

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: P636743

Luminaire Tested: GWS-SA4B-735-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636743  
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-735-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

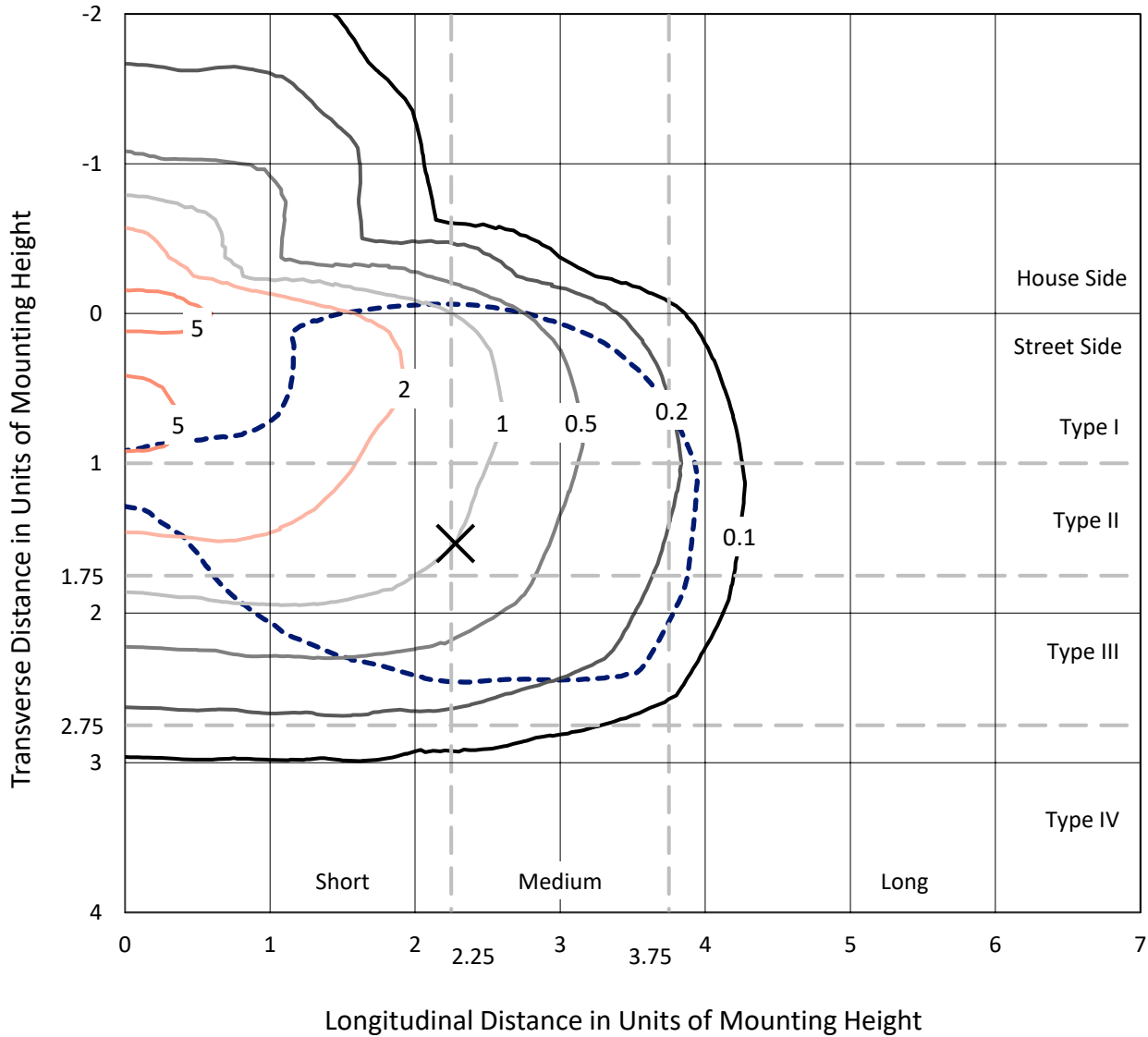
Lumens per Lamp: N/A  
Luminaire Lumens: 14512.8 lumens  
Efficiency: N/A  
Efficacy: 153.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): 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

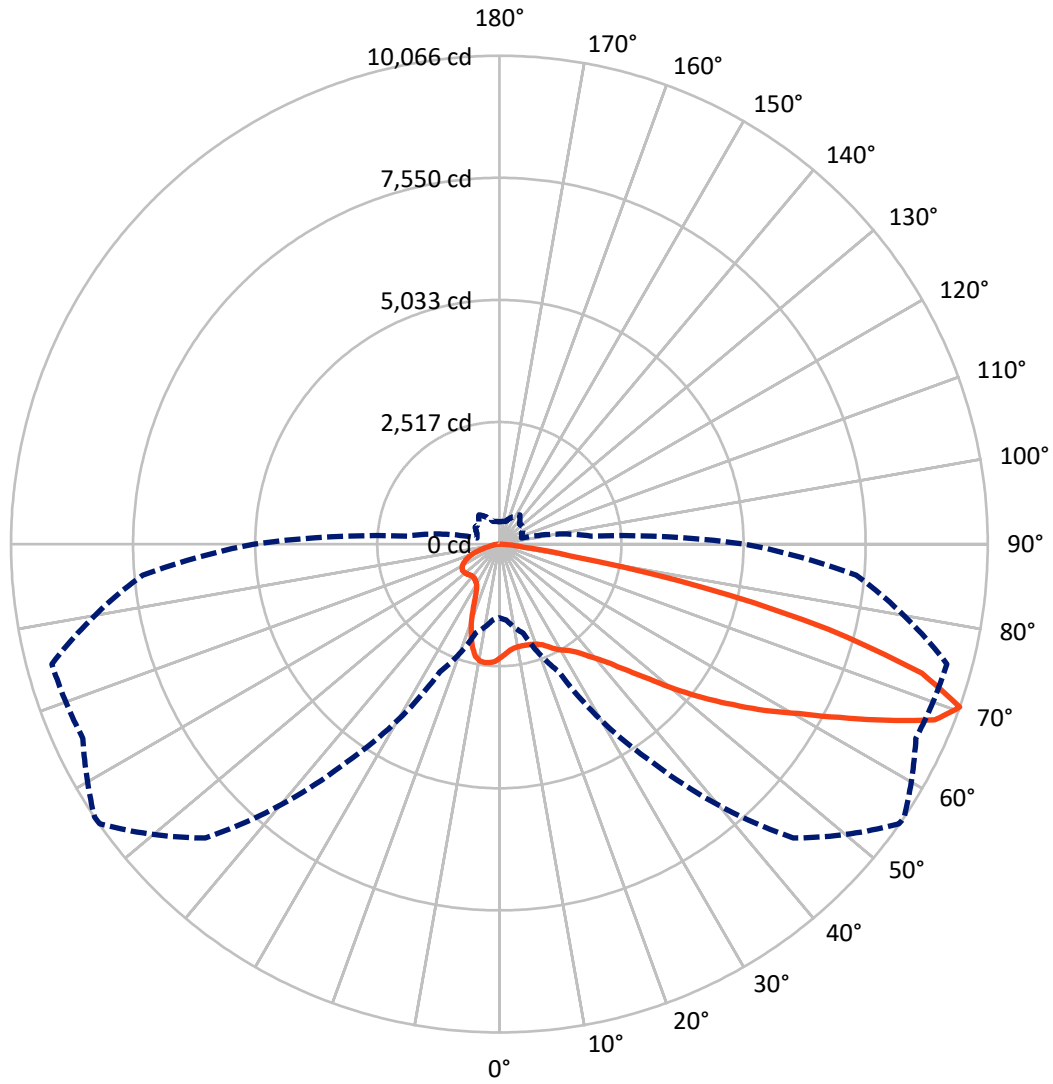
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 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
<b>House Side</b>	Lumens	2790.1	0.0	2790.1
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	11722.7	0.0	11722.7
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	14512.8	0.0	14512.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.8	1.5
10°-20°	587.4	4.0
20°-30°	971.1	6.7
30°-40°	1451.9	10.0
40°-50°	2160.6	14.9
50°-60°	3071.8	21.2
60°-70°	3804.5	26.2
70°-80°	2100.7	14.5
80°-90°	147.9	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°	14512.8	100.0
0°-180°	14512.8	100.0

**Coefficient of Utilization**



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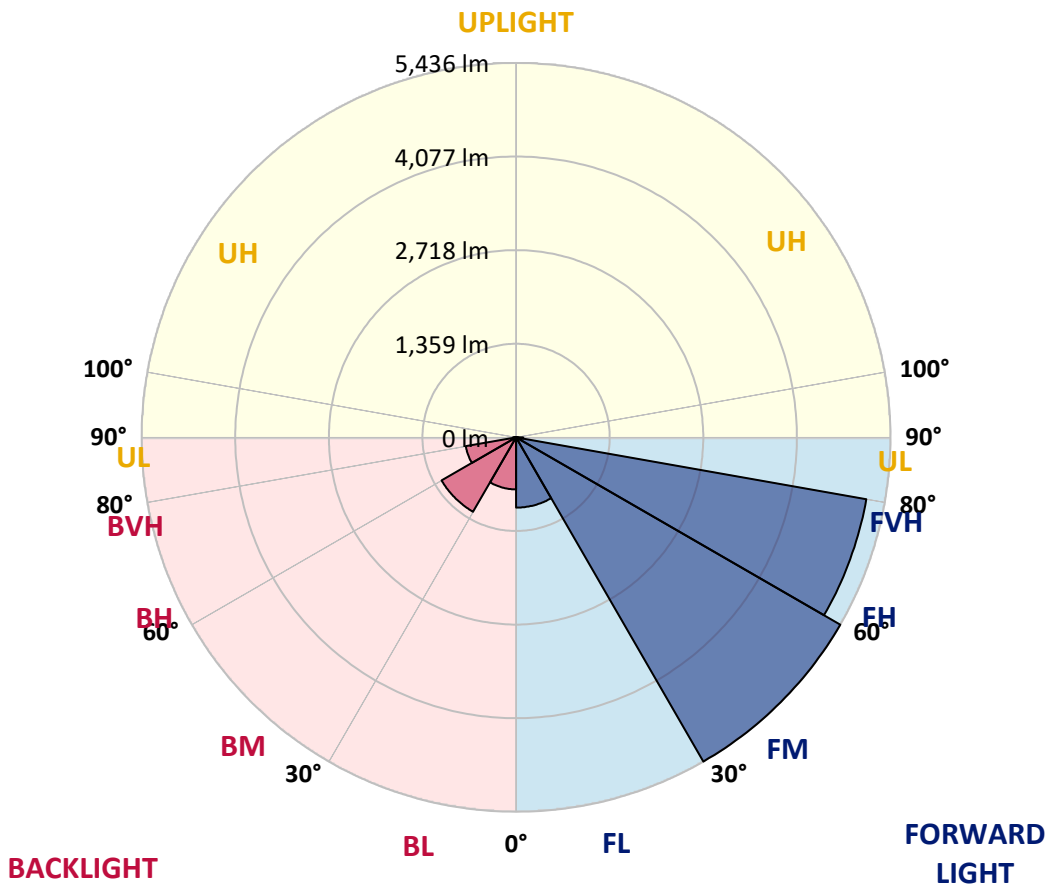
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1019.9	7.0			
FM (30°-60°)	5436.3	37.5			
FH (60°-80°)	5163.7	35.6			G3/7500
FVH (80°-90°)	102.8	0.7			G2/225
BL (0°-30°)	755.3	5.2	B2/1000		
BM (30°-60°)	1248.1	8.6	B2/2500		
BH (60°-80°)	741.6	5.1	B2/1000		G2/1000
BVH (80°-90°)	45.1	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°	2342.6	2342.6	2342.6	2342.6	2342.6	2342.6	2342.6	2342.6	2342.6	2342.6	2342.6
2.5°	2192.1	2179.9	2194.2	2201.4	2219.8	2246.4	2269.9	2271.0	2283.2	2312.9	2341.6
5°	2092.9	2086.7	2090.8	2112.3	2131.8	2165.5	2201.4	2204.4	2239.2	2297.6	2354.9
7.5°	2016.1	2007.9	2023.3	2050.9	2075.5	2113.3	2160.4	2164.5	2213.6	2301.7	2389.7
10°	1905.6	1899.5	1928.1	1965.0	2018.2	2080.6	2143.0	2148.1	2212.6	2328.3	2451.1
12.5°	1857.5	1857.5	1869.8	1904.6	1962.9	2045.8	2140.0	2148.1	2229.0	2369.2	2529.9
15°	1932.2	1937.3	1927.1	1925.0	1948.6	2027.4	2144.0	2156.3	2259.7	2411.2	2607.7
17.5°	2082.6	2087.8	2061.2	2019.2	1995.7	2044.8	2159.4	2172.7	2292.4	2457.2	2691.6
20°	2293.5	2299.6	2241.3	2176.8	2095.9	2094.9	2189.1	2201.4	2334.4	2507.4	2780.6
22.5°	2540.1	2544.2	2470.5	2368.2	2244.3	2188.1	2240.2	2252.5	2388.6	2577.0	2876.8
25°	2825.6	2837.9	2748.9	2600.5	2432.6	2316.0	2325.2	2339.5	2485.9	2670.1	2990.4
27.5°	3130.6	3146.0	3043.6	2879.9	2648.6	2457.2	2434.7	2447.0	2589.2	2727.4	3050.8
30°	3442.8	3454.0	3351.7	3164.4	2880.9	2616.9	2526.8	2534.0	2634.3	2755.0	3112.2
32.5°	3789.7	3780.5	3682.2	3466.3	3149.0	2808.2	2612.8	2610.7	2684.4	2810.3	3200.2
35°	4115.1	4128.4	4024.1	3785.6	3443.8	3044.6	2741.7	2733.5	2790.8	2900.3	3324.0
37.5°	4509.2	4505.1	4380.2	4122.3	3739.5	3270.8	2922.9	2908.5	2929.0	3040.6	3497.0
40°	4790.6	4819.2	4738.4	4497.9	4085.5	3549.2	3134.7	3103.0	3108.1	3213.5	3728.3
42.5°	5020.9	5047.5	5055.7	4902.1	4481.5	3893.1	3398.7	3367.0	3370.1	3519.5	4012.8
45°	5197.9	5233.7	5349.4	5304.3	4927.7	4290.1	3755.9	3723.2	3725.2	3891.0	4356.7
47.5°	5270.6	5309.5	5543.8	5651.3	5401.6	4765.0	4200.1	4152.0	4159.1	4342.3	4749.7
50°	5247.0	5299.2	5616.5	5918.4	5798.7	5248.1	4731.2	4697.5	4669.8	4935.9	5176.4
52.5°	5044.4	5101.7	5609.3	6088.3	6123.1	5704.5	5279.8	5260.3	5254.2	5566.3	5653.3
55°	4447.7	4543.9	5362.7	6133.3	6376.9	6134.3	5874.4	5841.6	5873.4	6241.8	6135.4
57.5°	4117.2	4188.8	4879.6	6083.2	6584.6	6543.7	6468.0	6471.0	6506.9	6975.6	6719.7
60°	3928.9	4012.8	4611.5	5946.0	6784.2	7041.1	7089.2	7089.2	7153.6	7766.7	7313.3
62.5°	3679.2	3764.1	4360.8	5682.0	6968.4	7626.5	7870.0	7867.0	7892.6	8615.1	7893.6
65°	3172.6	3251.4	3857.2	5265.5	7058.5	8271.2	8757.3	8748.1	8697.0	9370.4	8277.4
67.5°	2303.7	2378.4	2954.6	4473.3	6734.0	8791.1	9671.2	9675.3	9369.3	9846.2	8297.8
70°	1518.7	1569.9	1899.5	2905.5	5476.3	8567.0	10054.0	10066.3	9472.7	9549.5	7384.9
72.5°	947.7	983.5	1186.1	1732.6	3236.0	6781.1	9071.5	9105.3	8521.9	8392.0	6067.8
75°	629.4	654.0	789.1	1010.1	1497.3	3670.0	6895.7	7004.2	6830.2	6578.5	4227.7
77.5°	378.7	399.1	502.5	641.7	663.2	1433.8	4025.1	4305.5	4330.1	3434.6	1770.5
80°	173.0	196.5	277.3	366.4	353.1	499.4	1419.5	1485.0	1752.1	1091.0	558.8
82.5°	102.3	112.6	184.2	182.2	150.4	242.5	510.7	524.0	445.2	399.1	238.5
85°	40.9	48.1	77.8	68.6	55.3	78.8	192.4	201.6	193.4	174.0	88.0
87.5°	0.0	0.0	0.0	0.0	1.0	2.0	17.4	18.4	26.6	48.1	26.6
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°	2342.6	2342.6	2342.6	2342.6	2342.6	2342.6	2342.6	2342.6	2342.6	2342.6	2342.6
2.5°	2360.0	2353.8	2384.5	2408.1	2418.3	2428.6	2419.3	2416.3	2416.3	2395.8	2385.6
5°	2385.6	2388.6	2430.6	2450.0	2450.0	2441.9	2417.3	2399.9	2393.8	2367.2	2360.0
7.5°	2433.7	2447.0	2485.9	2484.8	2456.2	2411.2	2349.8	2302.7	2259.7	2241.3	2230.0
10°	2512.5	2529.9	2556.5	2513.5	2433.7	2315.0	2185.0	2082.6	2021.2	1972.1	1972.1
12.5°	2602.5	2618.9	2613.8	2514.5	2349.8	2127.7	1940.4	1822.7	1736.7	1691.7	1691.7
15°	2692.6	2705.9	2650.6	2467.4	2174.7	1879.0	1674.3	1533.1	1458.4	1416.4	1416.4
17.5°	2783.7	2782.7	2666.0	2359.0	1946.5	1603.7	1403.1	1293.6	1268.0	1260.8	1259.8
20°	2871.7	2848.2	2646.5	2177.8	1681.5	1326.3	1199.4	1206.6	1244.5	1260.8	1262.9
22.5°	2971.0	2912.6	2589.2	1946.5	1380.6	1133.9	1142.1	1201.5	1256.7	1281.3	1284.4
25°	3072.3	2967.9	2493.0	1675.3	1128.8	1063.3	1126.8	1193.3	1255.7	1287.5	1290.5
27.5°	3113.2	2967.9	2329.3	1361.1	994.8	1033.6	1103.2	1167.7	1233.2	1270.1	1277.2
30°	3147.0	2942.3	2100.0	1077.7	939.5	1005.0	1065.4	1124.7	1189.2	1234.2	1242.4
32.5°	3194.1	2919.8	1822.7	905.7	913.9	977.4	1019.3	1069.5	1127.8	1157.5	1154.4
35°	3249.3	2885.0	1488.0	823.8	892.4	953.8	983.5	1013.2	986.6	985.5	988.6
37.5°	3328.1	2854.3	1196.4	787.0	878.1	937.4	962.0	898.6	861.7	846.4	840.2
40°	3441.7	2842.0	943.6	765.5	876.0	936.4	919.0	820.8	770.6	717.4	716.4
42.5°	3585.0	2832.8	779.8	755.3	883.2	960.0	859.7	769.6	666.2	642.7	640.7
45°	3769.2	2818.5	698.0	753.2	900.6	978.4	853.5	699.0	628.4	618.1	618.1
47.5°	3991.3	2796.0	661.1	753.2	920.0	970.2	835.1	683.6	611.0	622.2	629.4
50°	4246.1	2767.3	641.7	751.2	939.5	970.2	796.2	680.6	606.9	665.2	688.8
52.5°	4518.4	2734.6	628.4	743.0	952.8	971.2	798.3	690.8	611.0	675.5	694.9
55°	4819.2	2729.4	610.0	725.6	956.9	944.6	803.4	713.3	617.1	612.0	613.0
57.5°	5198.9	2790.8	596.6	700.0	940.5	890.4	813.6	729.7	610.0	611.0	618.1
60°	5596.0	2906.5	607.9	675.5	906.7	839.2	820.8	721.5	575.2	558.8	560.8
62.5°	5933.7	2994.5	617.1	664.2	857.6	794.2	813.6	703.1	555.7	551.6	560.8
65°	6075.0	2921.8	594.6	640.7	786.0	738.9	798.3	679.5	539.3	524.0	525.0
67.5°	5918.4	2581.0	550.6	588.5	705.1	668.3	773.7	648.8	516.8	498.4	494.3
70°	5055.7	1896.4	474.9	505.6	606.9	585.4	735.8	608.9	481.0	467.7	458.5
72.5°	4074.2	1342.7	394.0	402.2	475.9	493.3	670.3	558.8	440.1	402.2	388.9
75°	2835.9	843.3	328.5	320.3	343.9	376.6	523.0	463.6	379.7	339.8	327.5
77.5°	1219.9	432.9	256.9	252.8	229.2	261.0	401.2	386.8	318.3	272.2	265.1
80°	408.3	250.7	185.2	178.1	152.5	183.2	282.5	309.1	249.7	201.6	189.3
82.5°	204.7	145.3	117.7	106.4	102.3	115.6	166.8	192.4	173.0	139.2	117.7
85°	100.3	82.9	64.5	63.5	53.2	50.1	69.6	81.9	77.8	57.3	54.2
87.5°	36.8	32.7	20.5	16.4	10.2	7.2	4.1	4.1	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)