

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: P633333

Luminaire Tested: GWS-SA2E-740-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633333
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-SA2E-740-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14833.2 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

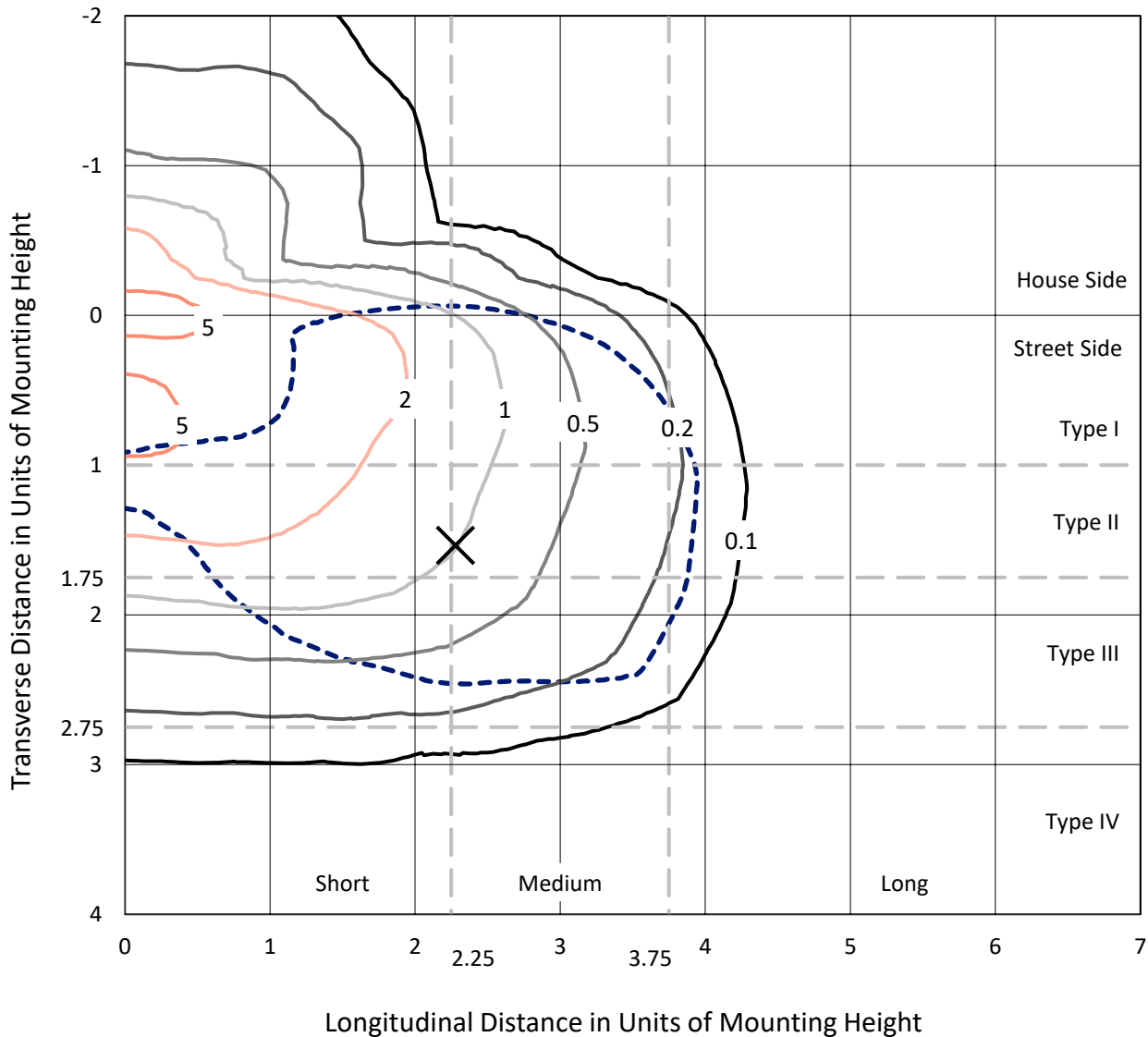
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

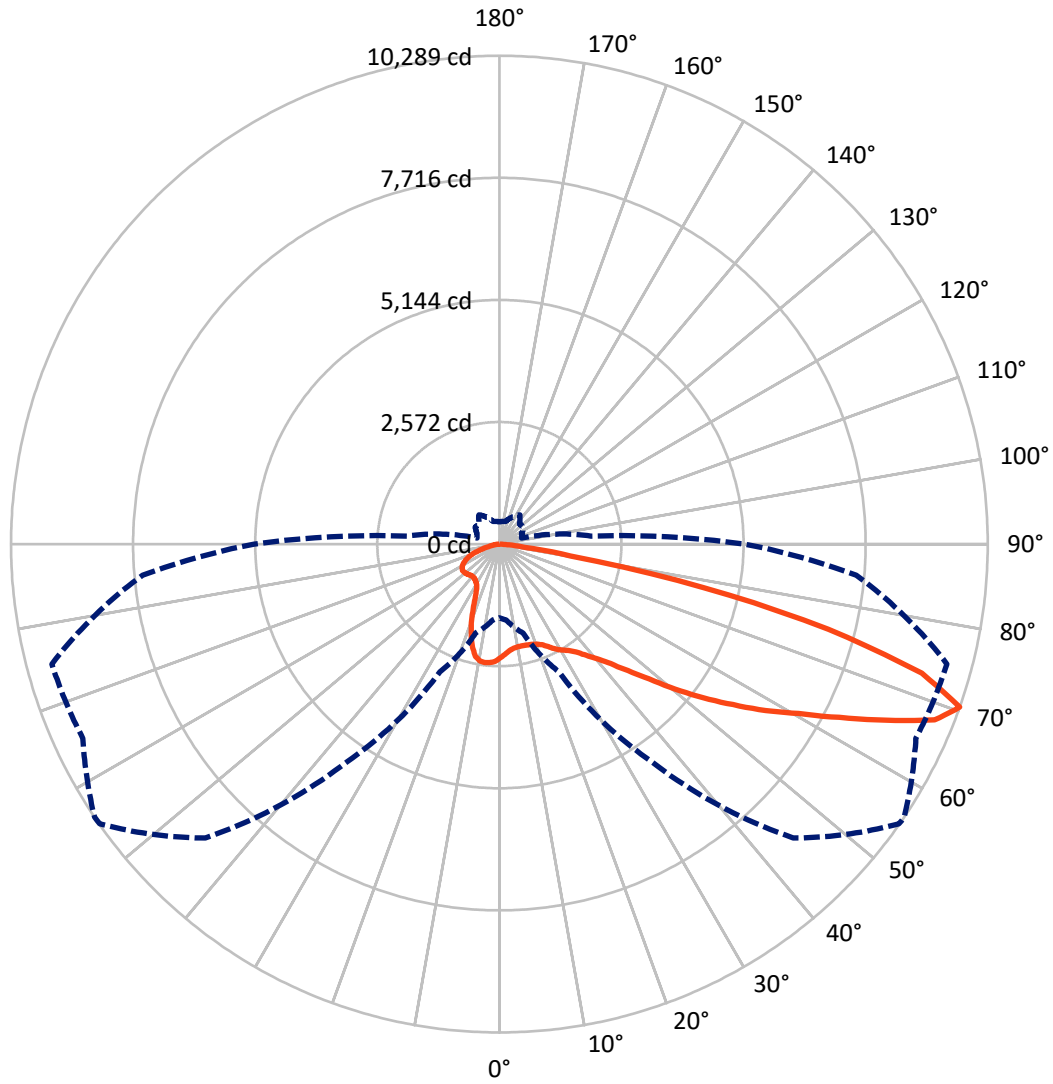
✕ Max cd
 - - - 1/2 Max cd



Based on 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	2851.7	0.0	2851.7
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	11981.5	0.0	11981.5
	% Fixture	80.8	0.0	80.8
Total	Lumens	14833.2	0.0	14833.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.6	1.5
10°-20°	600.3	4.0
20°-30°	992.5	6.7
30°-40°	1484.0	10.0
40°-50°	2208.3	14.9
50°-60°	3139.6	21.2
60°-70°	3888.5	26.2
70°-80°	2147.1	14.5
80°-90°	151.2	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°	14833.2	100.0
0°-180°	14833.2	100.0

Coefficient of Utilization



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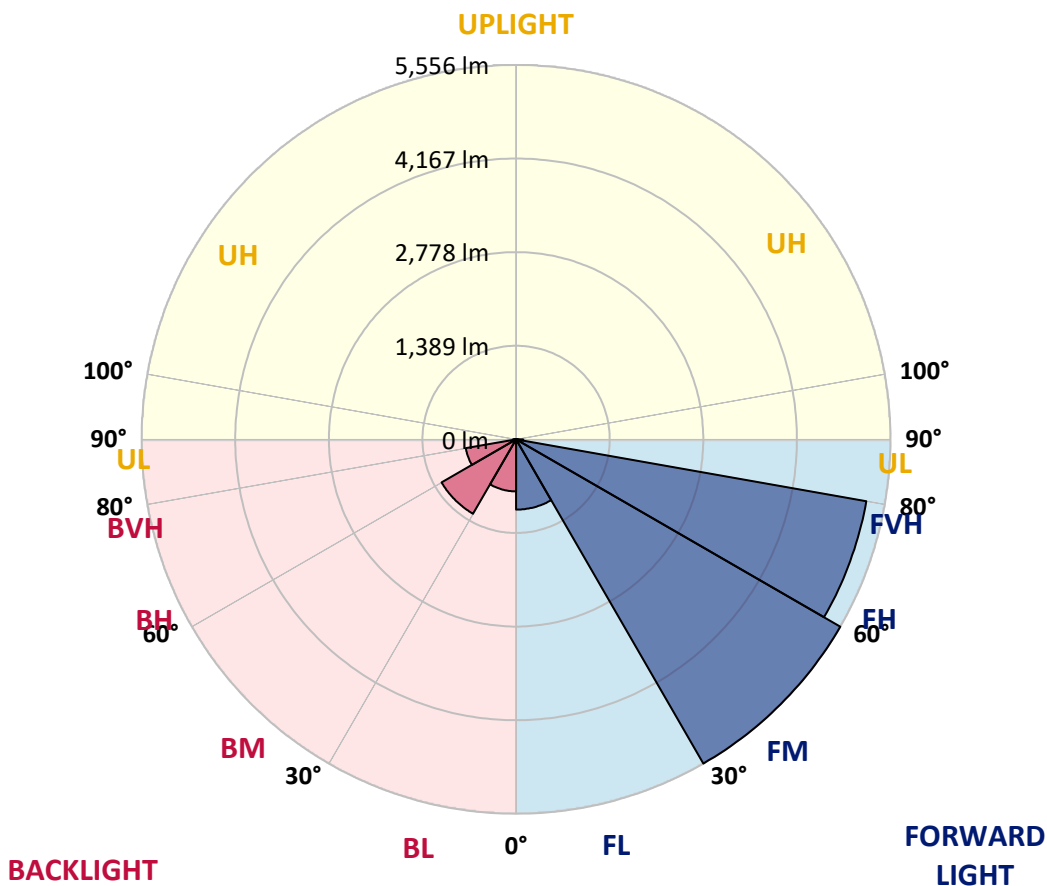
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1042.5	7.0			
FM (30°-60°)	5556.3	37.5			
FH (60°-80°)	5277.7	35.6			G3/7500
FVH (80°-90°)	105.1	0.7			G2/225
BL (0°-30°)	772.0	5.2	B2/1000		
BM (30°-60°)	1275.6	8.6	B2/2500		
BH (60°-80°)	758.0	5.1	B2/1000		G2/1000
BVH (80°-90°)	46.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2394.3	2394.3	2394.3	2394.3	2394.3	2394.3	2394.3	2394.3	2394.3	2394.3	2394.3
2.5°	2240.5	2228.0	2242.6	2250.0	2268.8	2296.0	2320.0	2321.1	2333.6	2364.0	2393.3
5°	2139.1	2132.8	2137.0	2159.0	2178.8	2213.3	2250.0	2253.1	2288.7	2348.3	2406.9
7.5°	2060.6	2052.3	2068.0	2096.2	2121.3	2160.0	2208.1	2212.3	2262.5	2352.5	2442.4
10°	1947.7	1941.4	1970.7	2008.3	2062.7	2126.5	2190.3	2195.6	2261.5	2379.7	2505.2
12.5°	1898.5	1898.5	1911.1	1946.6	2006.2	2091.0	2187.2	2195.6	2278.2	2421.5	2585.7
15°	1974.9	1980.1	1969.6	1967.5	1991.6	2072.1	2191.4	2203.9	2309.6	2464.4	2665.2
17.5°	2128.6	2133.9	2106.7	2063.8	2039.7	2089.9	2207.1	2220.7	2343.1	2511.5	2751.0
20°	2344.1	2350.4	2290.8	2224.9	2142.2	2141.2	2237.4	2250.0	2385.9	2562.7	2842.0
22.5°	2596.2	2600.4	2525.1	2420.5	2293.9	2236.4	2289.7	2302.3	2441.4	2633.8	2940.3
25°	2888.0	2900.6	2809.6	2657.9	2486.4	2367.1	2376.5	2391.2	2540.7	2729.0	3056.4
27.5°	3199.7	3215.4	3110.8	2943.5	2707.1	2511.5	2488.4	2501.0	2646.4	2787.6	3118.1
30°	3518.8	3530.3	3425.7	3234.2	2944.5	2674.6	2582.6	2589.9	2692.4	2815.8	3180.9
32.5°	3873.4	3863.9	3763.5	3542.8	3218.6	2870.2	2670.5	2668.4	2743.7	2872.3	3270.9
35°	4206.0	4219.6	4112.9	3869.2	3519.8	3111.9	2802.2	2793.9	2852.5	2964.4	3397.4
37.5°	4608.7	4604.5	4476.9	4213.3	3822.1	3343.0	2987.4	2972.7	2993.7	3107.7	3574.2
40°	4896.4	4925.6	4843.0	4597.2	4175.7	3627.5	3203.9	3171.5	3176.7	3284.5	3810.6
42.5°	5131.7	5158.9	5167.3	5010.4	4580.5	3979.0	3473.8	3441.4	3444.5	3597.2	4101.4
45°	5312.7	5349.3	5467.5	5421.4	5036.5	4384.9	3838.8	3805.4	3807.5	3976.9	4452.8
47.5°	5386.9	5426.7	5666.2	5776.0	5520.8	4870.2	4292.8	4243.6	4251.0	4438.2	4854.5
50°	5362.9	5416.2	5740.5	6049.0	5926.7	5363.9	4835.7	4801.2	4772.9	5044.9	5290.7
52.5°	5155.8	5214.3	5733.2	6222.7	6258.3	5830.4	5396.3	5376.5	5370.2	5689.2	5778.1
55°	4545.9	4644.3	5481.1	6268.7	6517.7	6269.8	6004.1	5970.6	6003.0	6379.6	6270.8
57.5°	4208.1	4281.3	4987.4	6217.5	6730.0	6688.2	6610.8	6613.9	6650.5	7129.6	6868.1
60°	4015.6	4101.4	4713.3	6077.3	6934.0	7196.5	7245.7	7245.7	7311.6	7938.1	7474.8
62.5°	3760.4	3847.2	4457.0	5807.4	7122.3	7794.8	8043.8	8040.6	8066.8	8805.3	8067.8
65°	3242.6	3323.2	3942.4	5381.7	7214.3	8453.8	8950.7	8941.3	8889.0	9577.2	8460.1
67.5°	2354.6	2430.9	3019.8	4572.1	6882.7	8985.2	9884.8	9888.9	9576.2	10063.6	8481.0
70°	1552.3	1604.6	1941.4	2969.6	5597.2	8756.1	10276.0	10288.5	9681.8	9760.3	7548.0
72.5°	968.6	1005.2	1212.3	1770.9	3307.5	6930.8	9271.8	9306.3	8710.1	8577.2	6201.8
75°	643.3	668.4	806.5	1032.4	1530.3	3751.0	7048.0	7158.9	6981.0	6723.7	4321.0
77.5°	387.0	407.9	513.6	655.8	677.8	1465.5	4113.9	4400.5	4425.6	3510.4	1809.6
80°	176.8	200.8	283.5	374.5	360.9	510.5	1450.8	1517.8	1790.8	1115.0	571.1
82.5°	104.6	115.1	188.3	186.2	153.8	247.9	522.0	535.6	455.0	407.9	243.7
85°	41.8	49.2	79.5	70.1	56.5	80.5	196.6	206.1	197.7	177.8	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°	2394.3	2394.3	2394.3	2394.3	2394.3	2394.3	2394.3	2394.3	2394.3	2394.3	2394.3
2.5°	2412.1	2405.8	2437.2	2461.3	2471.7	2482.2	2472.8	2469.6	2469.6	2448.7	2438.2
5°	2438.2	2441.4	2484.3	2504.1	2504.1	2495.8	2470.7	2452.9	2446.6	2419.4	2412.1
7.5°	2487.4	2501.0	2540.7	2539.7	2510.4	2464.4	2401.6	2353.5	2309.6	2290.8	2279.2
10°	2567.9	2585.7	2612.9	2569.0	2487.4	2366.1	2233.2	2128.6	2065.9	2015.7	2015.7
12.5°	2660.0	2676.7	2671.5	2570.0	2401.6	2174.6	1983.2	1862.9	1775.1	1729.0	1729.0
15°	2752.0	2765.6	2709.2	2521.9	2222.8	1920.5	1711.3	1566.9	1490.6	1447.7	1447.7
17.5°	2845.1	2844.1	2724.8	2411.0	1989.5	1639.1	1434.1	1322.2	1296.0	1288.7	1287.6
20°	2935.1	2911.0	2705.0	2225.9	1718.6	1355.6	1225.9	1233.2	1271.9	1288.7	1290.8
22.5°	3036.6	2976.9	2646.4	1989.5	1411.1	1159.0	1167.3	1228.0	1284.5	1309.6	1312.7
25°	3140.1	3033.4	2548.1	1712.3	1153.7	1086.8	1151.7	1219.6	1283.4	1315.9	1319.0
27.5°	3181.9	3033.4	2380.7	1391.2	1016.7	1056.5	1127.6	1193.5	1260.4	1298.1	1305.4
30°	3216.5	3007.3	2146.4	1101.4	960.2	1027.2	1088.9	1149.6	1215.5	1261.5	1269.9
32.5°	3264.6	2984.3	1862.9	925.7	934.1	998.9	1041.8	1093.1	1152.7	1183.0	1179.9
35°	3321.1	2948.7	1520.9	842.0	912.1	974.9	1005.2	1035.5	1008.3	1007.3	1010.4
37.5°	3401.6	2917.3	1222.8	804.4	897.5	958.1	983.2	918.4	880.7	865.0	858.8
40°	3517.7	2904.8	964.4	782.4	895.4	957.1	939.3	838.9	787.6	733.2	732.2
42.5°	3664.2	2895.3	797.1	772.0	902.7	981.2	878.6	786.6	680.9	656.9	654.8
45°	3852.4	2880.7	713.4	769.9	920.5	1000.0	872.4	714.4	642.2	631.8	631.8
47.5°	4079.4	2857.7	675.7	769.9	940.4	991.6	853.5	698.7	624.5	636.0	643.3
50°	4339.9	2828.4	655.8	767.8	960.2	991.6	813.8	695.6	620.3	679.9	704.0
52.5°	4618.1	2794.9	642.2	759.4	973.8	992.7	815.9	706.1	624.5	690.4	710.2
55°	4925.6	2789.7	623.4	741.6	978.0	965.5	821.1	729.1	630.7	625.5	626.6
57.5°	5313.7	2852.5	609.8	715.5	961.3	910.0	831.6	745.8	623.4	624.5	631.8
60°	5719.6	2970.7	621.3	690.4	926.8	857.7	838.9	737.4	587.9	571.1	573.2
62.5°	6064.7	3060.6	630.7	678.9	876.6	811.7	831.6	718.6	568.0	563.8	573.2
65°	6209.1	2986.3	607.7	654.8	803.3	755.2	815.9	694.5	551.2	535.6	536.6
67.5°	6049.0	2638.0	562.8	601.5	720.7	683.0	790.8	663.2	528.2	509.4	505.2
70°	5167.3	1938.2	485.3	516.7	620.3	598.3	752.1	622.4	491.6	478.0	468.6
72.5°	4164.1	1372.4	402.7	411.1	486.4	504.2	685.1	571.1	449.8	411.1	397.5
75°	2898.5	861.9	335.8	327.4	351.5	384.9	534.5	473.8	388.1	347.3	334.7
77.5°	1246.8	442.5	262.5	258.4	234.3	266.7	410.0	395.4	325.3	278.2	270.9
80°	417.4	256.3	189.3	182.0	155.9	187.2	288.7	315.9	255.2	206.1	193.5
82.5°	209.2	148.5	120.3	108.8	104.6	118.2	170.5	196.6	176.8	142.3	120.3
85°	102.5	84.7	65.9	64.9	54.4	51.3	71.1	83.7	79.5	58.6	55.4
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)