

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: P633388

Luminaire Tested: GWS-SA2E-750-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633388
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-750-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15173.1 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

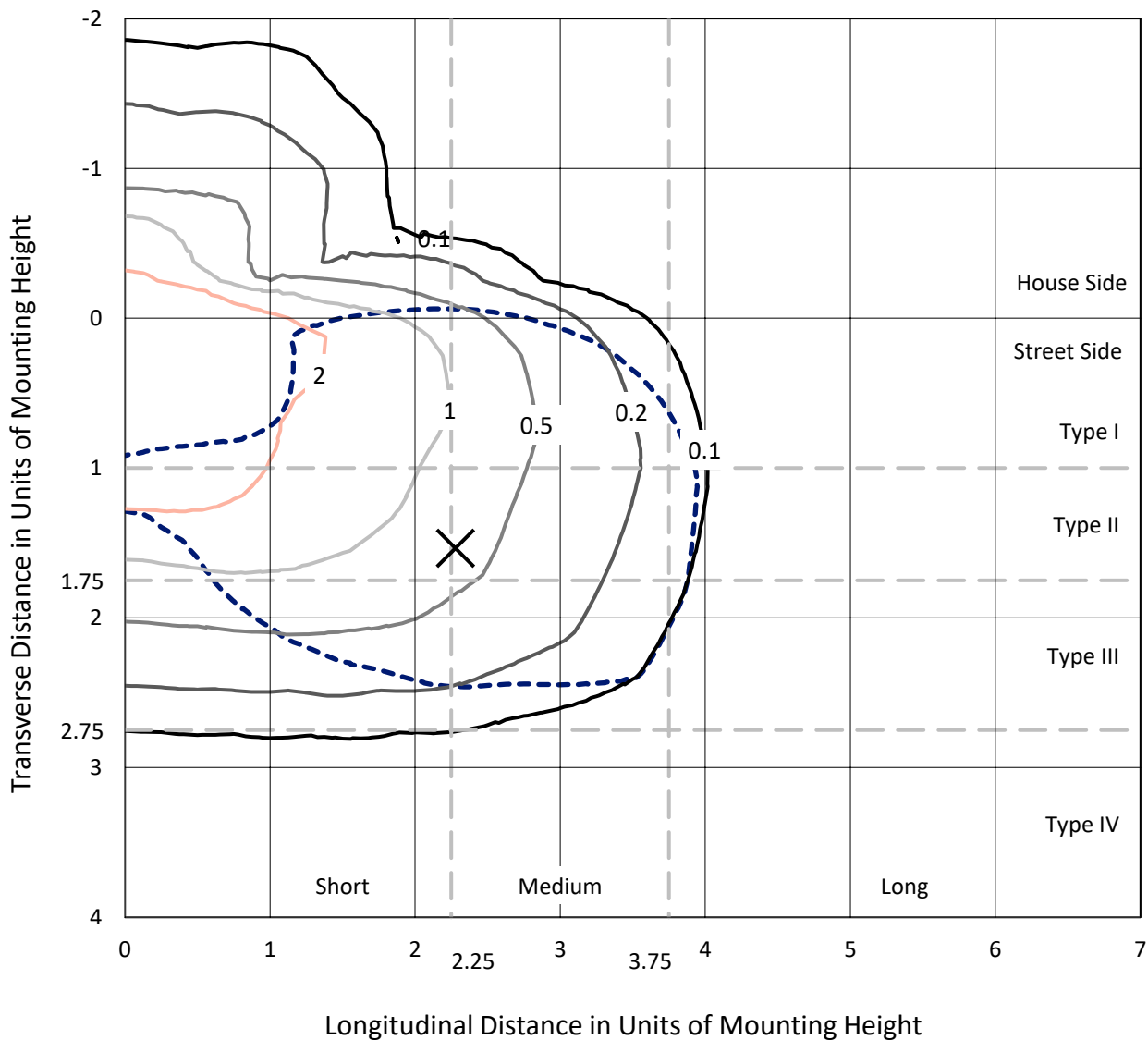
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

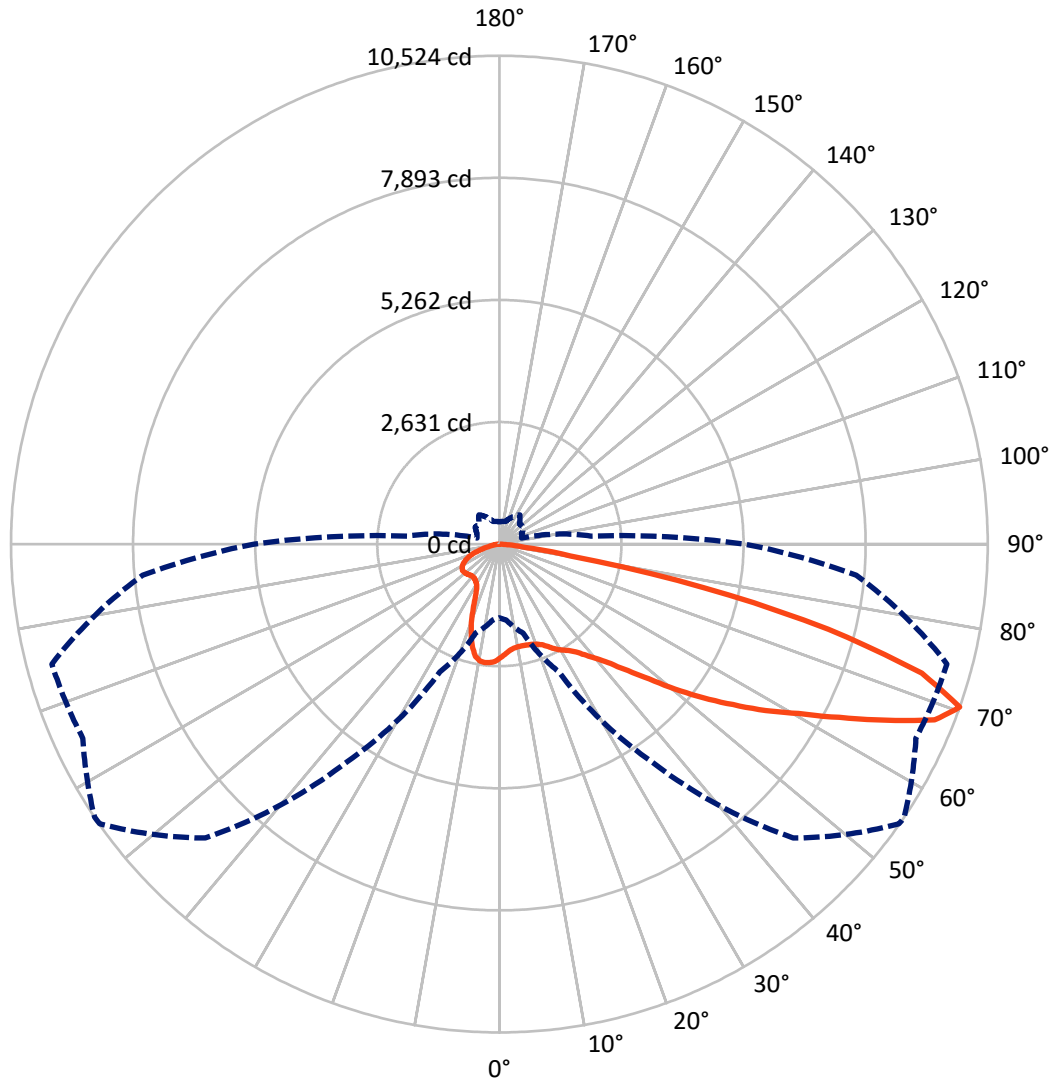
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	2917.0	0.0	2917.0
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	12256.0	0.0	12256.0
	% Fixture	80.8	0.0	80.8
Total	Lumens	15173.1	0.0	15173.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.6	1.5
10°-20°	614.1	4.0
20°-30°	1015.3	6.7
30°-40°	1518.0	10.0
40°-50°	2258.9	14.9
50°-60°	3211.6	21.2
60°-70°	3977.6	26.2
70°-80°	2196.3	14.5
80°-90°	154.7	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°	15173.1	100.0
0°-180°	15173.1	100.0

Coefficient of Utilization



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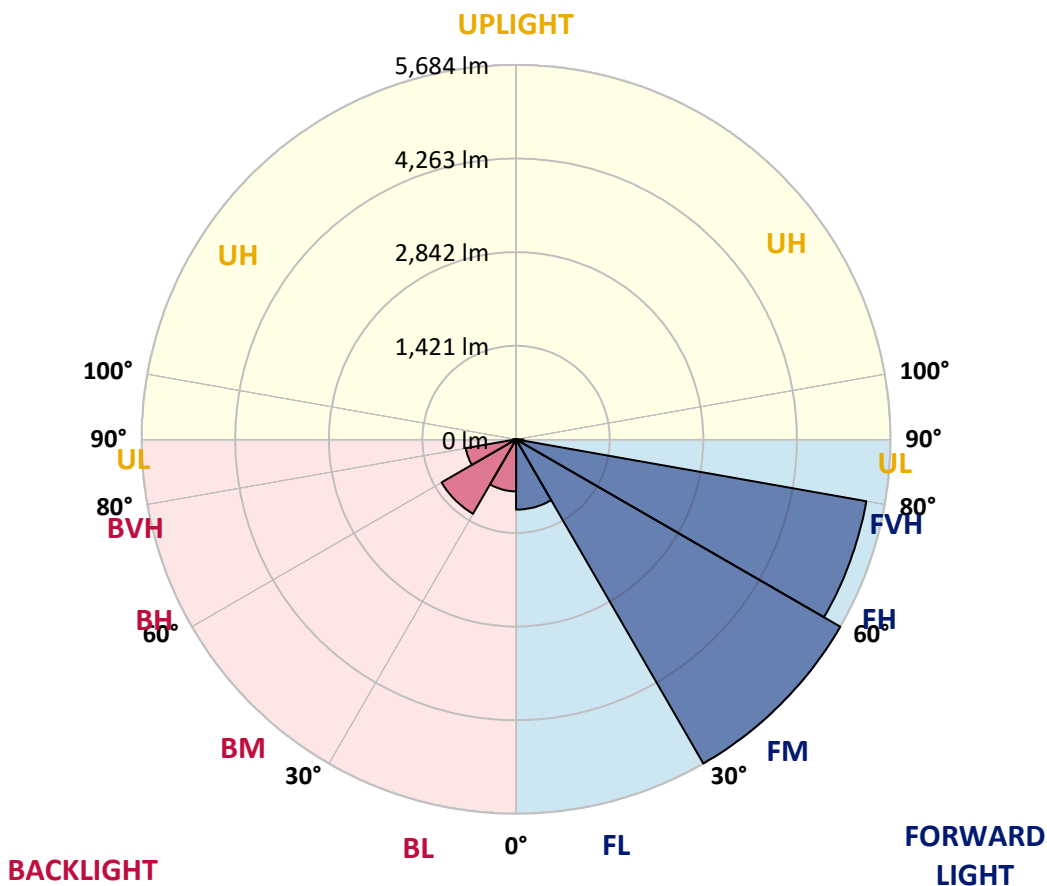
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1066.3	7.0			
FM (30°-60°)	5683.6	37.5			
FH (60°-80°)	5398.6	35.6			G3/7500
FVH (80°-90°)	107.5	0.7			G2/225
BL (0°-30°)	789.7	5.2	B2/1000		
BM (30°-60°)	1304.9	8.6	B2/2500		
BH (60°-80°)	775.3	5.1	B2/1000		G2/1000
BVH (80°-90°)	47.2	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°	2449.2	2449.2	2449.2	2449.2	2449.2	2449.2	2449.2	2449.2	2449.2	2449.2	2449.2
2.5°	2291.9	2279.0	2294.0	2301.5	2320.8	2348.6	2373.2	2374.3	2387.1	2418.1	2448.1
5°	2188.1	2181.7	2186.0	2208.4	2228.8	2264.1	2301.5	2304.7	2341.1	2402.1	2462.0
7.5°	2107.8	2099.3	2115.3	2144.2	2169.9	2209.5	2258.7	2263.0	2314.4	2406.4	2498.4
10°	1992.3	1985.9	2015.8	2054.4	2110.0	2175.3	2240.5	2245.9	2313.3	2434.2	2562.6
12.5°	1942.0	1942.0	1954.8	1991.2	2052.2	2138.9	2237.3	2245.9	2330.4	2477.0	2645.0
15°	2020.1	2025.5	2014.8	2012.6	2037.2	2119.6	2241.6	2254.4	2362.5	2520.9	2726.3
17.5°	2177.4	2182.7	2154.9	2111.1	2086.5	2137.8	2257.6	2271.6	2396.7	2569.0	2814.0
20°	2397.8	2404.2	2343.2	2275.8	2191.3	2190.2	2288.7	2301.5	2440.6	2621.4	2907.1
22.5°	2655.7	2660.0	2582.9	2475.9	2346.5	2287.6	2342.2	2355.0	2497.3	2694.2	3007.7
25°	2954.2	2967.0	2874.0	2718.8	2543.3	2421.4	2431.0	2446.0	2599.0	2791.6	3126.5
27.5°	3273.1	3289.1	3182.1	3010.9	2769.1	2569.0	2545.5	2558.3	2707.0	2851.5	3189.6
30°	3599.4	3611.2	3504.2	3308.4	3012.0	2735.9	2641.8	2649.3	2754.1	2880.4	3253.8
32.5°	3962.1	3952.5	3849.8	3624.0	3292.3	2936.0	2731.6	2729.5	2806.5	2938.2	3345.8
35°	4302.4	4316.3	4207.1	3957.8	3600.5	3183.2	2866.5	2857.9	2917.8	3032.3	3475.3
37.5°	4714.3	4710.0	4579.5	4309.9	3909.7	3419.6	3055.8	3040.9	3062.3	3178.9	3656.1
40°	5008.6	5038.5	4954.0	4702.5	4271.3	3710.7	3277.3	3244.2	3249.5	3359.7	3897.9
42.5°	5249.3	5277.1	5285.7	5125.2	4685.4	4070.2	3553.4	3520.2	3523.4	3679.6	4195.4
45°	5434.4	5471.8	5592.8	5545.7	5151.9	4485.3	3926.8	3892.6	3894.7	4068.0	4554.9
47.5°	5510.4	5551.0	5796.1	5908.4	5647.3	4981.8	4391.2	4340.9	4348.4	4539.9	4965.8
50°	5485.8	5540.3	5872.0	6187.7	6062.5	5486.8	4946.5	4911.2	4882.3	5160.5	5411.9
52.5°	5273.9	5333.8	5864.5	6365.3	6401.7	5964.0	5520.0	5499.7	5493.2	5819.6	5910.5
55°	4650.1	4750.7	5606.7	6412.4	6667.0	6413.4	6141.7	6107.4	6140.6	6525.8	6414.5
57.5°	4304.5	4379.4	5101.6	6359.9	6884.2	6841.4	6762.2	6765.4	6802.9	7292.9	7025.5
60°	4107.6	4195.4	4821.3	6216.6	7092.9	7361.4	7411.7	7411.7	7479.1	8120.0	7646.0
62.5°	3846.6	3935.4	4559.2	5940.5	7285.5	7973.5	8228.1	8224.9	8251.6	9007.0	8252.7
65°	3316.9	3399.3	4032.7	5505.0	7379.6	8647.5	9155.8	9146.1	9092.6	9796.7	8654.0
67.5°	2408.5	2486.6	3089.0	4676.9	7040.4	9191.1	10111.3	10115.5	9795.6	10294.2	8675.4
70°	1587.8	1641.3	1985.9	3037.7	5725.4	8956.8	10511.4	10524.3	9903.7	9983.9	7720.9
72.5°	990.8	1028.2	1240.1	1811.5	3383.3	7089.7	9484.3	9519.6	8909.7	8773.8	6343.9
75°	658.0	683.7	825.0	1056.1	1565.4	3836.9	7209.5	7322.9	7141.0	6877.8	4420.1
77.5°	395.9	417.3	525.4	670.9	693.3	1499.0	4208.2	4501.4	4527.1	3590.8	1851.1
80°	180.8	205.4	290.0	383.1	369.1	522.1	1484.1	1552.5	1831.8	1140.6	584.2
82.5°	107.0	117.7	192.6	190.5	157.3	253.6	533.9	547.8	465.4	417.3	249.3
85°	42.8	50.3	81.3	71.7	57.8	82.4	201.2	210.8	202.2	181.9	92.0
87.5°	0.0	0.0	0.0	0.0	1.1	2.1	18.2	19.3	27.8	50.3	27.8
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°	2449.2	2449.2	2449.2	2449.2	2449.2	2449.2	2449.2	2449.2	2449.2	2449.2	2449.2
2.5°	2467.4	2460.9	2493.0	2517.7	2528.3	2539.0	2529.4	2526.2	2526.2	2504.8	2494.1
5°	2494.1	2497.3	2541.2	2561.5	2561.5	2553.0	2527.3	2509.1	2502.7	2474.9	2467.4
7.5°	2544.4	2558.3	2599.0	2597.9	2567.9	2520.9	2456.7	2407.4	2362.5	2343.2	2331.5
10°	2626.8	2645.0	2672.8	2627.9	2544.4	2420.3	2284.4	2177.4	2113.2	2061.8	2061.8
12.5°	2720.9	2738.1	2732.7	2628.9	2456.7	2224.5	2028.7	1905.6	1815.7	1768.7	1768.7
15°	2815.1	2829.0	2771.2	2579.7	2273.7	1964.5	1750.5	1602.8	1524.7	1480.8	1480.8
17.5°	2910.3	2909.3	2787.3	2466.3	2035.1	1676.7	1466.9	1352.4	1325.7	1318.2	1317.1
20°	3002.3	2977.7	2767.0	2276.9	1758.0	1386.7	1254.0	1261.5	1301.1	1318.2	1320.3
22.5°	3106.1	3045.1	2707.0	2035.1	1443.4	1185.5	1194.1	1256.2	1313.9	1339.6	1342.8
25°	3212.1	3102.9	2606.5	1751.5	1180.2	1111.7	1178.0	1247.6	1312.9	1346.0	1349.2
27.5°	3254.9	3102.9	2435.3	1423.1	1040.0	1080.7	1153.4	1220.8	1289.3	1327.8	1335.3
30°	3290.2	3076.2	2195.6	1126.7	982.2	1050.7	1113.8	1175.9	1243.3	1290.4	1298.9
32.5°	3339.4	3052.6	1905.6	946.9	955.5	1021.8	1065.7	1118.1	1179.1	1210.1	1206.9
35°	3397.2	3016.3	1555.7	861.3	933.0	997.2	1028.2	1059.3	1031.5	1030.4	1033.6
37.5°	3479.6	2984.2	1250.8	822.8	918.0	980.1	1005.8	939.4	900.9	884.9	878.4
40°	3598.3	2971.3	986.5	800.3	915.9	979.0	960.8	858.1	805.7	750.1	749.0
42.5°	3748.1	2961.7	815.3	789.6	923.4	1003.6	898.8	804.6	696.6	671.9	669.8
45°	3940.7	2946.7	729.7	787.5	941.6	1022.9	892.4	730.8	657.0	646.3	646.3
47.5°	4172.9	2923.2	691.2	787.5	961.9	1014.3	873.1	714.7	638.8	650.5	658.0
50°	4439.3	2893.2	670.9	785.4	982.2	1014.3	832.4	711.5	634.5	695.5	720.1
52.5°	4723.9	2859.0	657.0	776.8	996.1	1015.4	834.6	722.2	638.8	706.2	726.5
55°	5038.5	2853.6	637.7	758.6	1000.4	987.6	839.9	745.8	645.2	639.8	640.9
57.5°	5435.5	2917.8	623.8	731.9	983.3	930.9	850.6	762.9	637.7	638.8	646.3
60°	5850.6	3038.7	635.6	706.2	948.0	877.4	858.1	754.3	601.3	584.2	586.3
62.5°	6203.7	3130.7	645.2	694.4	896.6	830.3	850.6	735.1	581.0	576.7	586.3
65°	6351.4	3054.8	621.7	669.8	821.7	772.5	834.6	710.5	563.9	547.8	548.9
67.5°	6187.7	2698.5	575.6	615.2	737.2	698.7	808.9	678.4	540.3	521.1	516.8
70°	5285.7	1982.7	496.5	528.6	634.5	612.0	769.3	636.6	502.9	489.0	479.3
72.5°	4259.6	1403.8	411.9	420.5	497.5	515.7	700.8	584.2	460.1	420.5	406.6
75°	2964.9	881.7	343.5	334.9	359.5	393.8	546.8	484.7	397.0	355.2	342.4
77.5°	1275.4	452.6	268.6	264.3	239.7	272.8	419.4	404.5	332.8	284.6	277.1
80°	426.9	262.1	193.7	186.2	159.4	191.5	295.3	323.1	261.1	210.8	197.9
82.5°	214.0	151.9	123.0	111.3	107.0	120.9	174.4	201.2	180.8	145.5	123.0
85°	104.9	86.7	67.4	66.3	55.6	52.4	72.8	85.6	81.3	59.9	56.7
87.5°	38.5	34.2	21.4	17.1	10.7	7.5	4.3	4.3	3.2	3.2	3.2
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)