

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: P635800

Luminaire Tested: GWS-SA3E-740-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635800
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-SA3E-740-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22424.3 lumens
Efficiency: N/A
Efficacy: 140.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

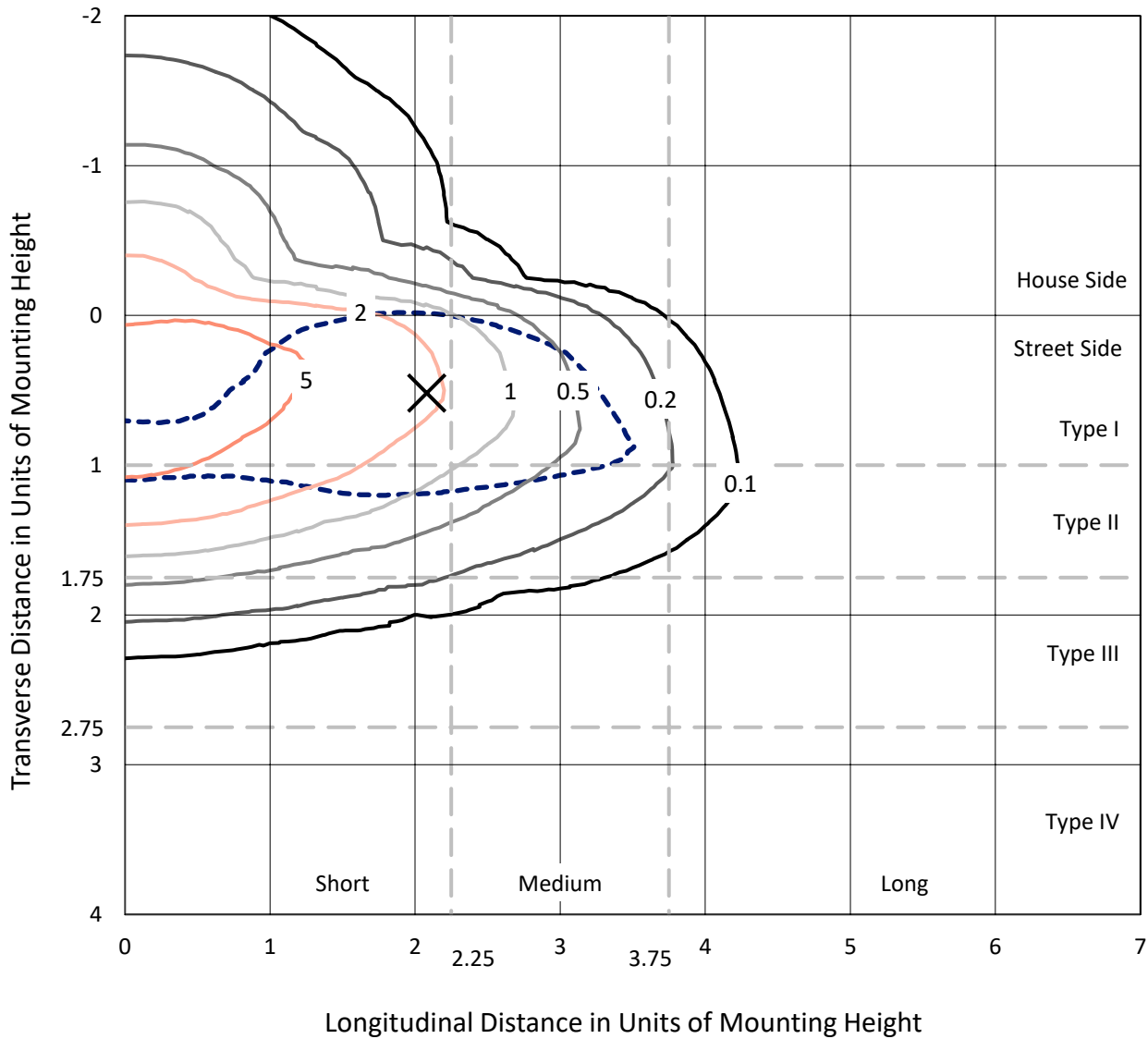
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

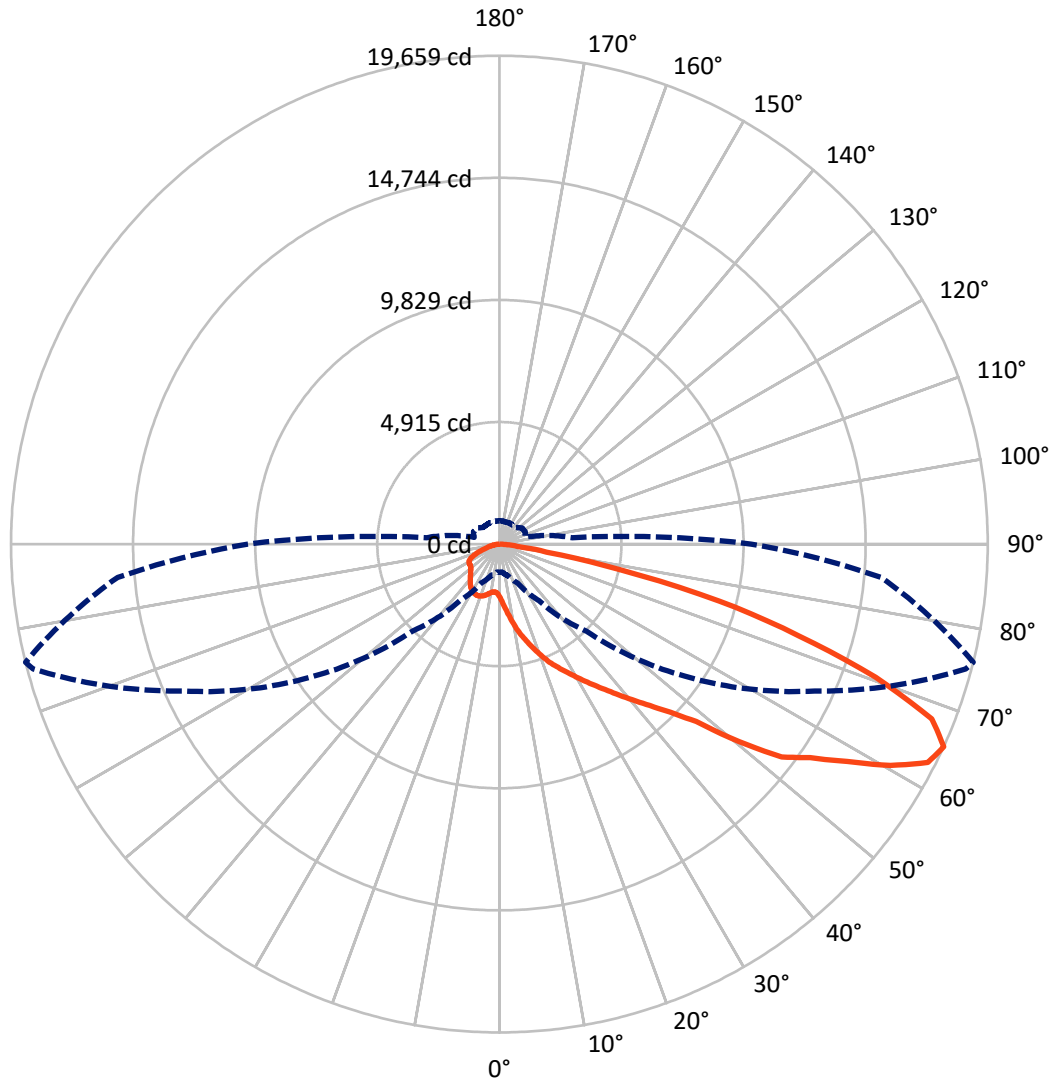
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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	3748.3	0.0	3748.3
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	18676.1	0.0	18676.1
	% Fixture	83.3	0.0	83.3
Total	Lumens	22424.3	0.0	22424.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.3	1.1
10°-20°	960.9	4.3
20°-30°	1872.7	8.4
30°-40°	3132.0	14.0
40°-50°	4484.4	20.0
50°-60°	5308.9	23.7
60°-70°	4414.4	19.7
70°-80°	1806.5	8.1
80°-90°	192.3	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°	22424.3	100.0
0°-180°	22424.3	100.0

Coefficient of Utilization



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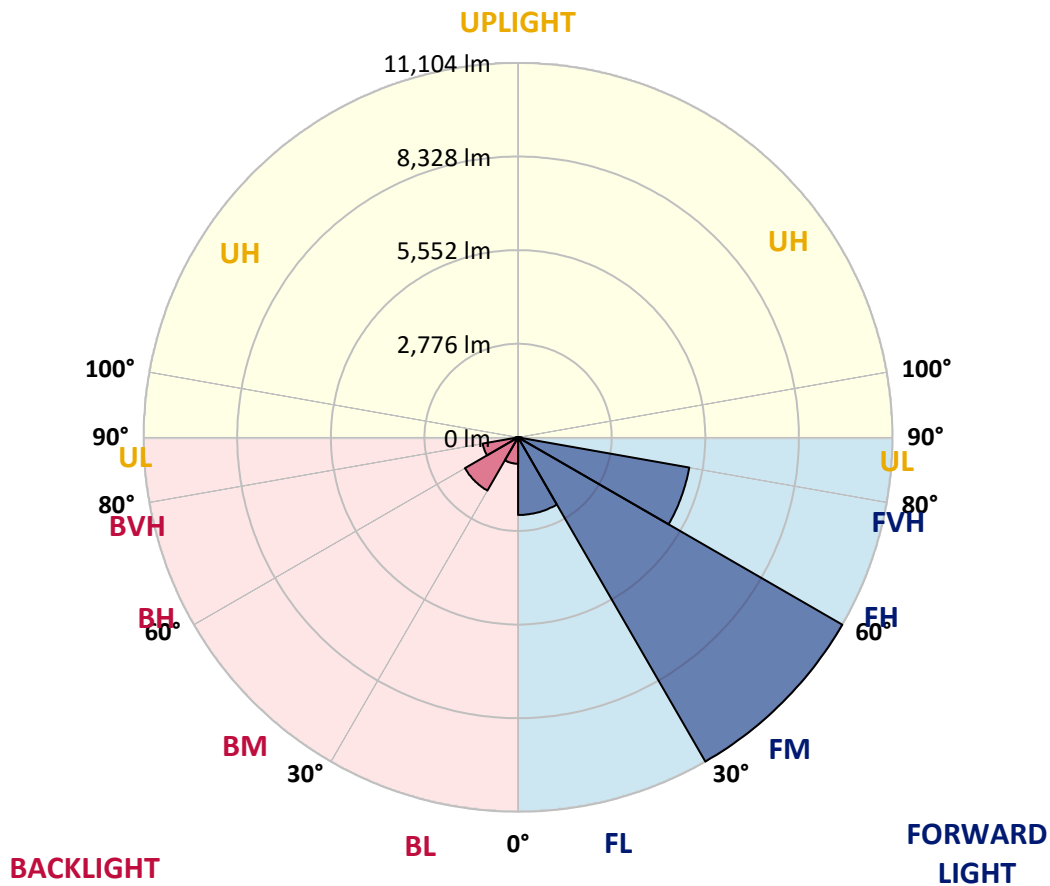
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2301.8	10.3			
FM	(30°-60°)	11103.7	49.5			
FH	(60°-80°)	5155.9	23.0			G3/7500
FVH	(80°-90°)	114.7	0.5			G2/225
BL	(0°-30°)	784.1	3.5	B2/1000		
BM	(30°-60°)	1821.6	8.1	B2/2500		
BH	(60°-80°)	1064.9	4.7	B3/2500		G3/2500
BVH	(80°-90°)	77.6	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°	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5
2.5°	2976.4	2987.4	2951.1	2938.5	2853.4	2738.3	2642.2	2497.1	2363.1	2342.6	2222.8
5°	3780.4	3733.1	3692.1	3665.3	3547.0	3416.2	3212.8	2940.1	2654.8	2620.1	2361.5
7.5°	4258.0	4250.1	4199.7	4183.9	4092.5	3961.7	3752.0	3413.0	2998.4	2941.7	2549.1
10°	4641.1	4636.4	4611.2	4625.3	4541.8	4414.1	4210.7	3860.8	3375.2	3318.5	2758.8
12.5°	4975.3	4983.2	4978.5	5030.5	4987.9	4888.6	4677.4	4292.7	3752.0	3690.5	3014.2
15°	5219.7	5226.0	5249.6	5363.1	5386.8	5366.3	5151.9	4716.8	4124.0	4035.8	3277.5
17.5°	5289.0	5301.7	5358.4	5541.3	5669.0	5754.1	5594.9	5148.7	4489.8	4393.6	3545.5
20°	5382.1	5396.2	5453.0	5643.7	5831.3	6025.2	5996.9	5587.0	4858.7	4779.8	3816.6
22.5°	5812.4	5801.4	5776.2	5867.6	6001.6	6242.8	6313.7	6007.9	5240.2	5164.5	4116.2
25°	6641.6	6621.2	6460.4	6376.8	6332.7	6479.3	6605.4	6391.0	5612.2	5498.7	4395.2
27.5°	7556.0	7545.0	7340.0	7141.4	6870.2	6807.2	6881.3	6725.2	5973.2	5858.1	4638.0
30°	8421.5	8388.4	8174.0	7924.9	7562.3	7291.2	7182.4	7053.1	6368.9	6249.1	4921.7
32.5°	9195.5	9153.0	8900.7	8624.8	8244.9	7924.9	7600.1	7401.5	6816.6	6677.9	5211.8
35°	9830.8	9788.3	9529.7	9236.5	8818.7	8582.3	8137.7	7779.9	7272.2	7131.9	5553.9
37.5°	10322.7	10283.3	10013.7	9725.2	9361.0	9173.4	8787.2	8205.5	7797.2	7650.6	5916.5
40°	10598.6	10570.2	10354.2	10125.6	9819.8	9657.4	9484.0	8743.1	8385.2	8238.6	6343.7
42.5°	10682.1	10663.2	10511.9	10393.6	10187.1	10064.2	10163.5	9375.2	9012.7	8885.0	6824.5
45°	10472.5	10472.5	10428.3	10488.2	10497.7	10496.1	10844.5	10089.4	9783.5	9643.2	7502.4
47.5°	9936.5	9971.1	10035.8	10330.6	10641.1	10901.3	11640.6	11041.6	10775.1	10660.1	8462.5
50°	8955.9	9050.5	9271.2	9846.6	10507.1	11169.3	12394.2	12449.3	12703.2	12499.8	9875.0
52.5°	7519.7	7505.5	8068.3	8888.1	9895.5	11180.3	12808.8	13691.6	14374.2	14233.9	10924.9
55°	5976.4	5952.7	6477.7	7608.0	8957.5	10757.8	13057.9	14260.7	15301.2	15175.1	11869.2
57.5°	4576.5	4546.5	5013.2	6033.1	7633.2	9860.8	13010.6	14938.6	16576.5	16511.9	13152.4
60°	3149.8	3113.5	3550.2	4442.5	6066.2	8489.3	12487.2	15287.0	18069.4	18091.5	14525.5
62.5°	1891.8	1871.3	2188.1	2880.2	4363.7	6789.8	11262.3	15075.7	19258.1	19357.4	15408.4
65°	1141.4	1127.2	1313.2	1718.3	2768.3	4954.8	9373.7	13995.9	19429.9	19658.5	15428.9
67.5°	830.8	832.4	886.0	1046.8	1614.3	3200.2	7034.2	12060.0	18534.5	18771.0	14456.2
70°	722.0	725.2	753.6	789.8	975.8	1831.9	4573.3	9520.3	15887.6	16070.5	12124.6
72.5°	641.6	641.6	660.5	679.5	763.0	1116.1	2449.8	6654.3	12539.2	12588.1	9253.8
75°	564.4	559.6	569.1	578.6	662.1	780.4	1191.8	4636.4	9261.7	9148.2	5981.1
77.5°	449.3	444.6	446.1	455.6	531.3	558.1	603.8	2896.0	5219.7	4926.5	2642.2
80°	320.0	316.9	334.2	357.9	392.5	342.1	378.4	1401.5	2069.9	1926.4	1024.7
82.5°	190.8	197.1	223.9	242.8	271.2	214.4	244.4	468.2	733.1	714.1	416.2
85°	26.8	28.4	80.4	93.0	116.7	83.6	129.3	211.2	293.2	313.7	146.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	11.0	37.8	83.6	85.1	36.3
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°	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5	2123.5
2.5°	2161.3	2087.2	1981.6	1893.3	1819.2	1759.3	1708.9	1671.1	1660.0	1644.3	1644.3
5°	2240.2	2106.2	1917.0	1783.0	1705.7	1660.0	1628.5	1612.7	1604.8	1595.4	1590.7
7.5°	2348.9	2161.3	1905.9	1770.4	1710.5	1682.1	1661.6	1652.1	1645.8	1636.4	1636.4
10°	2498.7	2243.3	1940.6	1814.5	1767.2	1738.8	1715.2	1699.4	1685.2	1671.1	1667.9
12.5°	2661.1	2350.5	2003.7	1874.4	1824.0	1789.3	1756.2	1732.5	1715.2	1697.9	1693.1
15°	2840.8	2460.9	2071.5	1932.7	1869.7	1822.4	1783.0	1746.7	1723.1	1697.9	1694.7
17.5°	3017.4	2572.8	2128.2	1972.2	1891.8	1833.4	1776.7	1729.4	1699.4	1671.1	1663.2
20°	3228.6	2684.7	2167.6	1983.2	1887.0	1809.8	1742.0	1682.1	1649.0	1615.9	1611.1
22.5°	3422.5	2788.8	2186.6	1967.4	1850.8	1759.3	1680.5	1615.9	1579.6	1546.5	1540.2
25°	3610.1	2880.2	2178.7	1929.6	1795.6	1690.0	1608.0	1543.4	1508.7	1474.0	1464.5
27.5°	3791.4	2941.7	2147.1	1871.3	1726.2	1612.7	1533.9	1475.6	1445.6	1415.7	1403.1
30°	3969.5	2998.4	2098.3	1795.6	1637.9	1532.3	1467.7	1426.7	1396.7	1365.2	1355.8
32.5°	4149.3	3039.4	2024.2	1707.3	1548.1	1461.4	1422.0	1392.0	1360.5	1329.0	1319.5
35°	4330.5	3056.8	1934.3	1606.4	1472.4	1415.7	1401.5	1366.8	1324.2	1286.4	1273.8
37.5°	4546.5	3072.5	1822.4	1507.1	1406.2	1393.6	1390.4	1338.4	1288.0	1235.9	1221.8
40°	4806.6	3093.0	1707.3	1417.2	1352.6	1385.7	1373.1	1302.2	1201.3	1150.8	1135.1
42.5°	5125.1	3130.9	1587.5	1335.3	1313.2	1355.8	1341.6	1213.9	1146.1	1117.7	1109.8
45°	5593.3	3269.6	1467.7	1270.6	1283.2	1313.2	1291.1	1161.9	1135.1	1116.1	1106.7
47.5°	6427.2	3482.4	1363.6	1221.8	1259.6	1275.4	1190.2	1147.7	1127.2	1101.9	1090.9
50°	7294.3	3575.4	1280.1	1191.8	1232.8	1240.7	1135.1	1128.7	1114.6	1087.8	1076.7
52.5°	7880.7	3562.8	1229.6	1180.8	1210.7	1180.8	1109.8	1108.3	1098.8	1067.3	1054.7
55°	8542.9	3584.9	1207.6	1183.9	1201.3	1079.9	1078.3	1083.0	1078.3	1043.6	1037.3
57.5°	9436.7	3652.7	1196.5	1195.0	1195.0	1031.0	1048.3	1054.7	1045.2	1029.4	1024.7
60°	10295.9	3657.4	1176.0	1207.6	1190.2	1001.1	1013.7	1020.0	1008.9	1005.8	1004.2
62.5°	10619.1	3430.4	1130.3	1198.1	1171.3	967.9	977.4	980.6	969.5	977.4	975.8
65°	10138.2	2948.0	1054.7	1152.4	1113.0	938.0	931.7	939.6	920.7	941.1	942.7
67.5°	9001.6	2342.6	939.6	1065.7	1031.0	904.9	892.3	892.3	860.7	892.3	890.7
70°	7258.0	1655.3	770.9	927.0	941.1	865.5	859.2	822.9	772.5	819.8	815.0
72.5°	5501.9	1188.7	606.9	733.1	810.3	810.3	811.9	750.4	692.1	714.1	695.2
75°	3485.6	837.1	485.6	561.2	635.3	711.0	747.2	633.7	581.7	572.3	562.8
77.5°	1570.2	550.2	378.4	430.4	450.9	561.2	682.6	545.5	474.5	454.0	447.7
80°	657.4	342.1	269.6	304.3	277.5	471.4	602.2	424.1	348.4	320.0	299.5
82.5°	288.5	203.4	171.8	164.0	173.4	350.0	449.3	282.2	217.6	294.8	298.0
85°	121.4	107.2	88.3	80.4	70.9	134.0	211.2	110.4	135.6	77.2	63.1
87.5°	28.4	31.5	23.6	15.8	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)