

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: P637558

Luminaire Tested: GWS-SA4D-722-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637558
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-SA4D-722-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15875.7 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 162.1
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

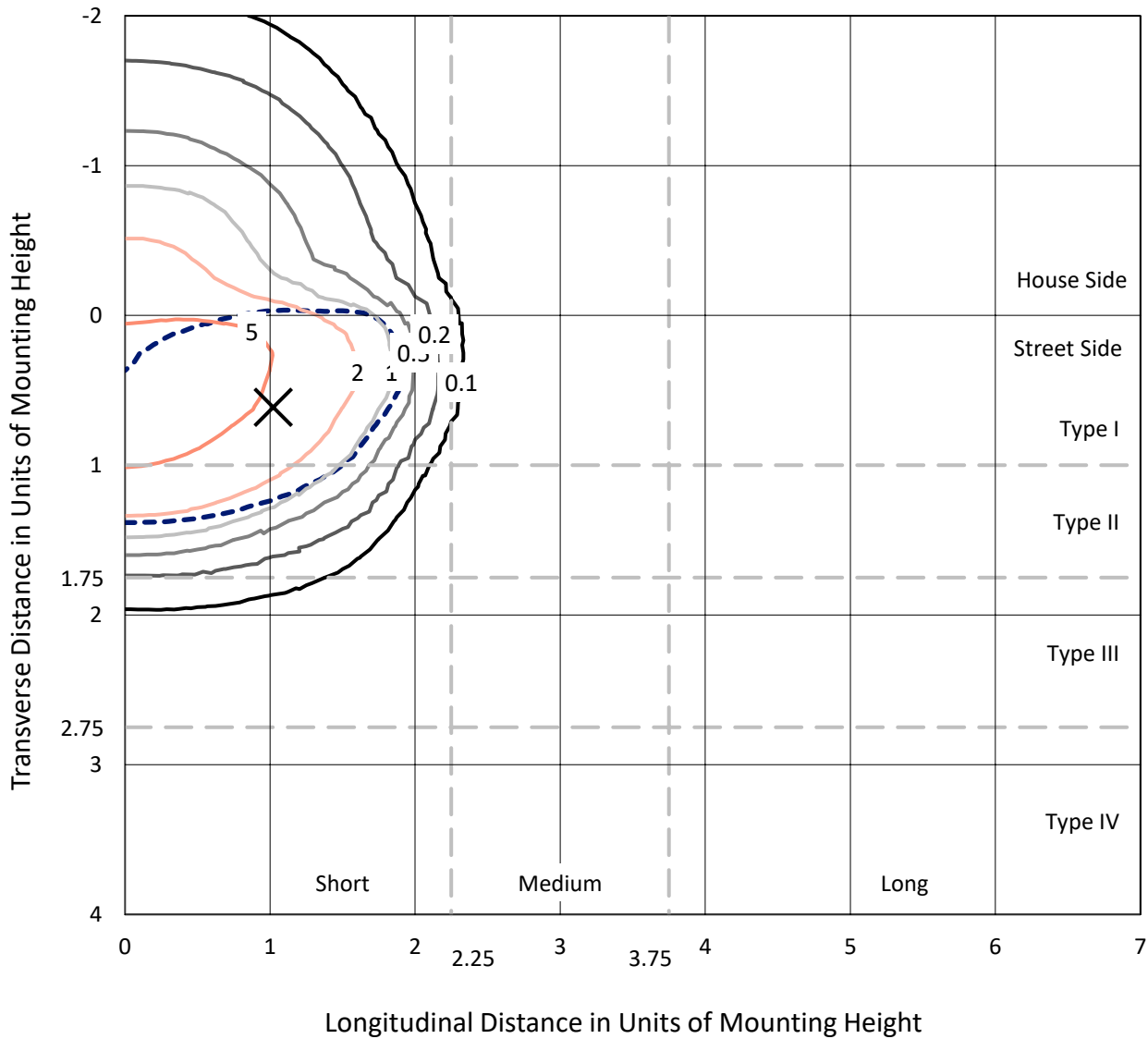


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Iso-Footcandle Lines of Horizontal Illumination

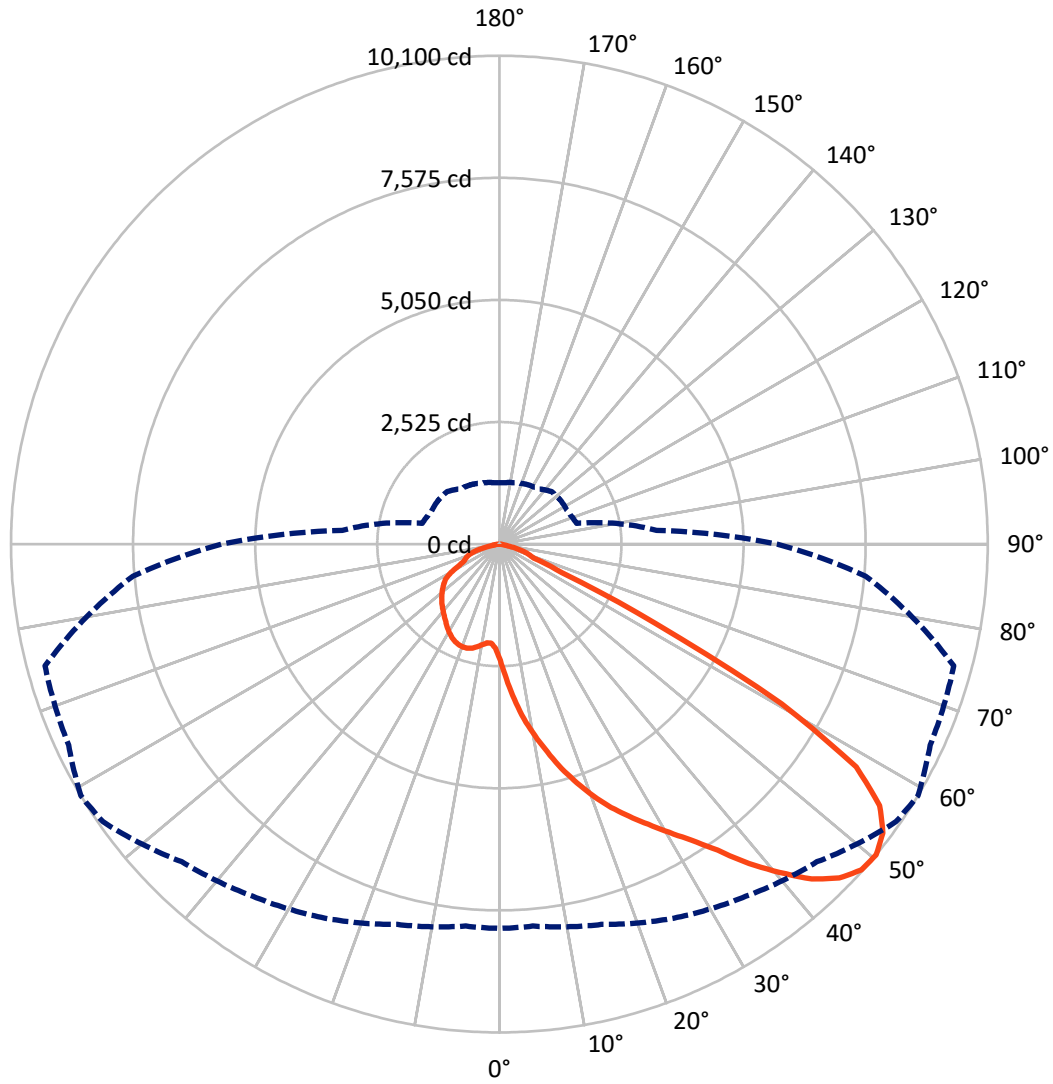
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	3651.7	0.0	3651.7
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	12224.0	0.0	12224.0
	% Fixture	77.0	0.0	77.0
Total	Lumens	15875.7	0.0	15875.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.8	1.7
10°-20°	979.5	6.2
20°-30°	1854.8	11.7
30°-40°	3075.9	19.4
40°-50°	4201.9	26.5
50°-60°	3814.2	24.0
60°-70°	1270.2	8.0
70°-80°	370.5	2.3
80°-90°	38.9	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°	15875.7	100.0
0°-180°	15875.7	100.0

Coefficient of Utilization



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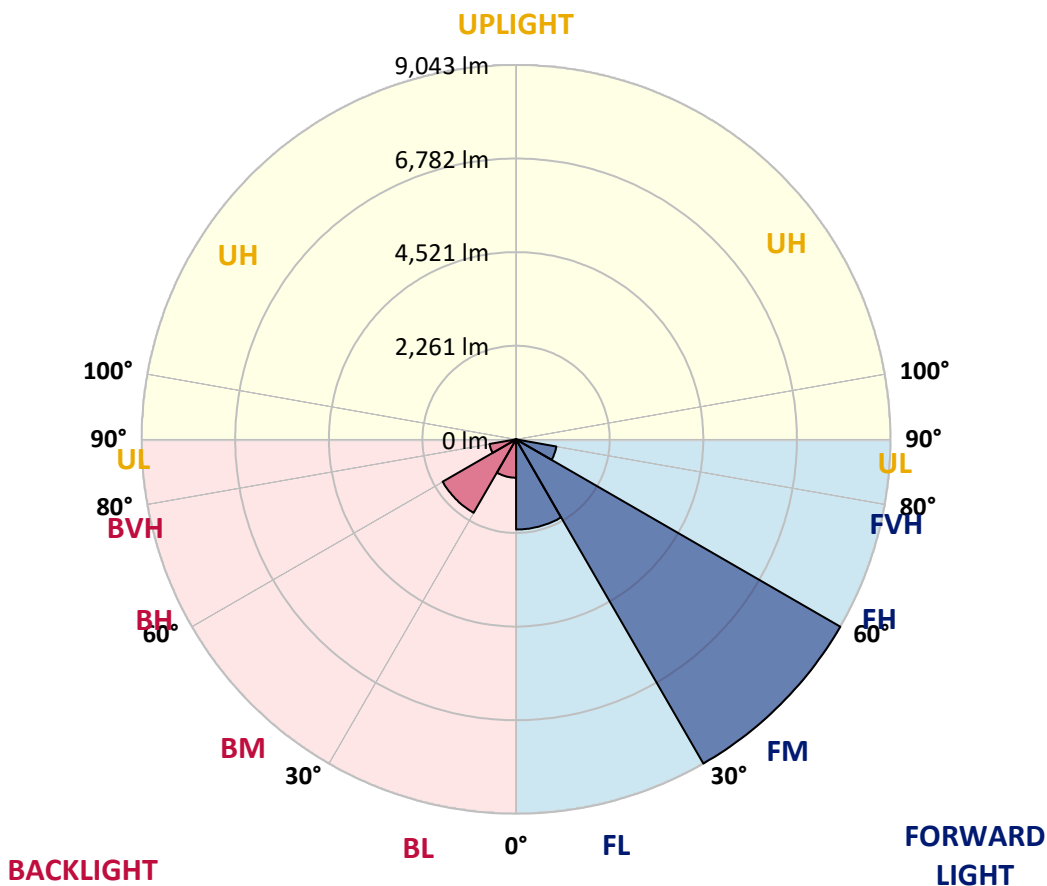
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2176.9	13.7			
FM (30°-60°)	9043.0	57.0			
FH (60°-80°)	988.8	6.2			G1/1800
FVH (80°-90°)	15.2	0.1			G1/100
BL (0°-30°)	927.3	5.8	B2/1000		
BM (30°-60°)	2049.0	12.9	B2/2500		
BH (60°-80°)	651.8	4.1	B2/1000		G2/1000
BVH (80°-90°)	23.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2405.3	2405.3	2405.3	2405.3	2405.3	2405.3	2405.3	2405.3	2405.3	2405.3	2405.3
2.5°	3116.5	3139.8	3103.6	3106.2	3015.7	2974.3	2857.9	2789.3	2744.1	2617.4	2502.3
5°	3745.0	3717.8	3689.4	3672.6	3593.7	3482.5	3337.7	3222.6	3116.5	2868.2	2629.0
7.5°	4130.4	4116.1	4096.7	4086.4	4008.8	3892.4	3747.6	3649.3	3495.4	3159.2	2782.9
10°	4457.5	4440.7	4429.1	4436.8	4373.5	4298.5	4140.7	4028.2	3854.9	3467.0	2969.1
12.5°	4711.0	4720.0	4723.9	4765.3	4738.1	4692.9	4529.9	4411.0	4218.3	3791.6	3187.6
15°	4911.4	4908.8	4954.1	5033.0	5077.0	5048.5	4917.9	4818.3	4583.0	4111.0	3423.0
17.5°	4958.0	4960.6	5031.7	5170.1	5313.6	5383.4	5309.7	5190.8	4958.0	4426.5	3667.4
20°	4995.5	5000.7	5074.4	5232.1	5441.6	5636.9	5648.5	5563.2	5362.7	4767.9	3915.7
22.5°	5232.1	5243.8	5263.2	5362.7	5551.5	5798.5	5934.3	5916.2	5748.1	5126.1	4183.4
25°	5854.1	5819.2	5724.8	5696.4	5768.8	5969.2	6200.7	6235.6	6152.9	5520.5	4471.8
27.5°	6622.3	6584.8	6445.1	6297.7	6141.2	6211.1	6458.0	6562.8	6564.1	5955.0	4761.4
30°	7319.3	7289.6	7175.8	6965.0	6694.7	6593.8	6776.2	6917.1	7001.2	6456.8	5091.2
32.5°	7915.4	7888.3	7734.4	7562.4	7298.6	7095.6	7161.5	7297.3	7493.9	7105.9	5501.1
35°	8417.2	8390.0	8242.6	8069.3	7824.9	7703.4	7680.1	7773.2	8027.9	7783.5	5971.8
37.5°	8824.5	8797.4	8643.5	8480.6	8294.3	8302.1	8337.0	8382.3	8528.4	8509.0	6474.9
40°	9088.3	9059.9	8950.0	8833.6	8715.9	8809.0	8982.3	8928.0	9005.6	9094.8	6937.8
42.5°	9206.0	9169.8	9106.4	9080.6	9044.4	9189.2	9522.8	9468.5	9375.4	9485.3	7281.8
45°	9088.3	9057.3	9056.0	9134.9	9218.9	9405.2	9896.6	9852.6	9617.2	9674.1	7487.4
47.5°	8727.5	8700.4	8774.1	8981.0	9187.9	9459.5	10063.4	10071.1	9789.2	9753.0	7620.6
50°	7947.8	7929.7	8143.0	8534.9	8891.8	9290.1	10010.4	10099.6	9830.6	9728.5	7603.8
52.5°	6362.4	6446.4	6910.7	7565.0	8258.1	8992.6	9813.8	9930.2	9631.5	9566.8	7513.3
55°	4355.4	4394.2	4858.4	5814.1	6913.2	8348.7	9362.5	9542.2	9396.1	9539.7	7607.7
57.5°	2255.3	2286.3	2652.3	3500.6	4689.0	6597.7	8109.4	8699.1	8921.5	9676.7	7901.2
60°	925.9	951.8	1103.1	1513.0	2365.2	3842.0	5836.0	6710.2	7232.7	8837.5	7016.7
62.5°	672.4	685.4	757.8	902.6	1238.8	1882.8	3302.7	3624.7	3992.0	5538.6	4454.9
65°	566.4	580.6	638.8	726.8	903.9	1154.8	1410.8	1418.6	1563.4	2256.6	1651.4
67.5°	474.6	487.5	539.2	614.3	730.6	819.9	757.8	759.1	756.5	818.6	791.4
70°	369.8	380.2	431.9	512.1	572.9	526.3	592.3	655.6	628.5	653.0	690.5
72.5°	270.3	281.9	327.2	387.9	372.4	375.0	479.8	544.4	528.9	556.1	591.0
75°	195.3	203.0	226.3	194.0	204.3	247.0	337.5	372.4	387.9	411.2	442.3
77.5°	63.4	63.4	71.1	89.2	111.2	137.1	172.0	186.2	209.5	235.4	257.3
80°	32.3	33.6	40.1	49.1	62.1	78.9	100.9	107.3	119.0	133.2	142.2
82.5°	15.5	16.8	19.4	24.6	32.3	41.4	55.6	62.1	69.8	78.9	85.3
85°	3.9	3.9	5.2	7.8	10.3	15.5	20.7	24.6	31.0	37.5	41.4
87.5°	0.0	0.0	0.0	0.0	0.0	1.3	3.9	5.2	6.5	7.8	10.3
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°	2405.3	2405.3	2405.3	2405.3	2405.3	2405.3	2405.3	2405.3	2405.3	2405.3	2405.3
2.5°	2450.5	2378.1	2285.0	2206.1	2133.7	2078.1	2030.3	2007.0	1985.0	1969.5	1974.7
5°	2517.8	2393.6	2220.4	2100.1	2026.4	1988.9	1963.0	1950.1	1947.5	1937.2	1933.3
7.5°	2616.1	2438.9	2207.4	2085.9	2036.7	2017.3	2003.1	1995.3	1999.2	1988.9	1985.0
10°	2737.6	2513.9	2239.8	2132.4	2089.7	2075.5	2060.0	2049.7	2044.5	2029.0	2026.4
12.5°	2888.9	2607.0	2297.9	2191.9	2149.2	2124.7	2104.0	2085.9	2074.2	2054.8	2049.7
15°	3051.9	2710.5	2366.5	2250.1	2199.7	2163.5	2129.8	2102.7	2082.0	2056.1	2052.2
17.5°	3229.0	2819.1	2423.4	2290.2	2225.5	2177.7	2128.5	2088.5	2060.0	2026.4	2022.5
20°	3413.9	2929.0	2466.1	2309.6	2226.8	2162.2	2096.2	2043.2	2007.0	1973.4	1970.8
22.5°	3605.3	3029.9	2491.9	2304.4	2206.1	2126.0	2047.1	1987.6	1944.9	1904.8	1902.2
25°	3798.0	3126.9	2498.4	2283.7	2164.8	2071.6	1992.8	1922.9	1875.1	1829.8	1824.7
27.5°	3993.3	3208.3	2482.9	2242.3	2109.1	2008.3	1929.4	1860.9	1811.7	1766.5	1758.7
30°	4201.5	3278.2	2449.2	2188.0	2044.5	1941.0	1863.4	1811.7	1765.2	1719.9	1712.1
32.5°	4423.9	3338.9	2401.4	2122.1	1969.5	1873.8	1816.9	1770.3	1723.8	1683.7	1675.9
35°	4689.0	3379.0	2330.3	2036.7	1899.7	1824.7	1785.9	1731.5	1674.6	1630.7	1626.8
37.5°	4963.2	3410.1	2244.9	1955.3	1838.9	1796.2	1763.9	1690.2	1619.0	1566.0	1559.6
40°	5228.3	3435.9	2138.9	1879.0	1783.3	1775.5	1731.5	1639.7	1516.9	1457.4	1452.2
42.5°	5475.2	3443.7	2027.7	1797.5	1732.8	1729.0	1679.8	1537.6	1443.2	1405.7	1400.5
45°	5644.7	3437.2	1912.6	1721.2	1682.4	1661.7	1610.0	1463.9	1405.7	1372.0	1365.6
47.5°	5770.1	3403.6	1783.3	1641.0	1625.5	1597.1	1485.8	1417.3	1363.0	1329.4	1322.9
50°	5748.1	3263.9	1652.7	1563.4	1557.0	1532.4	1395.3	1359.1	1311.3	1275.1	1269.9
52.5°	5634.3	2998.8	1519.5	1478.1	1491.0	1443.2	1330.7	1289.3	1247.9	1206.5	1197.5
55°	5662.8	2807.5	1418.6	1395.3	1418.6	1310.0	1258.2	1214.3	1175.5	1135.4	1127.6
57.5°	5786.9	2618.7	1311.3	1306.1	1330.7	1207.8	1165.1	1109.5	1053.9	1021.6	1021.6
60°	4859.7	1908.7	1122.5	1135.4	1191.0	1125.1	1087.5	1030.6	969.9	941.4	941.4
62.5°	2873.4	1197.5	931.1	916.9	951.8	993.1	1013.8	967.3	894.9	857.4	858.7
65°	1266.0	871.6	821.2	809.5	799.2	827.6	884.5	888.4	812.1	768.1	769.4
67.5°	779.8	788.8	768.1	759.1	750.0	744.9	739.7	742.3	721.6	681.5	680.2
70°	703.5	728.1	713.8	706.1	694.4	685.4	654.3	603.9	569.0	558.6	570.3
72.5°	605.2	638.8	631.1	627.2	613.0	591.0	549.6	500.5	459.1	433.2	438.4
75°	456.5	483.6	487.5	488.8	473.3	452.6	409.9	368.6	332.3	305.2	311.7
77.5°	262.5	278.0	281.9	285.8	274.2	266.4	237.9	208.2	188.8	160.4	168.1
80°	146.1	152.6	152.6	153.9	147.4	138.4	119.0	102.2	93.1	80.2	81.5
82.5°	87.9	90.5	91.8	93.1	89.2	80.2	66.0	54.3	49.1	42.7	41.4
85°	42.7	45.3	45.3	46.6	40.1	34.9	27.2	20.7	18.1	12.9	14.2
87.5°	10.3	11.6	11.6	10.3	9.1	6.5	3.9	1.3	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)