

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: P633769

Luminaire Tested: GWS-SA2F-735-U-T3-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633769  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2F-735-U-T3-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

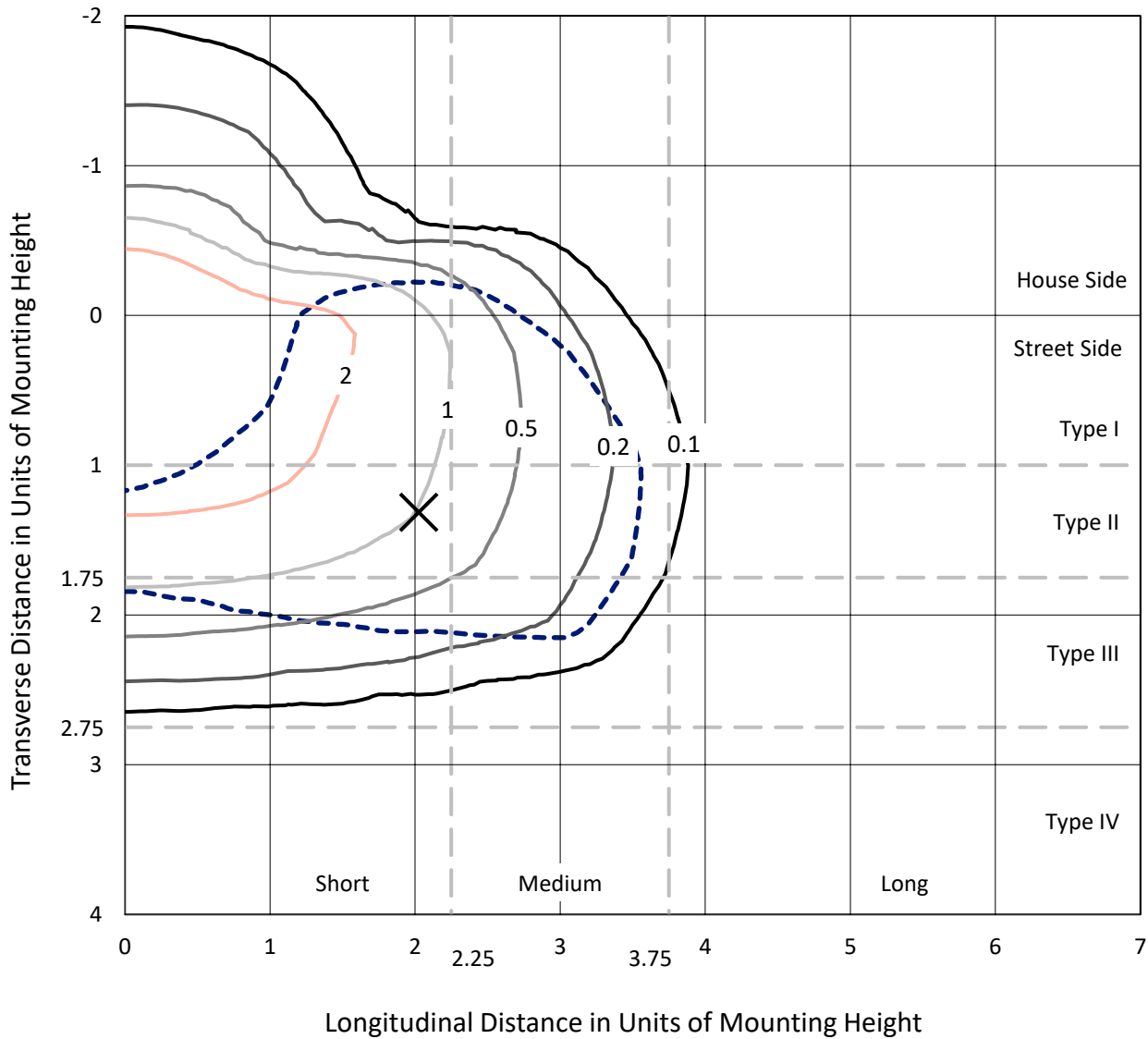
Lumens per Lamp: N/A  
Luminaire Lumens: 16011.2 lumens  
Efficiency: N/A  
Efficacy: 128.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): 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

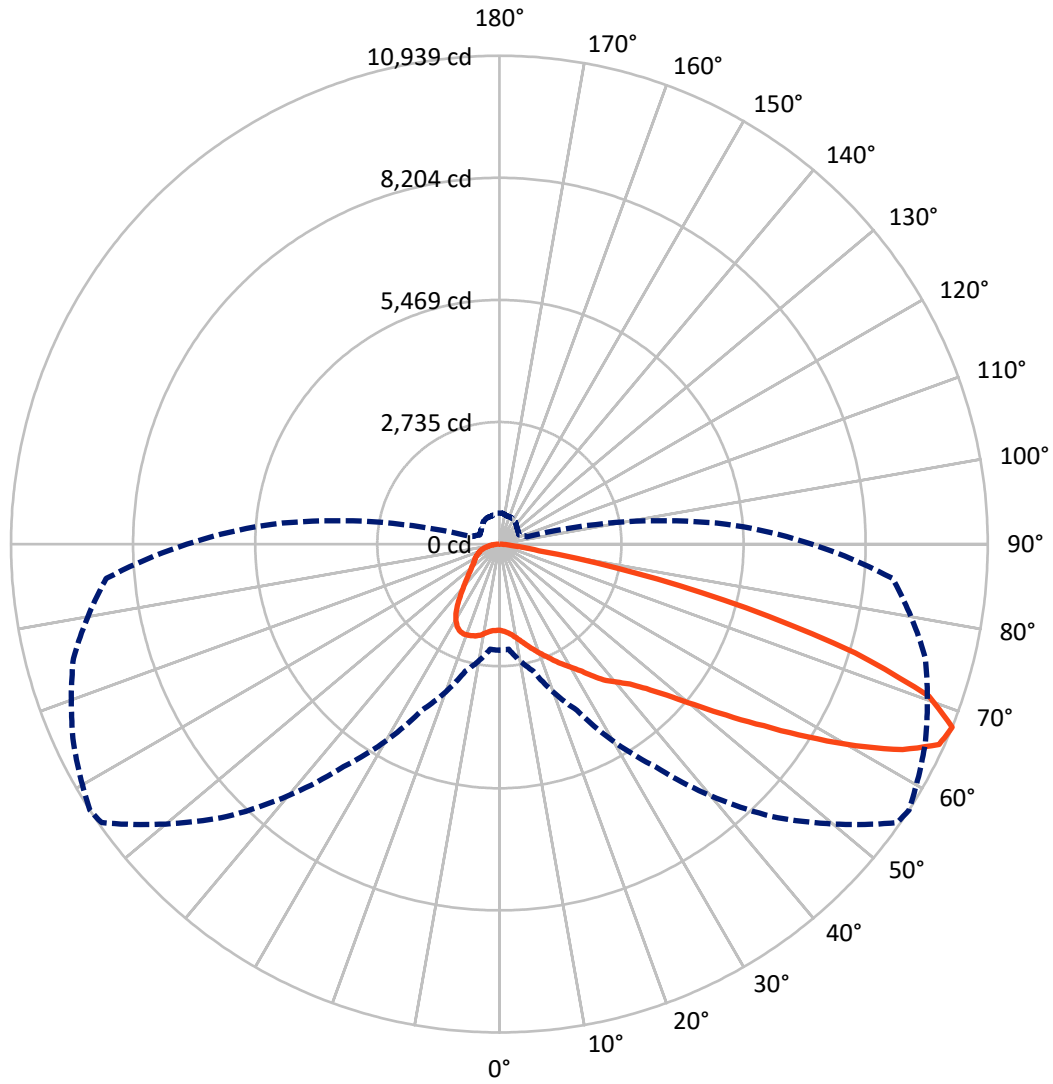
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3520.3	0.0	3520.3
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	12490.9	0.0	12490.9
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	16011.2	0.0	16011.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.3	1.2
10°-20°	633.4	4.0
20°-30°	1129.3	7.1
30°-40°	1641.8	10.3
40°-50°	2376.3	14.8
50°-60°	3718.8	23.2
60°-70°	4338.3	27.1
70°-80°	1811.0	11.3
80°-90°	170.9	1.1
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°	16011.2	100.0
0°-180°	16011.2	100.0

**Coefficient of Utilization**



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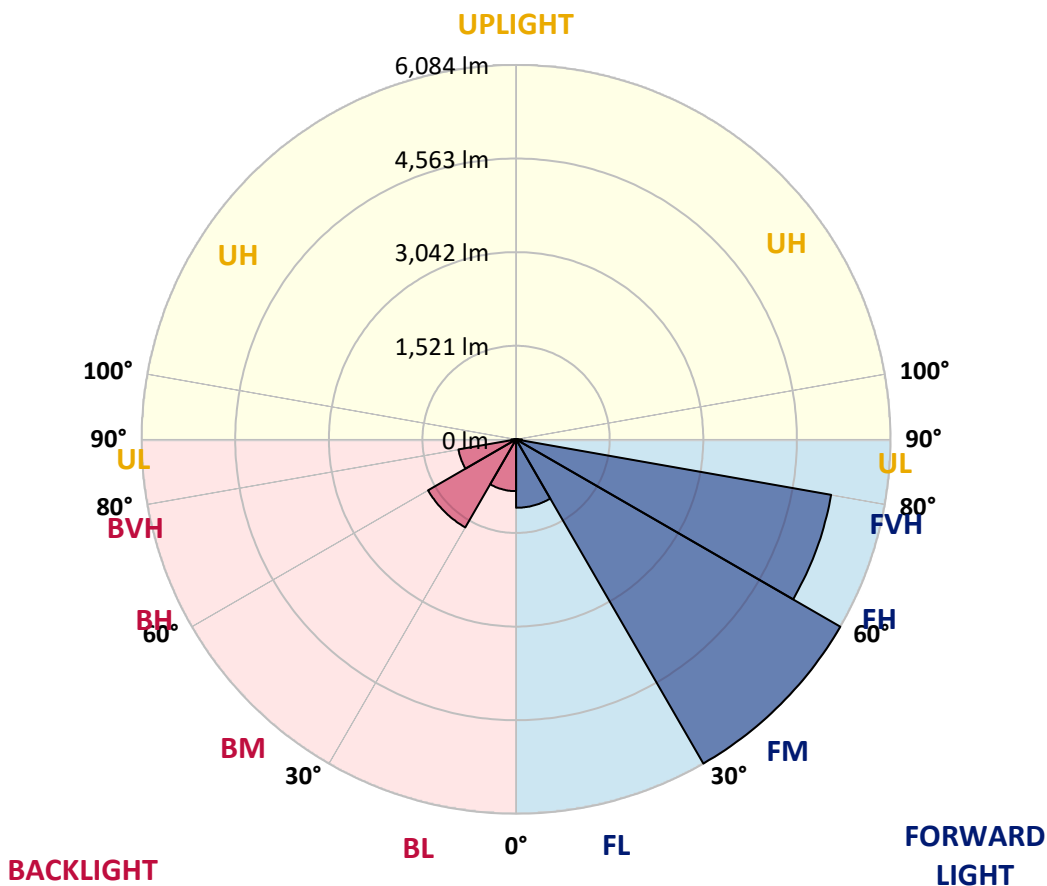
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1112.1	6.9			
FM (30°-60°)	6084.5	38.0			
FH (60°-80°)	5199.1	32.5			G3/7500
FVH (80°-90°)	95.2	0.6			G1/100
BL (0°-30°)	841.9	5.3	B2/1000		
BM (30°-60°)	1652.5	10.3	B2/2500		
BH (60°-80°)	950.1	5.9	B2/1000		G2/1000
BVH (80°-90°)	75.7	0.5			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1929.2	1929.2	1929.2	1929.2	1929.2	1929.2	1929.2	1929.2	1929.2	1929.2	1929.2
2.5°	1956.8	1954.5	1953.3	1960.2	1957.9	1956.8	1956.8	1955.6	1953.3	1944.2	1931.5
5°	2010.7	2006.1	2001.5	2007.2	2002.6	1998.1	1996.9	1994.6	1986.6	1972.8	1953.3
7.5°	2066.9	2062.3	2063.4	2066.9	2063.4	2061.1	2057.7	2055.4	2042.8	2021.0	1994.6
10°	2146.0	2146.0	2148.3	2151.8	2152.9	2149.5	2142.6	2139.1	2124.2	2096.7	2060.0
12.5°	2260.7	2258.4	2258.4	2256.1	2259.6	2256.1	2249.3	2243.5	2225.2	2189.6	2136.8
15°	2412.1	2402.9	2394.9	2380.0	2375.4	2362.8	2365.1	2361.7	2344.5	2296.3	2229.8
17.5°	2573.9	2572.7	2560.1	2530.3	2500.4	2479.8	2484.4	2483.2	2474.1	2408.7	2323.8
20°	2716.1	2721.8	2710.3	2687.4	2647.3	2608.3	2606.0	2611.7	2600.2	2534.9	2416.7
22.5°	2875.5	2870.9	2859.5	2829.6	2799.8	2758.5	2744.8	2740.2	2735.6	2661.0	2511.9
25°	3026.9	3040.7	3025.8	2998.2	2952.4	2907.6	2896.2	2900.7	2888.1	2789.5	2614.0
27.5°	3218.5	3224.2	3215.0	3177.2	3138.2	3075.1	3053.3	3053.3	3048.7	2909.9	2694.3
30°	3422.6	3438.7	3422.6	3391.7	3351.5	3260.9	3213.9	3209.3	3195.5	3033.8	2788.3
32.5°	3627.9	3639.4	3627.9	3598.1	3552.2	3473.1	3405.4	3395.1	3376.7	3169.1	2884.7
35°	3810.3	3820.6	3818.3	3825.2	3787.4	3687.6	3646.3	3641.7	3593.5	3345.8	3015.4
37.5°	4009.9	4022.5	4005.3	4019.1	4004.1	3910.1	3897.5	3874.5	3805.7	3512.1	3153.1
40°	4237.0	4248.5	4220.9	4226.7	4209.5	4156.7	4092.5	4061.5	3959.4	3692.2	3369.9
42.5°	4480.2	4506.5	4519.1	4508.8	4468.7	4438.9	4326.5	4287.5	4202.6	4016.8	3726.6
45°	4832.3	4871.3	4889.6	4863.2	4846.0	4803.6	4666.0	4618.9	4574.2	4474.4	4224.4
47.5°	5211.9	5247.5	5306.0	5317.5	5331.2	5299.1	5105.3	5059.4	5067.4	5055.9	4836.9
50°	5514.7	5544.6	5676.5	5817.5	5934.5	5943.7	5696.0	5646.6	5690.2	5726.9	5574.4
52.5°	5735.0	5761.3	5935.7	6227.0	6492.0	6688.1	6420.9	6364.7	6400.2	6482.8	6412.8
55°	5913.9	5950.6	6133.0	6580.3	7115.9	7425.6	7254.7	7183.6	7168.7	7270.8	7310.9
57.5°	6007.9	6019.4	6275.2	6856.7	7573.6	8149.4	8223.9	8143.6	8001.4	8057.6	8266.4
60°	5793.5	5813.0	6162.8	6927.8	7934.9	8867.4	9241.3	9174.8	8872.0	8903.0	9133.5
62.5°	5200.5	5228.0	5648.9	6589.5	7964.7	9346.8	10180.7	10138.3	9732.2	9564.8	9633.6
65°	4171.6	4180.8	4616.6	5752.2	7371.7	9406.5	10835.6	10825.3	10333.3	9941.0	9646.2
67.5°	2378.9	2362.8	2945.5	4102.8	6083.6	8631.1	10878.1	10938.9	10528.2	9879.0	8843.3
70°	1031.1	1033.4	1301.8	2024.4	3937.6	6976.0	10103.9	10208.2	9963.9	8847.9	7035.6
72.5°	477.1	484.0	599.9	876.3	1681.5	4327.6	8238.8	8332.9	8123.0	7081.5	5119.0
75°	337.2	343.0	400.3	502.4	773.1	1686.1	5511.3	5708.6	5810.7	5296.8	3373.3
77.5°	255.8	263.8	292.5	348.7	477.1	597.6	2636.9	3107.2	3701.3	3295.3	1737.7
80°	162.9	162.9	193.8	232.8	291.3	310.8	761.6	902.7	1811.1	1358.0	682.5
82.5°	110.1	113.6	131.9	148.0	167.5	176.6	326.9	348.7	523.0	462.2	281.0
85°	58.5	60.8	68.8	67.7	80.3	70.0	137.6	136.5	191.5	209.9	106.7
87.5°	0.0	0.0	1.1	1.1	2.3	3.4	14.9	16.1	40.1	64.2	35.6
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°	1929.2	1929.2	1929.2	1929.2	1929.2	1929.2	1929.2	1929.2	1929.2	1929.2	1929.2
2.5°	1938.4	1924.7	1931.5	1929.2	1936.1	1936.1	1923.5	1920.1	1921.2	1907.4	1902.9
5°	1955.6	1939.6	1943.0	1938.4	1945.3	1951.0	1945.3	1945.3	1952.2	1941.9	1936.1
7.5°	1994.6	1976.3	1976.3	1970.5	1978.6	1983.1	1978.6	1985.4	1998.1	1987.7	1982.0
10°	2056.6	2034.8	2035.9	2029.0	2032.5	2030.2	2011.8	2006.1	2009.5	2000.4	1995.8
12.5°	2136.8	2107.0	2107.0	2093.3	2085.2	2061.1	2023.3	2009.5	2011.8	2003.8	2000.4
15°	2213.7	2186.2	2180.4	2152.9	2116.2	2071.5	2037.1	2027.9	2030.2	2022.1	2016.4
17.5°	2304.3	2268.8	2248.1	2197.6	2130.0	2084.1	2049.7	2027.9	2009.5	1991.2	1986.6
20°	2388.0	2343.3	2305.5	2227.5	2144.9	2081.8	2017.6	1963.7	1918.9	1894.8	1889.1
22.5°	2474.1	2416.7	2350.2	2248.1	2143.7	2040.5	1922.4	1840.9	1774.4	1738.8	1745.7
25°	2555.5	2483.2	2392.6	2267.6	2107.0	1948.7	1788.2	1666.6	1590.9	1563.4	1555.3
27.5°	2623.2	2533.7	2431.6	2258.4	2031.3	1816.8	1604.6	1469.3	1395.9	1364.9	1356.9
30°	2698.9	2597.9	2487.8	2216.0	1912.0	1632.2	1397.0	1286.9	1234.2	1204.3	1205.5
32.5°	2786.0	2680.5	2567.0	2134.6	1759.5	1432.6	1226.1	1150.4	1108.0	1078.2	1073.6
35°	2903.0	2798.7	2619.7	2011.8	1565.6	1249.1	1109.1	1047.2	994.4	955.4	947.4
37.5°	3047.6	2976.4	2625.5	1847.8	1358.0	1122.9	1025.4	958.9	894.7	843.0	837.3
40°	3295.3	3213.9	2578.4	1642.5	1181.4	1041.5	955.4	878.6	804.0	746.7	738.7
42.5°	3648.6	3481.1	2477.5	1410.8	1048.4	977.2	888.9	791.4	715.7	675.6	669.8
45°	4098.2	3779.3	2326.1	1192.9	949.7	914.2	819.0	716.9	676.7	648.1	642.3
47.5°	4648.8	4126.9	2151.8	1023.1	872.9	856.8	747.8	691.6	656.1	632.0	626.3
50°	5307.1	4569.6	2008.4	890.1	804.0	790.3	724.9	676.7	648.1	628.6	624.0
52.5°	6058.4	5061.7	1938.4	794.9	744.4	730.6	716.9	673.3	649.2	634.3	628.6
55°	6838.4	5580.1	1873.0	721.5	693.9	702.0	718.0	684.8	666.4	646.9	641.2
57.5°	7591.9	6066.4	1712.5	664.1	657.2	688.2	723.8	696.2	674.4	654.9	648.1
60°	8111.5	6332.5	1440.6	618.2	629.7	671.0	708.8	679.0	651.5	643.5	640.0
62.5°	8251.5	6300.4	1118.3	571.2	596.4	633.1	669.8	650.3	621.7	634.3	635.4
65°	7924.6	5956.3	839.6	525.3	552.9	583.8	629.7	621.7	611.3	645.8	646.9
67.5°	6998.9	5111.0	640.0	485.2	508.1	546.0	617.1	650.3	652.6	696.2	691.6
70°	5295.7	3818.3	501.2	447.3	473.7	546.0	657.2	672.1	644.6	684.8	675.6
72.5°	3661.2	2519.9	426.7	414.1	431.3	520.7	656.1	656.1	626.3	626.3	609.1
75°	2274.5	1481.9	371.6	371.6	371.6	455.4	637.7	604.5	551.7	527.6	513.9
77.5°	1122.9	720.3	312.0	323.5	310.8	380.8	520.7	494.4	462.2	437.0	427.8
80°	479.4	360.2	252.3	265.0	250.0	286.7	412.9	407.2	376.2	343.0	332.6
82.5°	220.2	185.8	201.9	207.6	182.4	215.6	301.7	301.7	284.5	238.6	221.4
85°	94.1	98.6	139.9	139.9	114.7	121.6	161.7	153.7	137.6	112.4	103.2
87.5°	32.1	48.2	71.1	61.9	24.1	10.3	5.7	2.3	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)