

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: P637338

Luminaire Tested: GWS-SA4C-750-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637338
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-SA4C-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17475.7 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 128.5
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

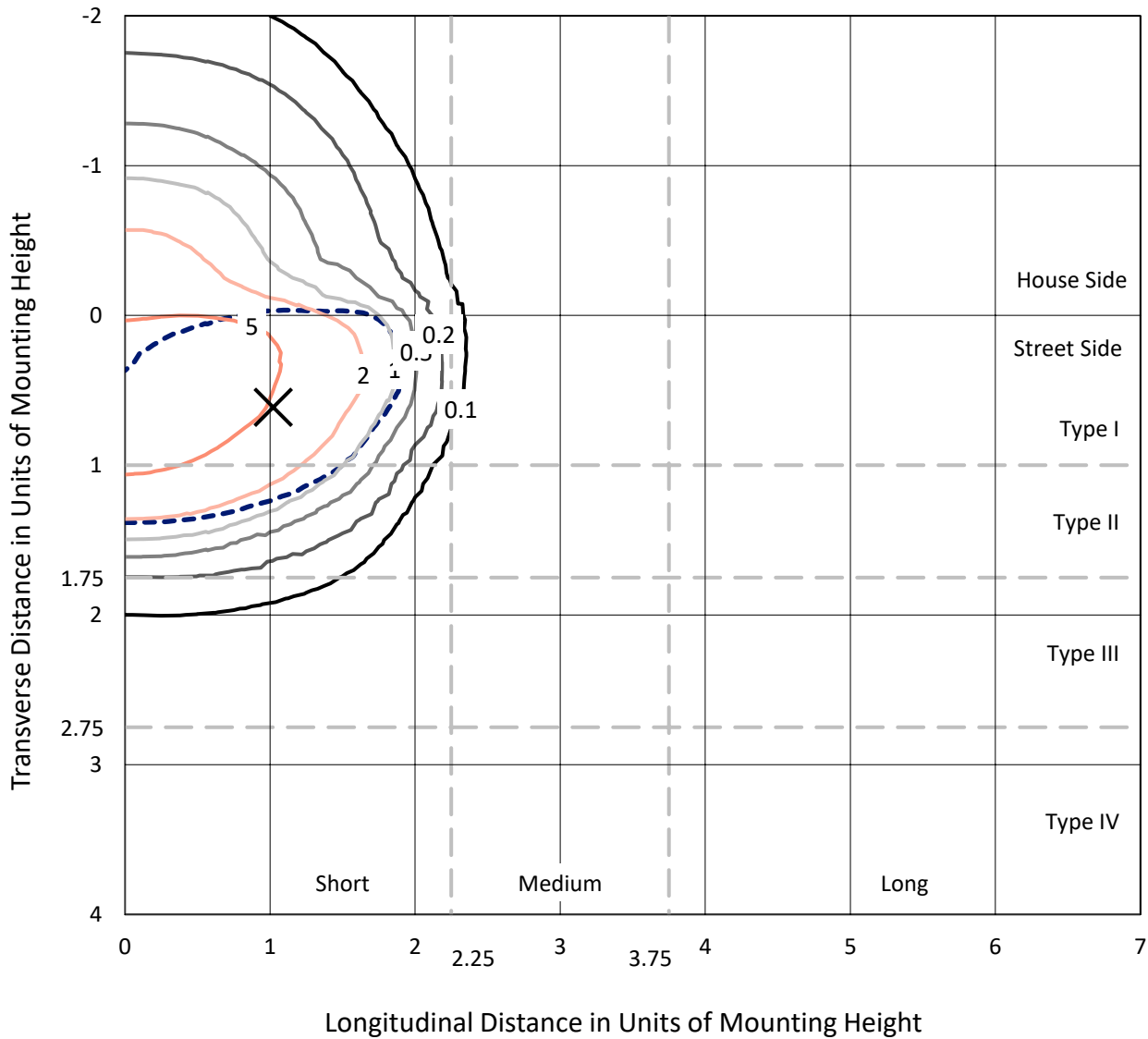


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Iso-Footcandle Lines of Horizontal Illumination

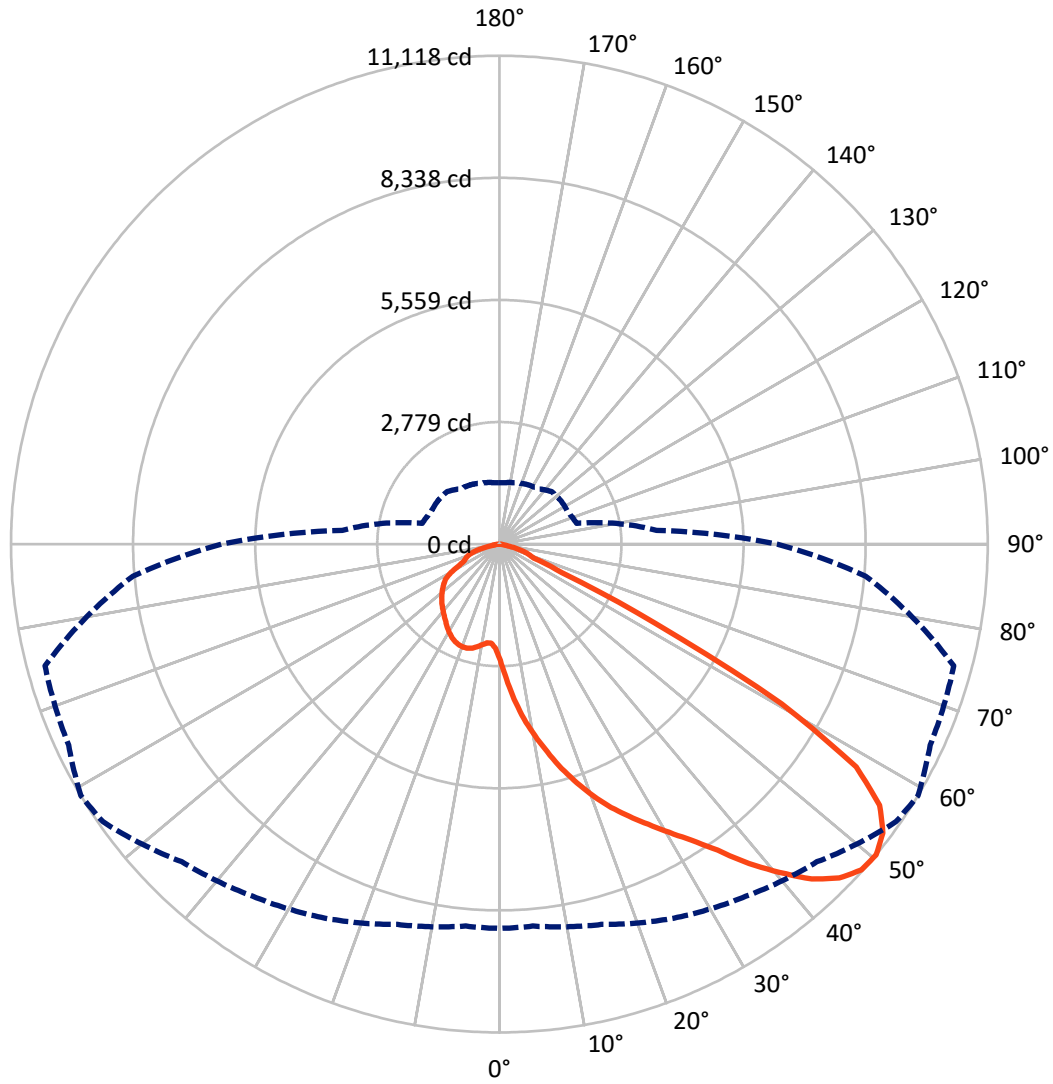
✕ Max cd
 - - - 1/2 Max cd



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 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4019.7	0.0	4019.7
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	13456.0	0.0	13456.0
	% Fixture	77.0	0.0	77.0
Total	Lumens	17475.7	0.0	17475.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.0	1.7
10°-20°	1078.3	6.2
20°-30°	2041.8	11.7
30°-40°	3385.9	19.4
40°-50°	4625.3	26.5
50°-60°	4198.6	24.0
60°-70°	1398.2	8.0
70°-80°	407.8	2.3
80°-90°	42.8	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°	17475.7	100.0
0°-180°	17475.7	100.0

Coefficient of Utilization



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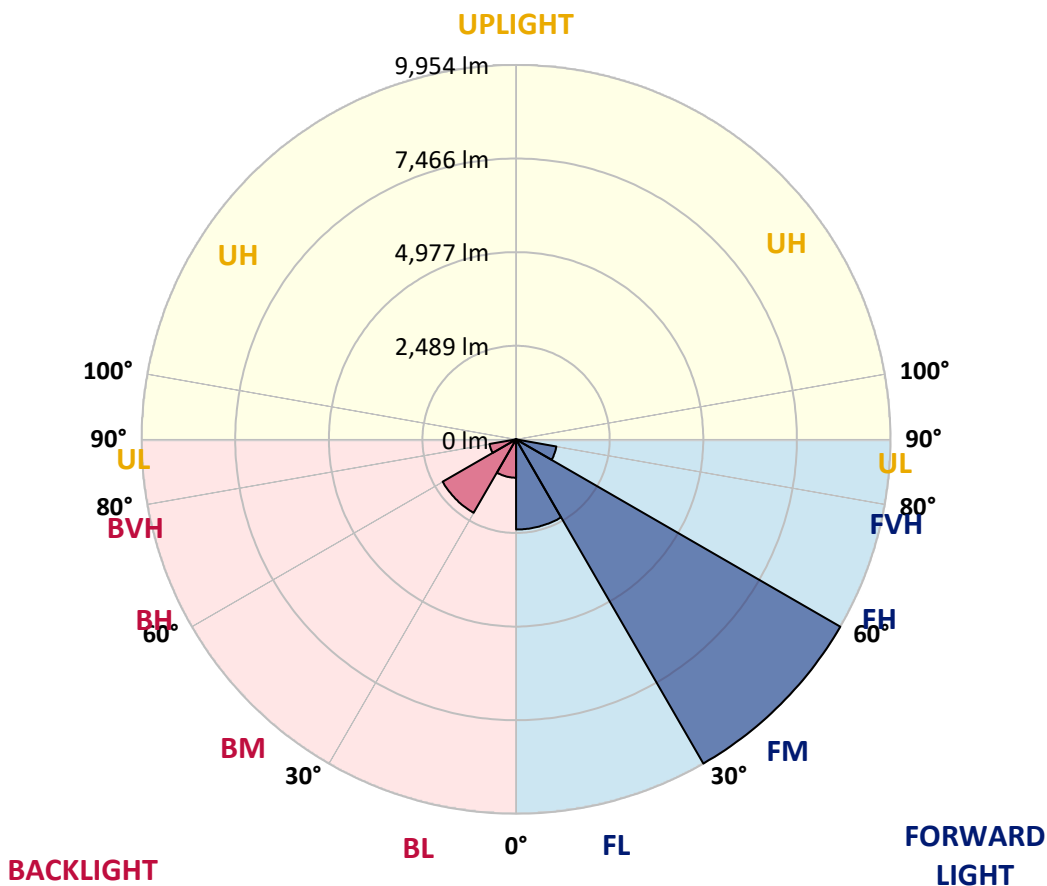
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2396.3	13.7			
FM (30°-60°)	9954.4	57.0			
FH (60°-80°)	1088.5	6.2			G1/1800
FVH (80°-90°)	16.7	0.1			G1/100
BL (0°-30°)	1020.7	5.8	B3/2500		
BM (30°-60°)	2255.5	12.9	B2/2500		
BH (60°-80°)	717.5	4.1	B2/1000		G2/1000
BVH (80°-90°)	26.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2647.7	2647.7	2647.7	2647.7	2647.7	2647.7	2647.7	2647.7	2647.7	2647.7	2647.7
2.5°	3430.6	3456.2	3416.4	3419.2	3319.6	3274.0	3145.9	3070.5	3020.6	2881.1	2754.5
5°	4122.4	4092.5	4061.2	4042.7	3955.9	3833.5	3674.0	3547.3	3430.6	3157.3	2894.0
7.5°	4546.6	4531.0	4509.6	4498.2	4412.8	4284.7	4125.3	4017.1	3847.7	3477.6	3063.4
10°	4906.8	4888.3	4875.5	4884.0	4814.2	4731.7	4558.0	4434.2	4243.4	3816.4	3268.3
12.5°	5185.8	5195.7	5200.0	5245.6	5215.7	5165.8	4986.5	4855.5	4643.4	4173.7	3508.9
15°	5406.4	5403.6	5453.4	5540.2	5588.6	5557.3	5413.5	5303.9	5044.8	4525.3	3768.0
17.5°	5457.7	5460.5	5538.8	5691.1	5849.1	5926.0	5844.9	5713.9	5457.7	4872.6	4037.0
20°	5498.9	5504.6	5585.8	5759.4	5990.0	6205.0	6217.8	6123.9	5903.2	5248.4	4310.3
22.5°	5759.4	5772.3	5793.6	5903.2	6111.0	6382.9	6532.4	6512.5	6327.4	5642.7	4605.0
25°	6444.1	6405.7	6301.8	6270.5	6350.2	6570.8	6825.6	6864.1	6773.0	6076.9	4922.4
27.5°	7289.7	7248.4	7094.7	6932.4	6760.2	6837.0	7108.9	7224.2	7225.6	6555.2	5241.3
30°	8057.0	8024.2	7898.9	7666.9	7369.4	7258.4	7459.1	7614.3	7706.8	7107.5	5604.3
32.5°	8713.2	8683.3	8513.9	8324.6	8034.2	7810.7	7883.3	8032.8	8249.1	7822.1	6055.5
35°	9265.5	9235.6	9073.3	8882.6	8613.5	8479.7	8454.1	8556.6	8837.0	8568.0	6573.7
37.5°	9713.9	9684.0	9514.6	9335.2	9130.3	9138.8	9177.2	9227.1	9387.9	9366.6	7127.4
40°	10004.3	9973.0	9852.0	9723.9	9594.3	9696.8	9887.6	9827.8	9913.2	10011.4	7637.0
42.5°	10133.8	10094.0	10024.2	9995.7	9955.9	10115.3	10482.6	10422.8	10320.3	10441.3	8015.7
45°	10004.3	9970.1	9968.7	10055.5	10148.1	10353.0	10894.0	10845.6	10586.5	10649.1	8242.0
47.5°	9607.1	9577.2	9658.4	9886.1	10113.9	10412.8	11077.6	11086.1	10775.8	10736.0	8388.6
50°	8748.8	8728.8	8963.7	9395.0	9787.9	10226.4	11019.2	11117.5	10821.4	10708.9	8370.1
52.5°	7003.6	7096.1	7607.1	8327.4	9090.4	9899.0	10802.9	10931.0	10602.2	10531.0	8270.5
55°	4794.3	4837.0	5348.1	6400.0	7610.0	9190.1	10306.1	10503.9	10343.1	10501.1	8374.4
57.5°	2482.6	2516.7	2919.6	3853.4	5161.6	7262.6	8926.7	9575.8	9820.7	10652.0	8697.5
60°	1019.2	1047.7	1214.2	1665.5	2603.6	4229.2	6424.2	7386.5	7961.6	9728.1	7723.9
62.5°	740.2	754.4	834.2	993.6	1363.7	2072.6	3635.6	3990.0	4394.3	6096.8	4903.9
65°	623.5	639.1	703.2	800.0	995.0	1271.2	1553.0	1561.6	1721.0	2484.0	1817.8
67.5°	522.4	536.7	593.6	676.2	804.3	902.5	834.2	835.6	832.7	901.1	871.2
70°	407.1	418.5	475.4	563.7	630.6	579.4	652.0	721.7	691.8	718.9	760.1
72.5°	297.5	310.3	360.1	427.0	410.0	412.8	528.1	599.3	582.2	612.1	650.5
75°	214.9	223.5	249.1	213.5	224.9	271.9	371.5	410.0	427.0	452.7	486.8
77.5°	69.8	69.8	78.3	98.2	122.4	150.9	189.3	205.0	230.6	259.1	283.3
80°	35.6	37.0	44.1	54.1	68.3	86.8	111.0	118.1	131.0	146.6	156.6
82.5°	17.1	18.5	21.4	27.0	35.6	45.6	61.2	68.3	76.9	86.8	94.0
85°	4.3	4.3	5.7	8.5	11.4	17.1	22.8	27.0	34.2	41.3	45.6
87.5°	0.0	0.0	0.0	0.0	0.0	1.4	4.3	5.7	7.1	8.5	11.4
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°	2647.7	2647.7	2647.7	2647.7	2647.7	2647.7	2647.7	2647.7	2647.7	2647.7	2647.7
2.5°	2697.5	2617.8	2515.3	2428.5	2348.8	2287.5	2234.9	2209.3	2185.1	2168.0	2173.7
5°	2771.5	2634.9	2444.1	2311.7	2230.6	2189.3	2160.9	2146.6	2143.8	2132.4	2128.1
7.5°	2879.7	2684.7	2429.9	2296.1	2242.0	2220.6	2205.0	2196.4	2200.7	2189.3	2185.1
10°	3013.5	2767.3	2465.5	2347.3	2300.4	2284.7	2267.6	2256.2	2250.5	2233.5	2230.6
12.5°	3180.1	2869.8	2529.5	2412.8	2365.8	2338.8	2316.0	2296.1	2283.3	2261.9	2256.2
15°	3359.4	2983.6	2605.0	2476.9	2421.4	2381.5	2344.5	2314.6	2291.8	2263.3	2259.1
17.5°	3554.5	3103.2	2667.6	2521.0	2449.8	2397.2	2343.1	2298.9	2267.6	2230.6	2226.3
20°	3758.0	3224.2	2714.6	2542.4	2451.3	2380.1	2307.5	2249.1	2209.3	2172.2	2169.4
22.5°	3968.7	3335.2	2743.1	2536.7	2428.5	2340.2	2253.4	2187.9	2140.9	2096.8	2094.0
25°	4180.8	3442.0	2750.2	2513.9	2382.9	2280.4	2193.6	2116.7	2064.1	2014.2	2008.5
27.5°	4395.7	3531.7	2733.1	2468.3	2321.7	2210.7	2123.8	2048.4	1994.3	1944.5	1935.9
30°	4624.9	3608.5	2696.1	2408.5	2250.5	2136.7	2051.2	1994.3	1943.1	1893.2	1884.7
32.5°	4869.8	3675.5	2643.4	2335.9	2168.0	2062.6	2000.0	1948.8	1897.5	1853.4	1844.8
35°	5161.6	3719.6	2565.1	2242.0	2091.1	2008.5	1965.8	1906.1	1843.4	1795.0	1790.8
37.5°	5463.4	3753.7	2471.2	2152.3	2024.2	1977.2	1941.6	1860.5	1782.2	1723.8	1716.7
40°	5755.2	3782.2	2354.5	2068.3	1963.0	1954.5	1906.1	1805.0	1669.8	1604.3	1598.6
42.5°	6027.1	3790.8	2232.0	1978.7	1907.5	1903.2	1849.1	1692.5	1588.6	1547.3	1541.6
45°	6213.5	3783.6	2105.3	1894.7	1852.0	1829.2	1772.2	1611.4	1547.3	1510.3	1503.2
47.5°	6351.6	3746.6	1963.0	1806.4	1789.3	1758.0	1635.6	1560.1	1500.4	1463.3	1456.2
50°	6327.4	3592.9	1819.2	1721.0	1713.9	1686.8	1535.9	1496.1	1443.4	1403.6	1397.9
52.5°	6202.1	3301.1	1672.6	1627.0	1641.3	1588.6	1464.8	1419.2	1373.7	1328.1	1318.2
55°	6233.5	3090.4	1561.6	1535.9	1561.6	1442.0	1385.1	1336.7	1294.0	1249.8	1241.3
57.5°	6370.1	2882.6	1443.4	1437.7	1464.8	1329.5	1282.6	1221.4	1160.1	1124.6	1124.6
60°	5349.5	2101.1	1235.6	1249.8	1311.0	1238.4	1197.2	1134.5	1067.6	1036.3	1036.3
62.5°	3163.0	1318.2	1024.9	1009.3	1047.7	1093.2	1116.0	1064.8	985.1	943.8	945.2
65°	1393.6	959.4	903.9	891.1	879.7	911.0	973.7	977.9	894.0	845.6	847.0
67.5°	858.4	868.3	845.6	835.6	825.6	819.9	814.2	817.1	794.3	750.2	748.8
70°	774.4	801.4	785.8	777.2	764.4	754.4	720.3	664.8	626.3	614.9	627.8
72.5°	666.2	703.2	694.7	690.4	674.7	650.5	605.0	550.9	505.3	476.9	482.6
75°	502.5	532.4	536.7	538.1	521.0	498.2	451.2	405.7	365.8	335.9	343.1
77.5°	289.0	306.1	310.3	314.6	301.8	293.2	261.9	229.2	207.8	176.5	185.1
80°	160.9	168.0	168.0	169.4	162.3	152.3	131.0	112.5	102.5	88.3	89.7
82.5°	96.8	99.6	101.1	102.5	98.2	88.3	72.6	59.8	54.1	47.0	45.6
85°	47.0	49.8	49.8	51.2	44.1	38.4	29.9	22.8	19.9	14.2	15.7
87.5°	11.4	12.8	12.8	11.4	10.0	7.1	4.3	1.4	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)