

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: P636718

Luminaire Tested: GWS-SA4B-735-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636718  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-735-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

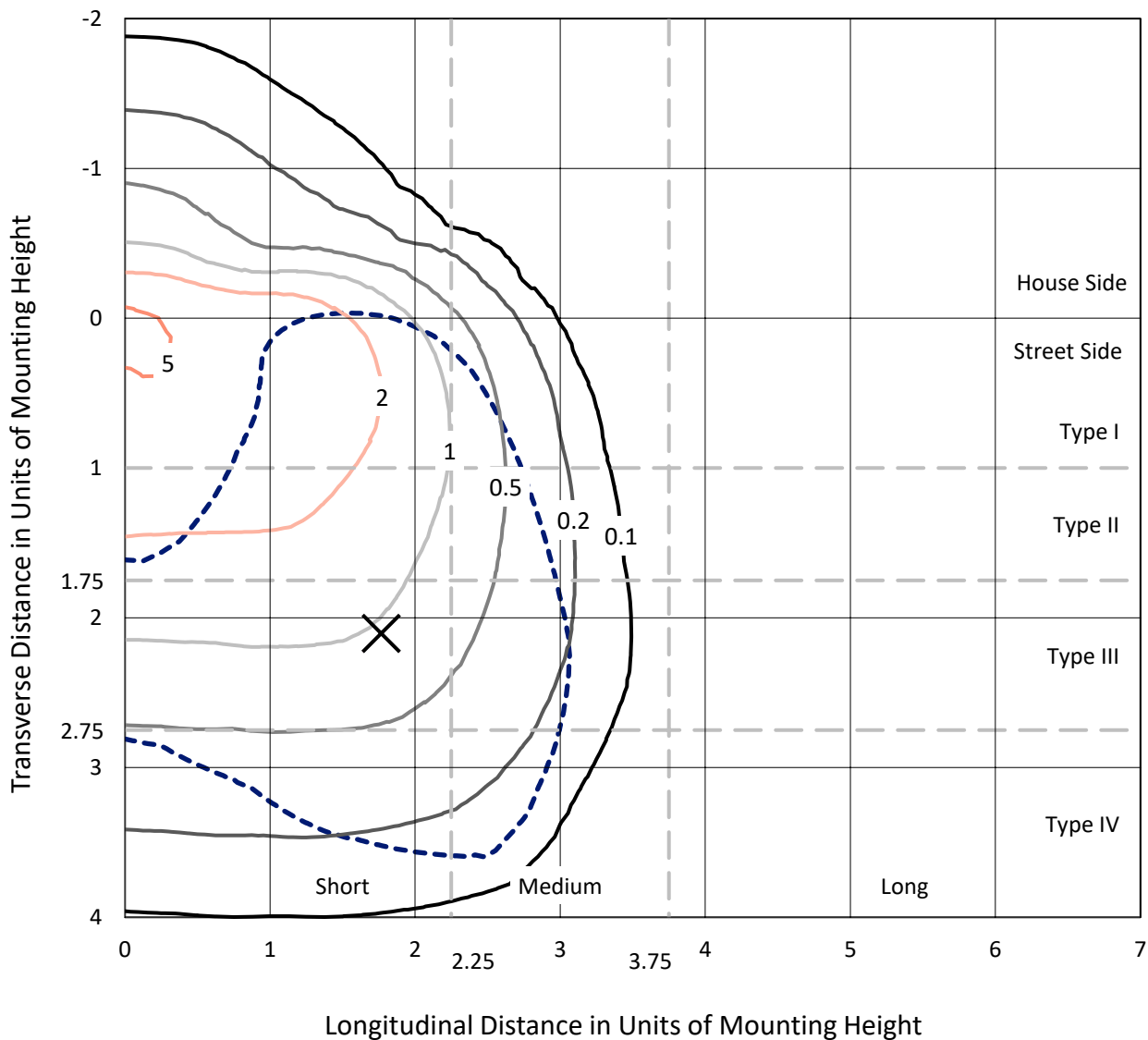
Lumens per Lamp: N/A  
Luminaire Lumens: 13710.5 lumens  
Efficiency: N/A  
Efficacy: 145.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



REPORT NUMBER: P636718  
 CATALOG NUMBER: GWS-SA4B-735-U-SL4-W

### Iso-Footcandle Lines of Horizontal Illumination

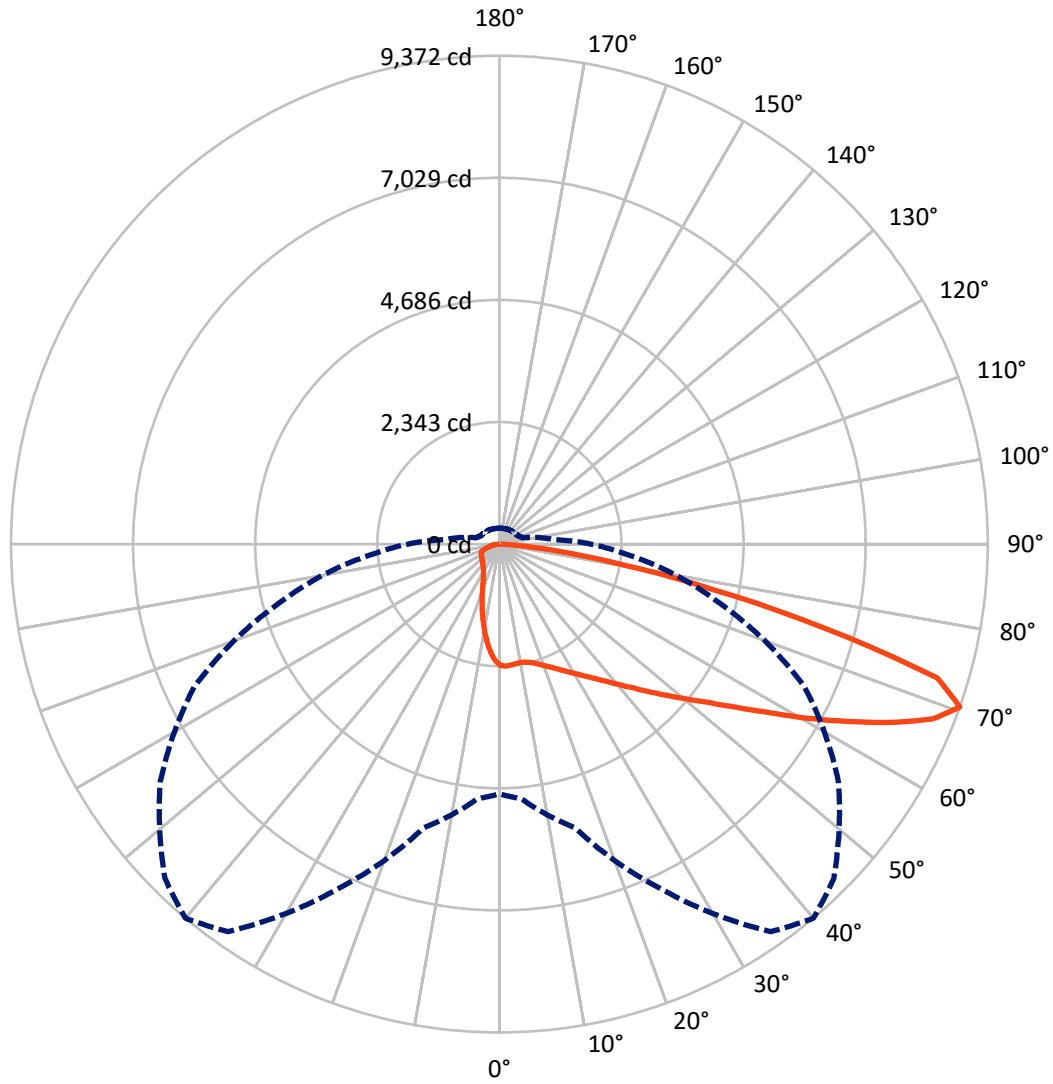
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.8 fc  
 Type IV - Short - N/A

REPORT NUMBER: P636718  
CATALOG NUMBER: GWS-SA4B-735-U-SL4-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P636718

CATALOG NUMBER: GWS-SA4B-735-U-SL4-W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2111.8	0.0	2111.8
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	11598.7	0.0	11598.7
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	13710.5	0.0	13710.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.7	1.5
10°-20°	536.1	3.9
20°-30°	841.8	6.1
30°-40°	1265.7	9.2
40°-50°	1953.6	14.2
50°-60°	2901.2	21.2
60°-70°	3657.0	26.7
70°-80°	2114.8	15.4
80°-90°	234.7	1.7
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°	13710.5	100.0
0°-180°	13710.5	100.0

**Coefficient of Utilization**



REPORT NUMBER: P636718

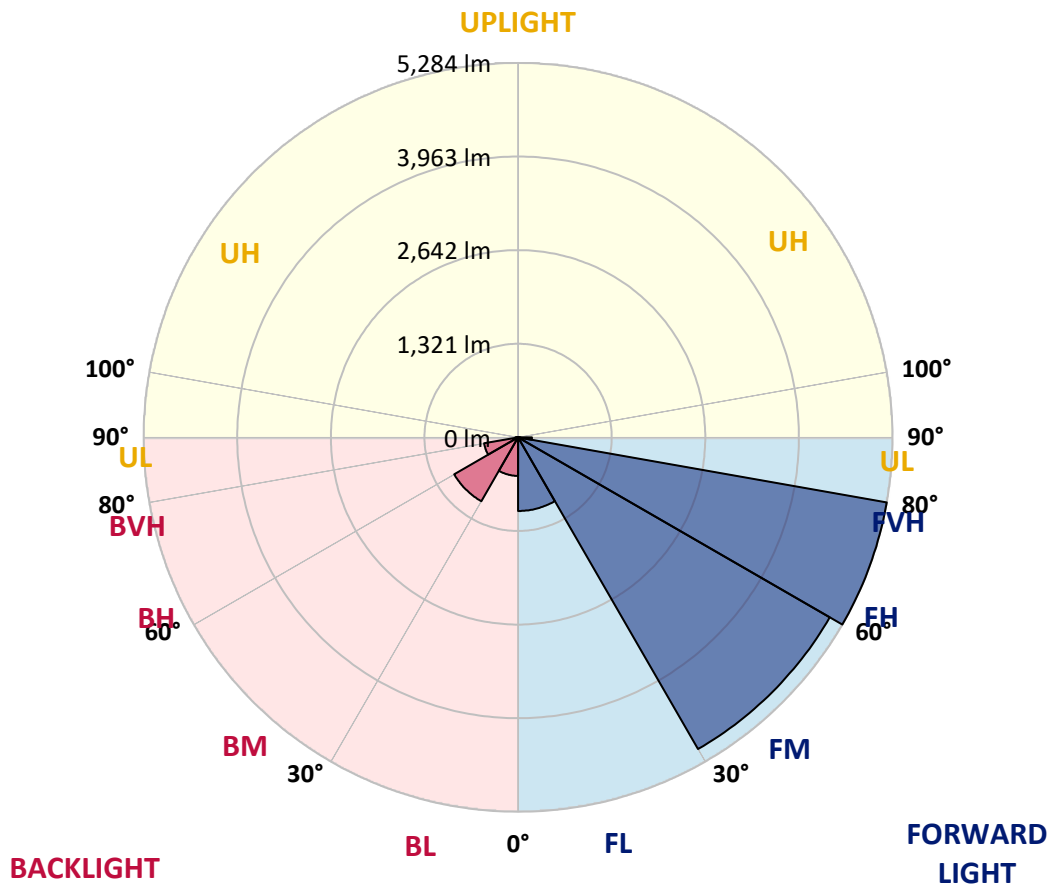
CATALOG NUMBER: GWS-SA4B-735-U-SL4-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1039.4	7.6			
FM (30°-60°)	5079.6	37.0			
FH (60°-80°)	5284.3	38.5			G3/7500
FVH (80°-90°)	195.5	1.4			G2/225
BL (0°-30°)	544.2	4.0	B2/1000		
BM (30°-60°)	1040.9	7.6	B2/2500		
BH (60°-80°)	487.4	3.6	B1/500		G1/500
BVH (80°-90°)	39.2	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 IV Short





REPORT NUMBER: P636718  
 CATALOG NUMBER: GWS-SA4B-735-U-SL4-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2328.2	2328.2	2328.2	2328.2	2328.2	2328.2	2328.2	2328.2	2328.2	2328.2	2328.2
2.5°	2342.5	2346.6	2349.7	2353.8	2351.7	2345.6	2350.7	2350.7	2339.5	2327.2	2315.9
5°	2345.6	2350.7	2349.7	2348.7	2340.5	2330.2	2330.2	2324.1	2304.7	2285.2	2266.8
7.5°	2339.5	2338.4	2337.4	2334.3	2325.1	2313.9	2311.8	2299.5	2274.0	2247.4	2220.7
10°	2311.8	2310.8	2313.9	2321.0	2319.0	2308.8	2308.8	2297.5	2267.8	2235.1	2200.3
12.5°	2289.3	2289.3	2301.6	2321.0	2328.2	2324.1	2325.1	2316.9	2283.2	2244.3	2203.3
15°	2292.4	2293.4	2320.0	2351.7	2365.0	2362.0	2363.0	2353.8	2315.9	2277.0	2221.8
17.5°	2312.8	2318.0	2364.0	2408.0	2425.4	2421.3	2414.2	2398.8	2355.8	2311.8	2244.3
20°	2355.8	2364.0	2423.4	2478.6	2499.1	2489.9	2477.6	2446.9	2399.8	2351.7	2268.8
22.5°	2440.8	2445.9	2511.4	2565.6	2582.0	2570.7	2546.2	2502.2	2447.9	2397.8	2298.5
25°	2560.5	2566.6	2629.1	2679.2	2675.1	2661.8	2628.1	2573.8	2509.3	2456.1	2341.5
27.5°	2702.8	2713.0	2774.4	2814.3	2787.7	2768.3	2730.4	2664.9	2592.2	2544.1	2407.0
30°	2858.3	2862.4	2914.6	2954.5	2913.6	2887.0	2840.9	2770.3	2704.8	2669.0	2505.2
32.5°	3008.8	3012.8	3057.9	3080.4	3037.4	3018.0	2978.0	2903.3	2857.3	2837.8	2651.6
35°	3167.4	3166.4	3203.2	3222.6	3178.6	3170.4	3129.5	3072.2	3064.0	3089.6	2865.5
37.5°	3326.0	3316.8	3336.2	3361.8	3337.3	3345.4	3318.8	3299.4	3331.1	3397.6	3150.0
40°	3452.9	3452.9	3473.4	3505.1	3513.3	3549.1	3533.7	3559.3	3661.7	3820.3	3502.0
42.5°	3565.5	3566.5	3609.5	3658.6	3718.0	3773.2	3785.5	3852.0	4063.9	4312.5	3944.1
45°	3683.2	3684.2	3742.5	3814.2	3940.0	4045.4	4070.0	4219.4	4522.3	4825.3	4424.1
47.5°	3819.3	3808.0	3888.9	4008.6	4187.7	4339.2	4402.6	4614.4	4997.2	5369.7	4876.4
50°	3972.8	3949.2	4039.3	4246.0	4467.1	4674.8	4781.3	5023.8	5506.8	5872.2	5302.2
52.5°	4145.7	4132.4	4226.6	4478.3	4816.0	5055.5	5199.8	5518.1	6002.2	6372.6	5639.9
55°	4360.6	4328.9	4465.0	4785.3	5225.4	5530.4	5701.3	6007.3	6543.5	6827.0	5897.8
57.5°	4596.0	4561.2	4743.4	5169.1	5757.6	6092.2	6306.1	6557.8	7053.2	7174.9	6049.2
60°	4849.8	4838.6	5054.5	5619.4	6392.1	6780.9	6935.5	7163.7	7496.3	7376.6	6011.4
62.5°	5082.1	5078.0	5392.2	6107.6	7064.4	7492.2	7615.0	7675.4	7815.6	7363.3	5710.5
65°	5326.7	5361.5	5786.2	6673.5	7835.0	8254.6	8305.8	8152.3	7923.0	7014.3	5094.4
67.5°	5357.4	5425.0	6033.9	7203.6	8565.7	8961.8	8920.8	8333.4	7605.8	6043.1	3993.2
70°	4791.5	4909.2	5638.8	7284.5	9080.5	9372.2	9076.4	7943.5	6454.5	4378.0	2511.4
72.5°	4003.5	4104.8	4749.5	6211.9	8416.3	8787.8	8387.7	6723.6	4561.2	2511.4	1279.2
75°	3116.2	3233.9	3828.5	4937.8	6301.0	6449.4	6248.8	4689.1	2507.3	1035.7	581.3
77.5°	1901.4	1986.4	2449.0	3345.4	4408.7	4186.7	3548.1	2629.1	1100.1	496.3	359.2
80°	841.2	893.4	1206.6	1797.1	2547.2	2408.0	1898.4	1122.7	601.8	315.2	250.7
82.5°	451.3	485.1	594.6	711.3	1118.6	1169.7	948.7	646.8	323.4	180.1	143.3
85°	198.5	218.0	270.2	257.9	367.4	361.3	364.3	444.1	154.5	82.9	93.1
87.5°	0.0	0.0	0.0	0.0	1.0	1.0	11.3	59.4	15.4	24.6	21.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636718  
 CATALOG NUMBER: GWS-SA4B-735-U-SL4-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2328.2	2328.2	2328.2	2328.2	2328.2	2328.2	2328.2	2328.2	2328.2	2328.2	2328.2
2.5°	2303.6	2285.2	2280.1	2274.0	2262.7	2243.3	2228.9	2212.6	2205.4	2197.2	2198.2
5°	2246.3	2223.8	2202.3	2174.7	2139.9	2101.0	2074.4	2043.7	2027.3	2012.0	2016.1
7.5°	2197.2	2162.4	2118.4	2060.1	1997.6	1928.1	1871.8	1827.8	1798.1	1777.6	1787.9
10°	2166.5	2125.6	2048.8	1953.6	1848.2	1741.8	1661.0	1585.2	1538.1	1501.3	1499.3
12.5°	2160.4	2107.1	1995.6	1857.4	1705.0	1562.7	1444.0	1341.7	1279.2	1233.2	1250.6
15°	2166.5	2099.0	1949.5	1768.4	1576.0	1383.6	1236.2	1118.6	1043.9	1001.9	998.8
17.5°	2173.7	2090.8	1897.4	1672.2	1440.9	1220.9	1050.0	925.1	848.4	806.4	807.5
20°	2179.8	2078.5	1836.0	1566.8	1303.8	1069.4	892.4	773.7	705.1	674.4	679.5
22.5°	2190.0	2066.2	1770.5	1454.2	1163.6	923.1	767.5	671.3	630.4	609.9	611.0
25°	2209.5	2059.0	1702.9	1331.4	1025.4	806.4	681.6	617.1	591.5	579.2	578.2
27.5°	2249.4	2065.2	1632.3	1212.7	900.6	717.4	626.3	584.4	567.0	558.8	557.7
30°	2315.9	2089.8	1570.9	1092.0	793.1	647.8	588.4	562.9	552.6	545.5	544.4
32.5°	2417.2	2135.8	1504.4	979.4	706.1	596.6	558.8	545.5	538.3	534.2	534.2
35°	2570.7	2219.7	1438.9	881.1	638.6	556.7	535.2	530.1	524.0	521.9	524.0
37.5°	2791.8	2353.8	1379.5	795.2	590.5	526.0	509.6	511.7	506.6	509.6	512.7
40°	3072.2	2532.9	1329.4	724.6	554.7	503.5	487.1	494.3	491.2	494.3	499.4
42.5°	3427.3	2755.0	1291.5	669.3	529.1	485.1	469.7	476.9	474.9	478.9	484.1
45°	3823.4	3047.6	1274.1	630.4	510.7	471.8	455.4	460.5	458.5	461.5	466.7
47.5°	4203.0	3313.7	1289.5	607.9	495.3	460.5	443.1	445.2	444.1	443.1	446.2
50°	4530.5	3525.6	1333.5	600.7	485.1	449.3	432.9	433.9	430.8	424.7	426.8
52.5°	4797.6	3695.4	1360.1	600.7	480.0	437.0	421.6	422.7	416.5	408.3	409.4
55°	4973.6	3764.0	1338.6	599.7	477.9	426.8	410.4	411.4	405.3	395.0	396.0
57.5°	5023.8	3697.5	1248.5	588.4	475.9	418.6	399.1	401.2	397.1	385.8	385.8
60°	4883.6	3453.9	1083.8	562.9	470.8	413.4	390.9	394.0	392.0	380.7	380.7
62.5°	4516.2	3021.0	887.3	524.0	456.4	407.3	383.8	389.9	395.0	388.9	387.9
65°	3828.5	2420.3	721.5	481.0	438.0	397.1	373.5	388.9	400.1	408.3	408.3
67.5°	2872.6	1732.6	588.4	436.0	410.4	376.6	360.2	374.6	382.7	387.9	390.9
70°	1751.0	1019.3	463.6	383.8	370.5	345.9	333.6	319.3	308.0	306.0	307.0
72.5°	856.6	583.3	376.6	326.5	316.2	293.7	266.1	259.9	254.8	251.8	250.7
75°	471.8	406.3	311.1	271.2	252.8	225.1	219.0	208.8	206.7	202.6	203.7
77.5°	333.6	320.3	256.9	220.0	192.4	178.1	181.1	174.0	174.0	170.9	169.9
80°	250.7	251.8	197.5	160.7	142.3	137.1	140.2	140.2	138.2	137.1	136.1
82.5°	158.6	179.1	133.0	103.4	101.3	102.3	101.3	100.3	102.3	99.3	98.2
85°	109.5	128.9	80.8	61.4	61.4	60.4	62.4	61.4	63.4	60.4	60.4
87.5°	24.6	57.3	29.7	18.4	19.4	18.4	19.4	20.5	22.5	23.5	23.5
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)