.9	11712.8	11110.1	10842.0	10726.2	8515.0
50°	9011.5	9106.6	9328.7	9907.7	10572.3	11238.5	12471.0	12526.6	12782.0	12577.3	9936.2
52.5°	7566.4	7552.1	8118.4	8943.2	9956.9	11249.6	12888.2	13776.5	14463.4	14322.2	10992.7
55°	6013.5	5989.7	6517.9	7655.2	9013.0	10824.5	13138.9	14349.2	15396.1	15269.2	11942.8
57.5°	4604.9	4574.7	5044.3	6070.6	7680.6	9922.0	13091.3	15031.2	16679.4	16614.3	13234.0
60°	3169.3	3132.8	3572.2	4470.0	6103.9	8541.9	12564.6	15381.8	18181.5	18203.7	14615.7
62.5°	1903.5	1882.9	2201.7	2898.1	4390.7	6832.0	11332.1	15169.3	19377.6	19477.5	15503.9
65°	1148.4	1134.2	1321.3	1729.0	2785.4	4985.6	9431.8	14082.7	19550.5	19780.5	15524.6
67.5°	836.0	837.5	891.5	1053.3	1624.3	3220.1	7077.8	12134.8	18649.5	18887.4	14545.9
70°	726.5	729.7	758.2	794.7	981.9	1843.2	4601.7	9579.3	15986.2	16170.2	12199.8
72.5°	645.6	645.6	664.6	683.7	767.7	1123.1	2465.0	6695.5	12617.0	12666.2	9311.3
75°	567.9	563.1	572.6	582.2	666.2	785.2	1199.2	4665.1	9319.2	9205.0	6018.2
77.5°	452.1	447.3	448.9	458.4	534.6	561.5	607.5	2913.9	5252.1	4957.0	2658.5
80°	322.0	318.8	336.3	360.1	395.0	344.2	380.7	1410.2	2082.7	1938.4	1031.1
82.5°	191.9	198.3	225.2	244.3	272.8	215.7	245.9	471.1	737.6	718.6	418.8
85°	27.0	28.6	80.9	93.6	117.4	84.1	130.1	212.6	295.0	315.7	147.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	11.1	38.1	84.1	85.7	36.5
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°	2136.7	2136.7	2136.7	2136.7	2136.7	2136.7	2136.7	2136.7	2136.7	2136.7	2136.7
2.5°	2174.7	2100.2	1993.9	1905.1	1830.5	1770.2	1719.5	1681.4	1670.3	1654.5	1654.5
5°	2254.1	2119.2	1928.9	1794.0	1716.3	1670.3	1638.6	1622.7	1614.8	1605.3	1600.5
7.5°	2363.5	2174.7	1917.8	1781.4	1721.1	1692.5	1671.9	1662.4	1656.0	1646.5	1646.5
10°	2514.2	2257.2	1952.7	1825.8	1778.2	1749.6	1725.8	1710.0	1695.7	1681.4	1678.2
12.5°	2677.6	2365.1	2016.1	1886.0	1835.3	1800.4	1767.1	1743.3	1725.8	1708.4	1703.6
15°	2858.4	2476.1	2084.3	1944.7	1881.3	1833.7	1794.0	1757.6	1733.8	1708.4	1705.2
17.5°	3036.1	2588.8	2141.4	1984.4	1903.5	1844.8	1787.7	1740.1	1710.0	1681.4	1673.5
20°	3248.6	2701.4	2181.1	1995.5	1898.7	1821.0	1752.8	1692.5	1659.2	1625.9	1621.1
22.5°	3443.7	2806.1	2200.1	1979.6	1862.3	1770.2	1690.9	1625.9	1589.4	1556.1	1549.8
25°	3632.5	2898.1	2192.2	1941.6	1806.7	1700.5	1618.0	1552.9	1518.0	1483.1	1473.6
27.5°	3814.9	2959.9	2160.5	1882.9	1736.9	1622.7	1543.4	1484.7	1454.6	1424.4	1411.8
30°	3994.2	3017.0	2111.3	1806.7	1648.1	1541.8	1476.8	1435.6	1405.4	1373.7	1364.2
32.5°	4175.0	3058.3	2036.7	1717.9	1557.7	1470.4	1430.8	1400.7	1368.9	1337.2	1327.7
35°	4357.4	3075.7	1946.3	1616.4	1481.6	1424.4	1410.2	1375.3	1332.4	1294.4	1281.7
37.5°	4574.7	3091.6	1833.7	1516.4	1414.9	1402.2	1399.1	1346.7	1296.0	1243.6	1229.3
40°	4836.5	3112.2	1717.9	1426.0	1361.0	1394.3	1381.6	1310.2	1208.7	1158.0	1142.1
42.5°	5156.9	3150.3	1597.3	1343.5	1321.3	1364.2	1349.9	1221.4	1153.2	1124.6	1116.7
45°	5628.0	3289.9	1476.8	1278.5	1291.2	1321.3	1299.1	1169.1	1142.1	1123.1	1113.5
47.5°	6467.1	3504.0	1372.1	1229.3	1267.4	1283.3	1197.6	1154.8	1134.2	1108.8	1097.7
50°	7339.6	3597.6	1288.0	1199.2	1240.4	1248.4	1142.1	1135.8	1121.5	1094.5	1083.4
52.5°	7929.6	3584.9	1237.3	1188.1	1218.2	1188.1	1116.7	1115.1	1105.6	1073.9	1061.2
55°	8595.9	3607.1	1215.1	1191.3	1208.7	1086.6	1085.0	1089.7	1085.0	1050.1	1043.7
57.5°	9495.3	3675.3	1204.0	1202.4	1202.4	1037.4	1054.9	1061.2	1051.7	1035.8	1031.1
60°	10359.8	3680.1	1183.3	1215.1	1197.6	1007.3	1020.0	1026.3	1015.2	1012.0	1010.4
62.5°	10684.9	3451.7	1137.3	1205.5	1178.6	974.0	983.5	986.6	975.5	983.5	981.9
65°	10201.1	2966.3	1061.2	1159.5	1119.9	943.8	937.5	945.4	926.4	947.0	948.6
67.5°	9057.5	2357.2	945.4	1072.3	1037.4	910.5	897.8	897.8	866.1	897.8	896.2
70°	7303.1	1665.6	775.7	932.7	947.0	870.8	864.5	828.0	777.3	824.8	820.1
72.5°	5536.0	1196.0	610.7	737.6	815.3	815.3	816.9	755.1	696.4	718.6	699.5
75°	3507.2	842.3	488.6	564.7	639.3	715.4	751.9	637.7	585.3	575.8	566.3
77.5°	1579.9	553.6	380.7	433.0	453.7	564.7	686.8	548.8	477.5	456.8	450.5
80°	661.5	344.2	271.2	306.1	279.2	474.3	605.9	426.7	350.6	322.0	301.4
82.5°	290.3	204.6	172.9	165.0	174.5	352.1	452.1	283.9	218.9	296.6	299.8
85°	122.1	107.9	88.8	80.9	71.4	134.8	212.6	111.0	136.4	77.7	63.4
87.5°	28.6	31.7	23.8	15.9	9.5	1.6	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)