

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: P633537

Luminaire Tested: GWS-SA2E-830-U-T1-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633537  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2E-830-U-T1-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

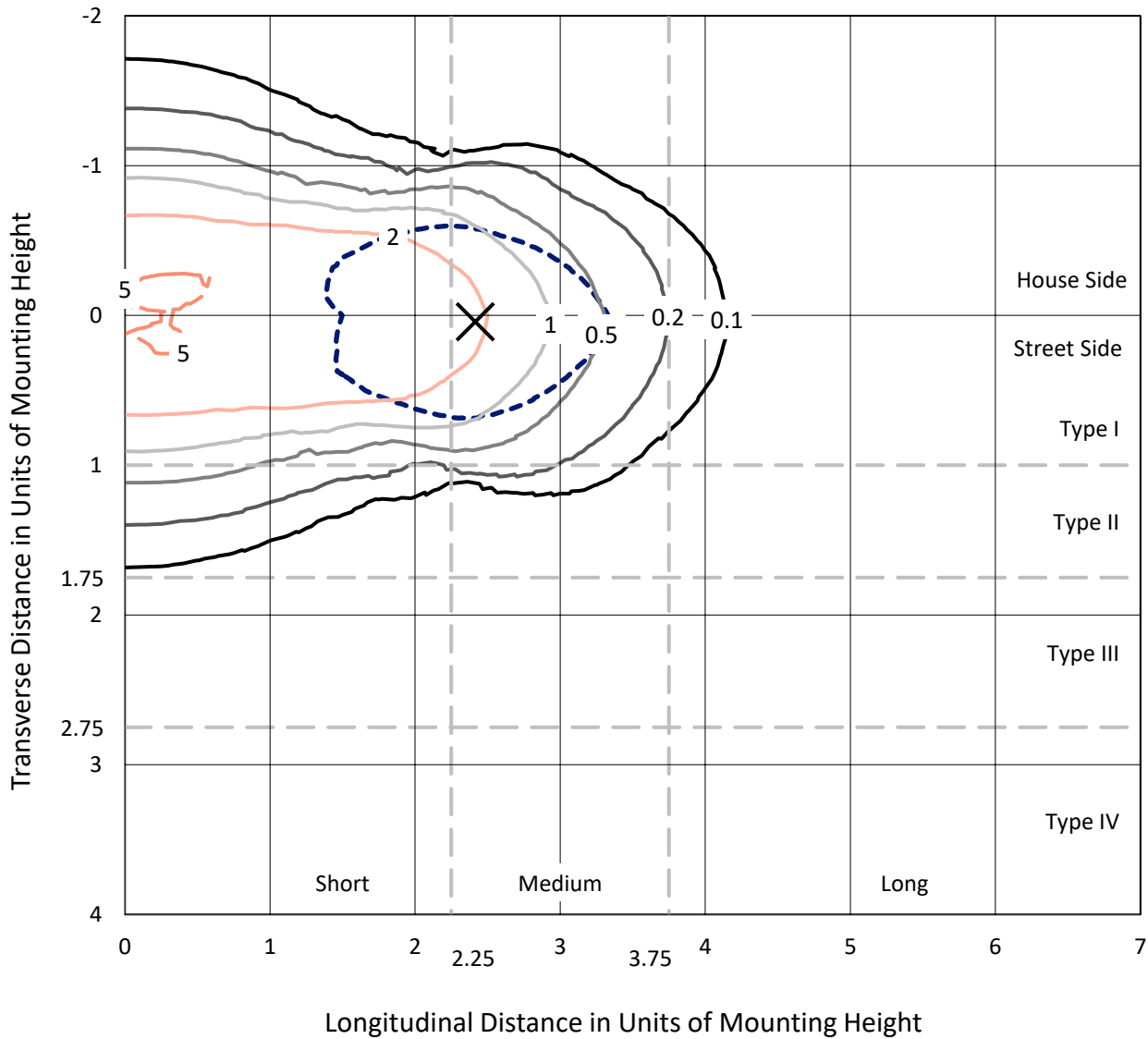
Lumens per Lamp: N/A  
Luminaire Lumens: 11569.8 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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

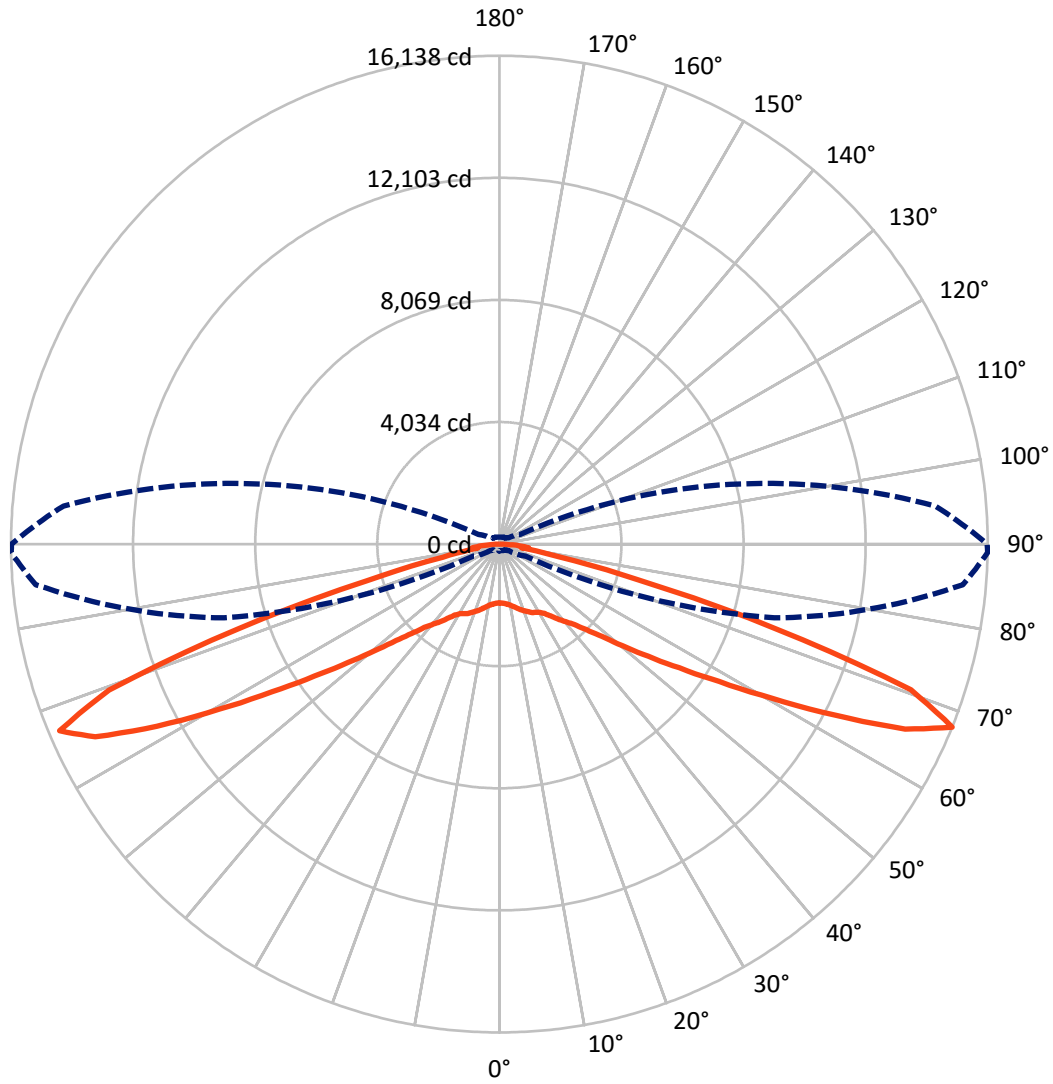
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 fc  
 Type I - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5734.2	0.0	5734.2
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	5835.6	0.0	5835.6
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	11569.8	0.0	11569.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.8	1.7
10°-20°	634.3	5.5
20°-30°	1072.2	9.3
30°-40°	1471.4	12.7
40°-50°	1876.4	16.2
50°-60°	2354.2	20.3
60°-70°	2839.4	24.5
70°-80°	1027.2	8.9
80°-90°	99.9	0.9
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°	11569.8	100.0
0°-180°	11569.8	100.0

**Coefficient of Utilization**



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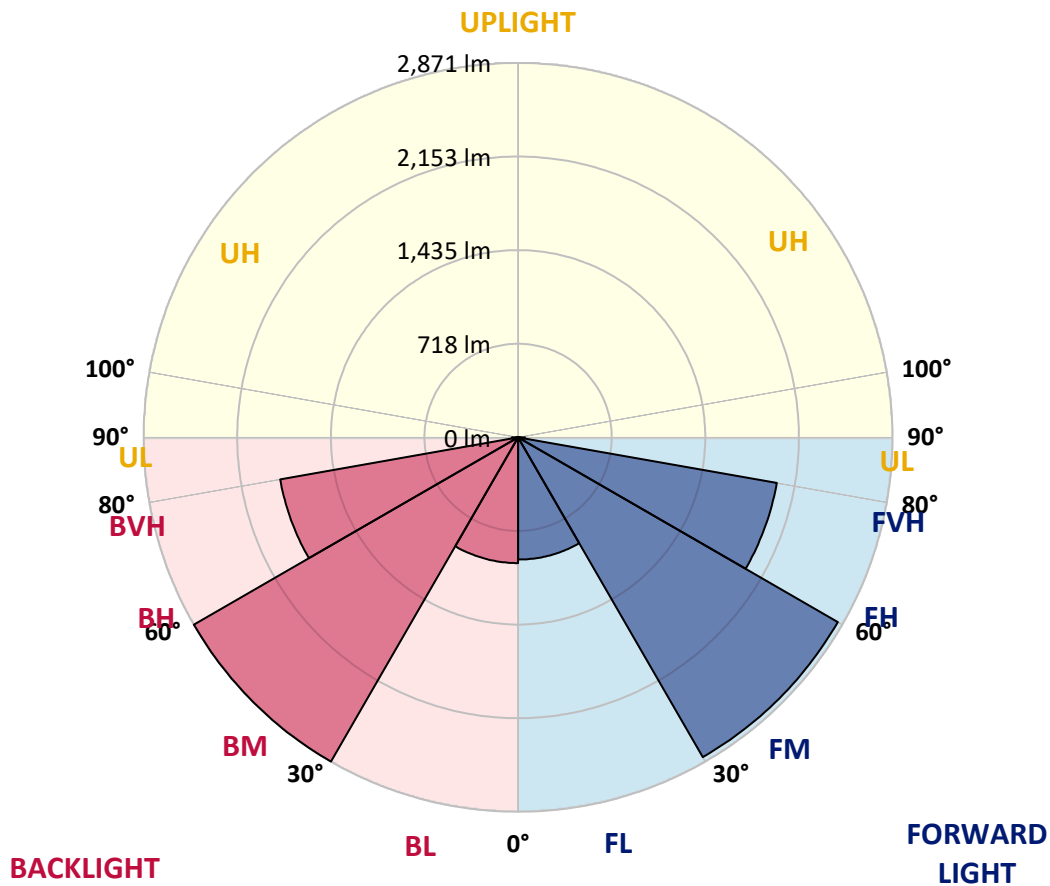
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	937.1	8.1			
FM (30°-60°)	2831.4	24.5			
FH (60°-80°)	2014.5	17.4			G2/5000
FVH (80°-90°)	52.7	0.5			G1/100
BL (0°-30°)	964.2	8.3	B2/1000		
BM (30°-60°)	2870.7	24.8	B3/5000		
BH (60°-80°)	1852.1	16.0	B3/2500		G3/2500
BVH (80°-90°)	47.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type I Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	1941.9	1941.9	1941.9	1941.9	1941.9	1941.9	1941.9	1941.9	1941.9	1941.9	1941.9
2.5°	1947.7	1946.1	1941.9	1954.4	1951.9	1952.7	1957.7	1954.4	1948.5	1938.6	1952.7
5°	2002.6	2001.7	1992.6	2000.1	1991.8	1985.9	1985.1	1976.8	1970.1	1959.3	1974.3
7.5°	2055.7	2054.9	2047.4	2060.7	2054.1	2047.4	2039.9	2023.3	2007.5	1991.8	2008.4
10°	2096.5	2095.6	2094.0	2113.1	2114.7	2117.2	2113.9	2085.6	2058.2	2039.1	2055.7
12.5°	2119.7	2122.2	2126.4	2161.3	2178.7	2195.3	2199.5	2176.2	2130.5	2103.1	2123.0
15°	2103.9	2108.9	2129.7	2192.8	2241.0	2278.4	2294.2	2275.1	2216.1	2170.4	2192.8
17.5°	2028.3	2032.5	2073.2	2169.6	2275.9	2362.4	2388.1	2376.5	2310.8	2255.2	2276.8
20°	1923.6	1932.8	1976.8	2111.4	2270.1	2420.5	2489.5	2485.3	2413.9	2328.3	2354.0
22.5°	1828.9	1839.7	1886.2	2035.0	2231.1	2435.5	2591.7	2602.5	2507.8	2401.4	2422.2
25°	1722.5	1732.5	1792.3	1944.4	2163.8	2423.8	2678.9	2728.0	2614.1	2485.3	2504.4
27.5°	1613.7	1621.2	1680.2	1842.2	2075.7	2402.2	2747.9	2865.9	2718.8	2543.5	2556.8
30°	1518.1	1528.1	1582.1	1740.0	1979.3	2359.0	2804.4	3013.0	2839.3	2609.1	2619.9
32.5°	1425.9	1434.2	1493.2	1639.4	1877.1	2292.6	2855.1	3185.8	3018.0	2731.3	2731.3
35°	1309.6	1324.5	1391.0	1543.0	1780.7	2204.5	2891.7	3386.9	3262.3	2911.6	2912.4
37.5°	1202.4	1210.7	1280.5	1434.2	1679.3	2104.8	2895.0	3595.5	3571.4	3140.9	3142.6
40°	1080.2	1091.0	1165.8	1317.9	1563.0	2000.1	2863.4	3789.9	3895.4	3376.9	3367.8
42.5°	956.4	972.2	1043.7	1192.4	1437.5	1872.1	2779.5	3975.2	4306.7	3650.3	3627.9
45°	836.8	846.7	918.2	1058.6	1293.8	1719.2	2644.9	4153.0	4795.3	4065.8	4033.4
47.5°	702.1	706.3	780.2	914.9	1145.0	1548.9	2452.1	4311.7	5332.1	4615.9	4560.2
50°	582.5	588.3	646.5	762.0	963.1	1346.9	2212.0	4404.8	6016.0	5366.2	5269.8
52.5°	471.1	477.0	523.5	615.7	796.0	1116.8	1914.5	4383.2	6709.8	6297.7	6157.2
55°	380.6	384.7	416.3	488.6	626.5	888.3	1563.0	4189.6	7480.1	7514.2	7211.7
57.5°	321.6	323.2	344.8	388.9	489.4	684.7	1206.5	3732.6	8287.8	9066.3	8569.4
60°	287.5	288.3	298.3	325.7	386.4	522.7	884.1	3004.7	9124.5	11008.2	10326.9
62.5°	265.9	265.9	274.2	290.0	320.7	402.2	649.8	2157.9	9725.3	13121.3	12444.1
65°	245.1	245.1	250.9	264.2	280.9	328.2	487.8	1391.8	10020.3	14887.9	14737.5
67.5°	218.5	219.4	223.5	237.6	252.6	274.2	369.8	941.5	9407.9	15376.5	16137.6
70°	193.6	194.4	200.3	209.4	221.9	236.8	289.2	649.0	6847.7	12806.4	14429.2
72.5°	166.2	169.5	173.7	183.6	191.1	201.9	236.0	420.5	3984.3	8237.9	9538.3
75°	136.3	140.4	145.4	155.4	160.4	164.5	194.4	300.0	1917.0	4174.6	4753.8
77.5°	105.5	109.7	115.5	124.6	128.0	132.9	148.7	216.9	918.2	1850.5	1995.1
80°	70.6	72.3	77.3	88.1	93.9	97.2	109.7	147.9	398.8	742.9	736.2
82.5°	43.2	44.0	45.7	52.3	54.8	58.2	71.5	90.6	190.3	844.2	968.0
85°	15.8	15.0	14.1	18.3	21.6	24.9	33.2	45.7	83.1	580.0	649.0
87.5°	0.0	0.0	0.0	0.8	1.7	1.7	3.3	6.6	19.9	216.9	148.7
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°	1941.9	1941.9	1941.9	1941.9	1941.9	1941.9	1941.9	1941.9	1941.9	1941.9	1941.9
2.5°	1948.5	1939.4	1951.0	1959.3	1977.6	1984.3	1985.9	1980.1	1980.1	1970.1	1971.8
5°	1971.0	1965.2	1984.3	1998.4	2025.0	2035.0	2041.6	2037.5	2039.9	2033.3	2035.0
7.5°	2005.0	2000.1	2033.3	2060.7	2088.1	2099.8	2105.6	2102.3	2103.1	2094.8	2097.3
10°	2052.4	2054.1	2094.0	2129.7	2166.3	2177.9	2180.4	2170.4	2162.1	2147.1	2148.0
12.5°	2117.2	2125.5	2182.0	2221.9	2259.3	2275.9	2257.7	2221.1	2187.0	2161.3	2157.9
15°	2187.9	2202.8	2284.2	2334.9	2375.6	2367.3	2313.3	2231.1	2163.8	2125.5	2118.1
17.5°	2272.6	2295.0	2397.3	2457.9	2492.8	2439.6	2326.6	2203.6	2109.7	2058.2	2048.3
20°	2352.4	2388.1	2516.9	2595.8	2600.0	2480.3	2320.8	2148.0	2030.0	1966.8	1953.5
22.5°	2425.5	2471.2	2642.4	2742.9	2688.9	2498.6	2285.1	2069.0	1933.6	1859.6	1848.0
25°	2505.3	2570.1	2788.6	2882.5	2777.8	2491.1	2210.3	1971.0	1817.3	1741.6	1733.3
27.5°	2560.1	2641.5	2935.7	3025.4	2850.9	2448.8	2113.9	1863.8	1710.9	1639.4	1627.8
30°	2623.3	2727.1	3097.7	3180.8	2895.8	2386.4	2010.9	1764.1	1612.0	1534.7	1526.4
32.5°	2737.9	2868.4	3298.8	3345.3	2909.9	2309.2	1912.0	1667.7	1509.0	1431.7	1420.1
35°	2922.4	3075.3	3581.3	3529.0	2899.1	2224.4	1818.1	1554.7	1403.5	1331.2	1319.5
37.5°	3155.1	3345.3	3896.3	3694.3	2869.2	2131.4	1706.7	1460.0	1308.7	1235.6	1229.0
40°	3371.9	3606.3	4249.4	3837.3	2808.6	2016.7	1599.6	1361.1	1206.5	1129.2	1114.3
42.5°	3643.7	3955.3	4658.2	3961.1	2708.9	1879.6	1479.1	1238.9	1078.6	1008.8	990.5
45°	4056.6	4443.8	5133.5	4079.9	2560.1	1710.9	1327.8	1090.2	938.1	866.7	852.5
47.5°	4571.8	5054.6	5648.7	4150.5	2334.1	1533.1	1156.7	933.1	781.1	700.5	693.8
50°	5295.6	5942.9	6201.3	4138.1	2081.5	1322.0	963.9	746.2	619.0	560.9	551.7
52.5°	6177.2	7058.0	6798.7	3988.5	1813.1	1081.9	751.2	585.8	491.1	449.5	442.1
55°	7283.2	8393.3	7427.7	3667.8	1474.1	828.4	590.0	462.0	397.2	372.3	368.9
57.5°	8652.5	10122.5	8033.5	3127.6	1108.5	632.3	454.5	381.4	350.7	335.7	334.9
60°	10459.8	11958.0	8559.5	2430.5	793.5	483.6	375.6	340.7	316.6	306.6	305.8
62.5°	12608.6	13624.9	8886.9	1655.2	596.6	385.6	330.7	309.1	295.0	289.2	288.3
65°	14817.3	14678.5	8730.6	1084.4	452.9	327.4	296.6	285.0	272.5	266.7	266.7
67.5°	16121.8	14455.8	7531.6	752.8	359.0	287.5	267.6	256.8	236.0	231.0	231.0
70°	14279.6	11713.7	4936.6	550.9	290.8	251.8	232.7	217.7	209.4	204.4	203.6
72.5°	9444.4	7622.2	2624.9	382.2	242.6	214.4	196.9	191.1	181.1	176.2	175.3
75°	4700.6	4003.5	1345.3	275.9	201.9	172.0	164.5	162.0	153.7	147.1	145.4
77.5°	1959.3	1782.4	627.4	200.3	153.7	138.8	132.1	132.1	123.0	115.5	112.2
80°	738.7	658.1	296.6	137.1	113.8	103.0	98.9	95.6	88.1	78.9	74.0
82.5°	988.0	645.6	145.4	85.6	74.8	66.5	60.7	58.2	54.0	49.9	46.5
85°	639.8	458.7	65.6	44.0	37.4	28.3	24.9	23.3	20.8	18.3	16.6
87.5°	130.5	153.7	19.9	8.3	5.0	2.5	2.5	0.8	0.0	0.0	0.0
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)