

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: P636908

Luminaire Tested: GWS-SA4B-760-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636908
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-760-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14845.4 lumens
Efficiency: N/A
Efficacy: 157.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

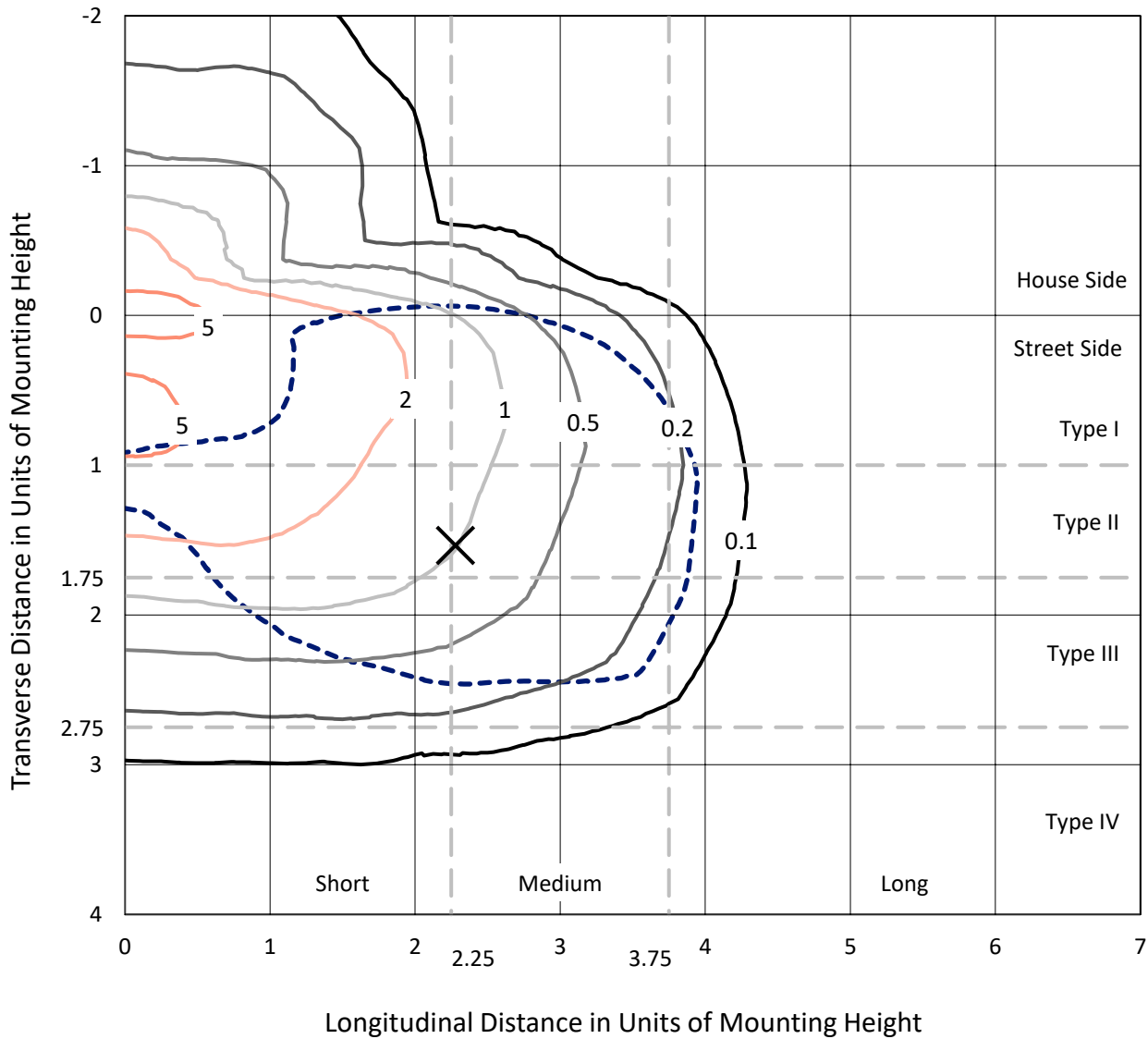
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

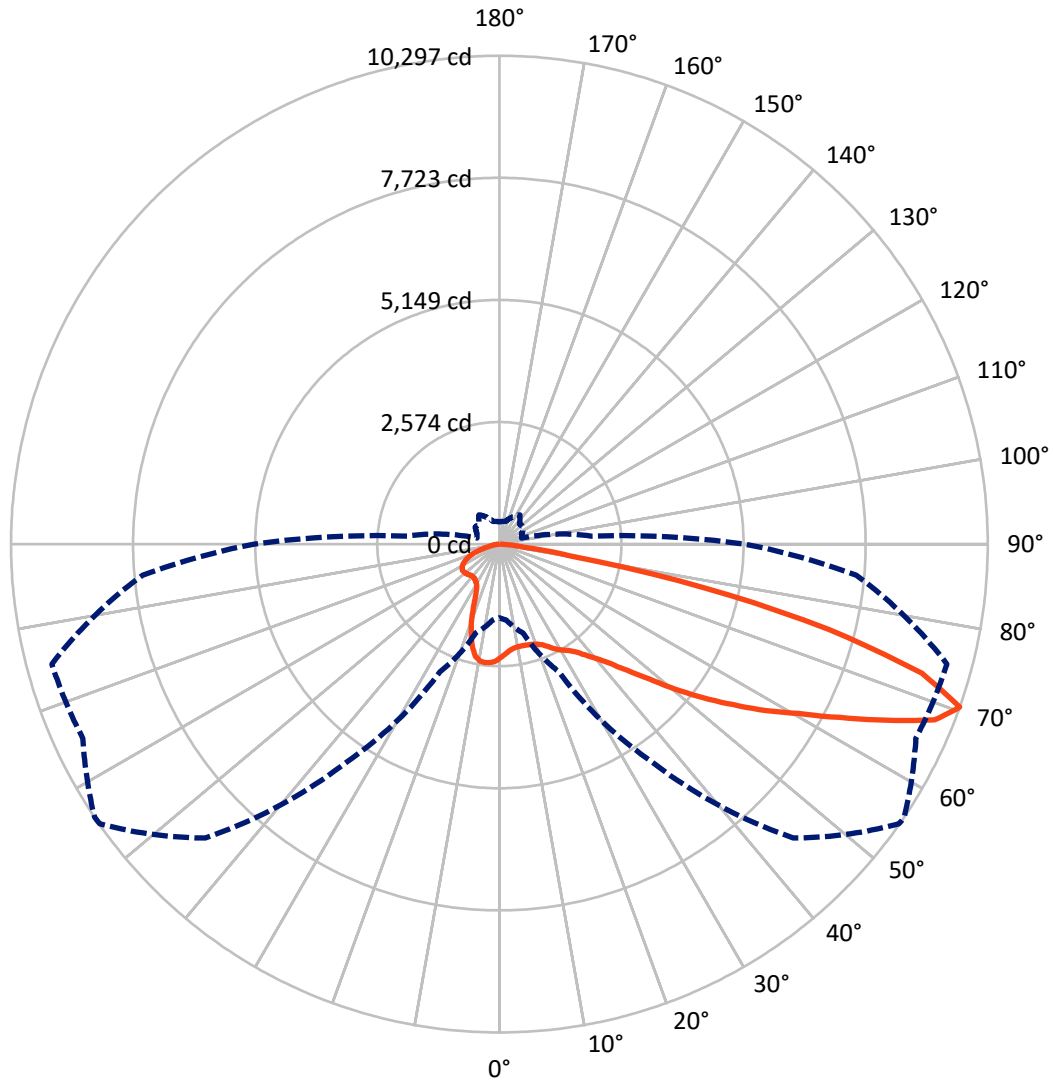
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2854.1	0.0	2854.1
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	11991.4	0.0	11991.4
	% Fixture	80.8	0.0	80.8
Total	Lumens	14845.4	0.0	14845.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.7	1.5
10°-20°	600.8	4.0
20°-30°	993.3	6.7
30°-40°	1485.2	10.0
40°-50°	2210.2	14.9
50°-60°	3142.2	21.2
60°-70°	3891.7	26.2
70°-80°	2148.9	14.5
80°-90°	151.3	1.0
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°	14845.4	100.0
0°-180°	14845.4	100.0

Coefficient of Utilization



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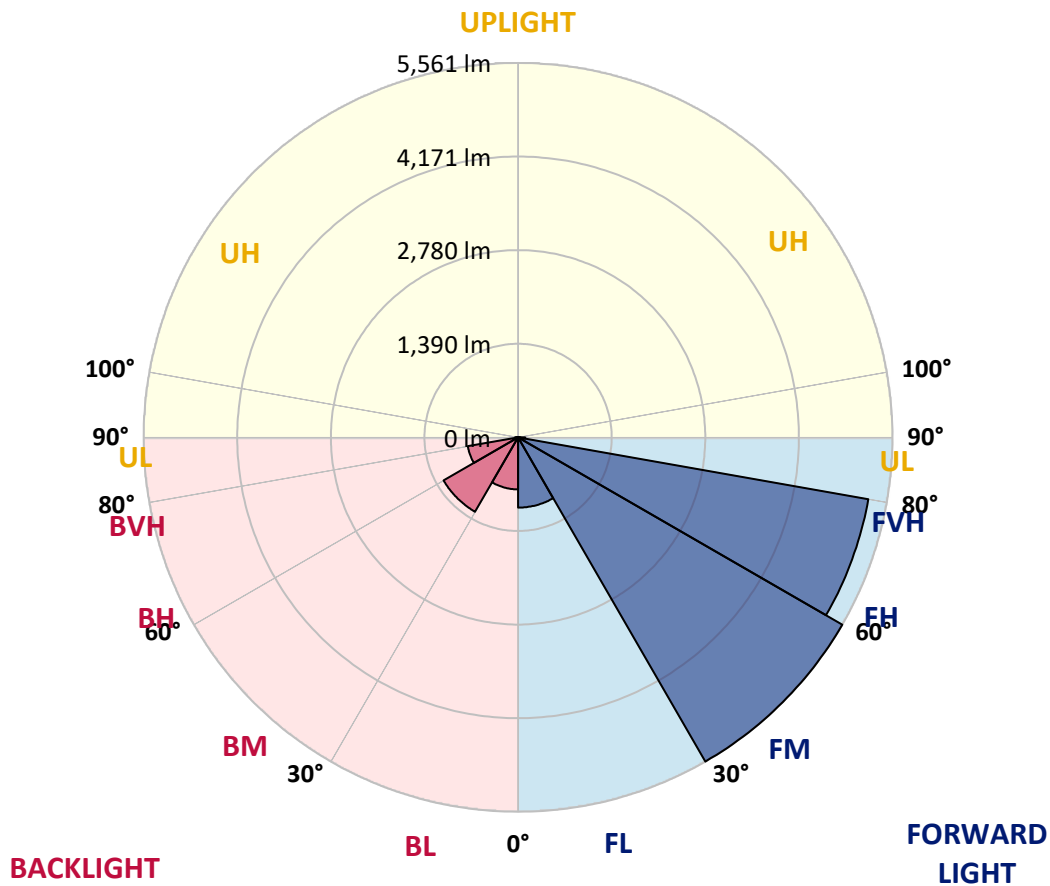
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1043.3	7.0			
FM (30°-60°)	5560.9	37.5			
FH (60°-80°)	5282.0	35.6			G3/7500
FVH (80°-90°)	105.2	0.7			G2/225
BL (0°-30°)	772.6	5.2	B2/1000		
BM (30°-60°)	1276.7	8.6	B2/2500		
BH (60°-80°)	758.6	5.1	B2/1000		G2/1000
BVH (80°-90°)	46.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2396.3	2396.3	2396.3	2396.3	2396.3	2396.3	2396.3	2396.3	2396.3	2396.3	2396.3
2.5°	2242.4	2229.8	2244.5	2251.8	2270.7	2297.9	2321.9	2323.0	2335.6	2365.9	2395.2
5°	2140.8	2134.6	2138.7	2160.7	2180.6	2215.2	2251.8	2254.9	2290.5	2350.2	2408.8
7.5°	2062.3	2054.0	2069.7	2097.9	2123.0	2161.8	2209.9	2214.1	2264.4	2354.4	2444.4
10°	1949.3	1943.0	1972.3	2010.0	2064.4	2128.3	2192.1	2197.4	2263.3	2381.6	2507.2
12.5°	1900.1	1900.1	1912.6	1948.2	2007.9	2092.7	2189.0	2197.4	2280.1	2423.5	2587.9
15°	1976.5	1981.7	1971.2	1969.2	1993.2	2073.8	2193.2	2205.7	2311.5	2466.4	2667.4
17.5°	2130.4	2135.6	2108.4	2065.5	2041.4	2091.6	2208.9	2222.5	2345.0	2513.5	2753.3
20°	2346.0	2352.3	2292.6	2226.7	2144.0	2142.9	2239.2	2251.8	2387.9	2564.8	2844.3
22.5°	2598.3	2602.5	2527.1	2422.4	2295.8	2238.2	2291.6	2304.2	2443.4	2636.0	2942.7
25°	2890.4	2903.0	2811.9	2660.1	2488.4	2369.1	2378.5	2393.1	2542.8	2731.3	3058.9
27.5°	3202.4	3218.1	3113.4	2945.9	2709.3	2513.5	2490.5	2503.1	2648.6	2789.9	3120.7
30°	3521.7	3533.2	3428.5	3236.9	2946.9	2676.8	2584.7	2592.0	2694.6	2818.2	3183.5
32.5°	3876.5	3867.1	3766.6	3545.7	3221.2	2872.6	2672.6	2670.6	2745.9	2874.7	3273.5
35°	4209.4	4223.1	4116.3	3872.4	3522.7	3114.4	2804.6	2796.2	2854.8	2966.8	3400.2
37.5°	4612.5	4608.3	4480.6	4216.8	3825.2	3345.8	2989.8	2975.2	2996.1	3110.2	3577.1
40°	4900.4	4929.7	4847.0	4601.0	4179.1	3630.5	3206.6	3174.1	3179.3	3287.2	3813.7
42.5°	5135.9	5163.1	5171.5	5014.5	4584.2	3982.3	3476.6	3444.2	3447.3	3600.2	4104.8
45°	5317.0	5353.7	5472.0	5425.9	5040.7	4388.5	3842.0	3808.5	3810.6	3980.2	4456.5
47.5°	5391.4	5431.1	5670.9	5780.8	5525.4	4874.2	4296.3	4247.1	4254.5	4441.9	4858.5
50°	5367.3	5420.7	5745.2	6054.0	5931.5	5368.3	4839.7	4805.1	4776.8	5049.0	5295.0
52.5°	5160.0	5218.6	5737.9	6227.8	6263.4	5835.2	5400.8	5380.9	5374.6	5693.9	5782.9
55°	4549.7	4648.1	5485.6	6273.9	6523.0	6274.9	6009.0	5975.5	6008.0	6384.8	6276.0
57.5°	4211.5	4284.8	4991.5	6222.6	6735.5	6693.7	6616.2	6619.3	6656.0	7135.4	6873.7
60°	4018.9	4104.8	4717.2	6082.3	6939.7	7202.4	7251.6	7251.6	7317.6	7944.7	7480.9
62.5°	3763.5	3850.4	4460.7	5812.2	7128.1	7801.2	8050.4	8047.3	8073.4	8812.5	8074.5
65°	3245.3	3325.9	3945.6	5386.1	7220.2	8460.8	8958.0	8948.6	8896.3	9585.1	8467.1
67.5°	2356.5	2432.9	3022.3	4575.9	6888.4	8992.6	9892.9	9897.1	9584.1	10071.9	8488.0
70°	1553.5	1605.9	1943.0	2972.1	5601.8	8763.3	10284.4	10297.0	9689.8	9768.3	7554.2
72.5°	969.4	1006.0	1213.3	1772.3	3310.2	6936.5	9279.4	9314.0	8717.3	8584.3	6206.9
75°	643.8	668.9	807.1	1033.3	1531.6	3754.1	7053.8	7164.7	6986.8	6729.3	4324.6
77.5°	387.3	408.3	514.0	656.4	678.4	1466.7	4117.3	4404.2	4429.3	3513.3	1811.1
80°	176.9	201.0	283.7	374.8	361.2	510.9	1452.0	1519.0	1792.2	1116.0	571.6
82.5°	104.7	115.2	188.4	186.3	153.9	248.1	522.4	536.0	455.4	408.3	243.9
85°	41.9	49.2	79.6	70.1	56.5	80.6	196.8	206.2	197.9	178.0	90.0
87.5°	0.0	0.0	0.0	0.0	1.0	2.1	17.8	18.8	27.2	49.2	27.2
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°	2396.3	2396.3	2396.3	2396.3	2396.3	2396.3	2396.3	2396.3	2396.3	2396.3	2396.3
2.5°	2414.1	2407.8	2439.2	2463.3	2473.7	2484.2	2474.8	2471.7	2471.7	2450.7	2440.2
5°	2440.2	2443.4	2486.3	2506.2	2506.2	2497.8	2472.7	2454.9	2448.6	2421.4	2414.1
7.5°	2489.4	2503.1	2542.8	2541.8	2512.5	2466.4	2403.6	2355.4	2311.5	2292.6	2281.1
10°	2570.1	2587.9	2615.1	2571.1	2489.4	2368.0	2235.1	2130.4	2067.6	2017.3	2017.3
12.5°	2662.2	2678.9	2673.7	2572.1	2403.6	2176.4	1984.9	1864.5	1776.5	1730.5	1730.5
15°	2754.3	2767.9	2711.4	2524.0	2224.6	1922.0	1712.7	1568.2	1491.8	1448.9	1448.9
17.5°	2847.5	2846.4	2727.1	2413.0	1991.1	1640.4	1435.3	1323.2	1297.1	1289.7	1288.7
20°	2937.5	2913.4	2707.2	2227.7	1720.0	1356.7	1226.9	1234.3	1273.0	1289.7	1291.8
22.5°	3039.1	2979.4	2648.6	1991.1	1412.2	1159.9	1168.3	1229.0	1285.6	1310.7	1313.8
25°	3142.7	3035.9	2550.2	1713.7	1154.7	1087.7	1152.6	1220.6	1284.5	1317.0	1320.1
27.5°	3184.6	3035.9	2382.7	1392.3	1017.6	1057.3	1128.5	1194.5	1261.5	1299.2	1306.5
30°	3219.1	3009.7	2148.2	1102.3	961.0	1028.0	1089.8	1150.5	1216.5	1262.5	1270.9
32.5°	3267.3	2986.7	1864.5	926.5	934.9	999.8	1042.7	1094.0	1153.6	1184.0	1180.9
35°	3323.8	2951.1	1522.1	842.7	912.9	975.7	1006.0	1036.4	1009.2	1008.1	1011.3
37.5°	3404.4	2919.7	1223.8	805.0	898.2	958.9	984.1	919.1	881.5	865.8	859.5
40°	3520.6	2907.1	965.2	783.1	896.1	957.9	940.1	839.6	788.3	733.9	732.8
42.5°	3667.2	2897.7	797.7	772.6	903.4	982.0	879.4	787.2	681.5	657.4	655.3
45°	3855.6	2883.1	714.0	770.5	921.2	1000.8	873.1	715.0	642.8	632.3	632.3
47.5°	4082.8	2860.0	676.3	770.5	941.1	992.4	854.2	699.3	625.0	636.5	643.8
50°	4343.4	2830.7	656.4	768.4	961.0	992.4	814.5	696.2	620.8	680.5	704.5
52.5°	4621.9	2797.2	642.8	760.0	974.6	993.5	816.6	706.6	625.0	690.9	710.8
55°	4929.7	2792.0	623.9	742.2	978.8	966.3	821.8	729.7	631.3	626.0	627.1
57.5°	5318.1	2854.8	610.3	716.1	962.1	910.8	832.3	746.4	623.9	625.0	632.3
60°	5724.3	2973.1	621.8	690.9	927.5	858.4	839.6	738.0	588.3	571.6	573.7
62.5°	6069.7	3063.1	631.3	679.4	877.3	812.4	832.3	719.2	568.4	564.3	573.7
65°	6214.2	2988.8	608.2	655.3	804.0	755.8	816.6	695.1	551.7	536.0	537.0
67.5°	6054.0	2640.2	563.2	601.9	721.3	683.6	791.4	663.7	528.7	509.8	505.6
70°	5171.5	1939.8	485.7	517.2	620.8	598.8	752.7	622.9	492.0	478.4	469.0
72.5°	4167.6	1373.5	403.0	411.4	486.8	504.6	685.7	571.6	450.2	411.4	397.8
75°	2900.9	862.6	336.0	327.7	351.7	385.2	534.9	474.2	388.4	347.6	335.0
77.5°	1247.9	442.8	262.8	258.6	234.5	267.0	410.4	395.7	325.6	278.5	271.1
80°	417.7	256.5	189.5	182.2	156.0	187.4	288.9	316.2	255.4	206.2	193.7
82.5°	209.4	148.7	120.4	108.9	104.7	118.3	170.6	196.8	176.9	142.4	120.4
85°	102.6	84.8	66.0	64.9	54.4	51.3	71.2	83.7	79.6	58.6	55.5
87.5°	37.7	33.5	20.9	16.7	10.5	7.3	4.2	4.2	3.1	3.1	3.1
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)