

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: P633830

Luminaire Tested: GWS-SA2F-740-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633830
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-740-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15669.6 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

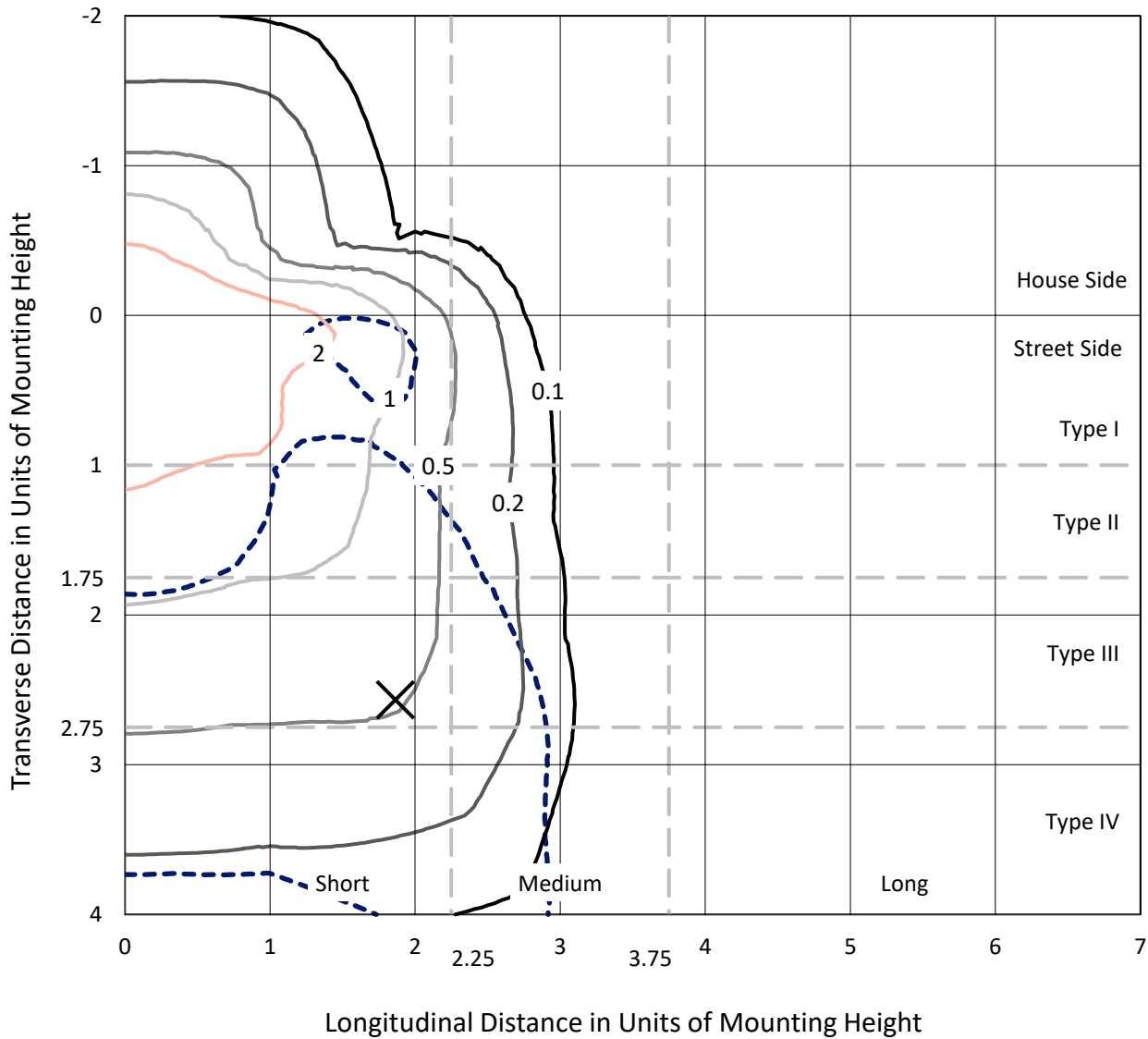
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

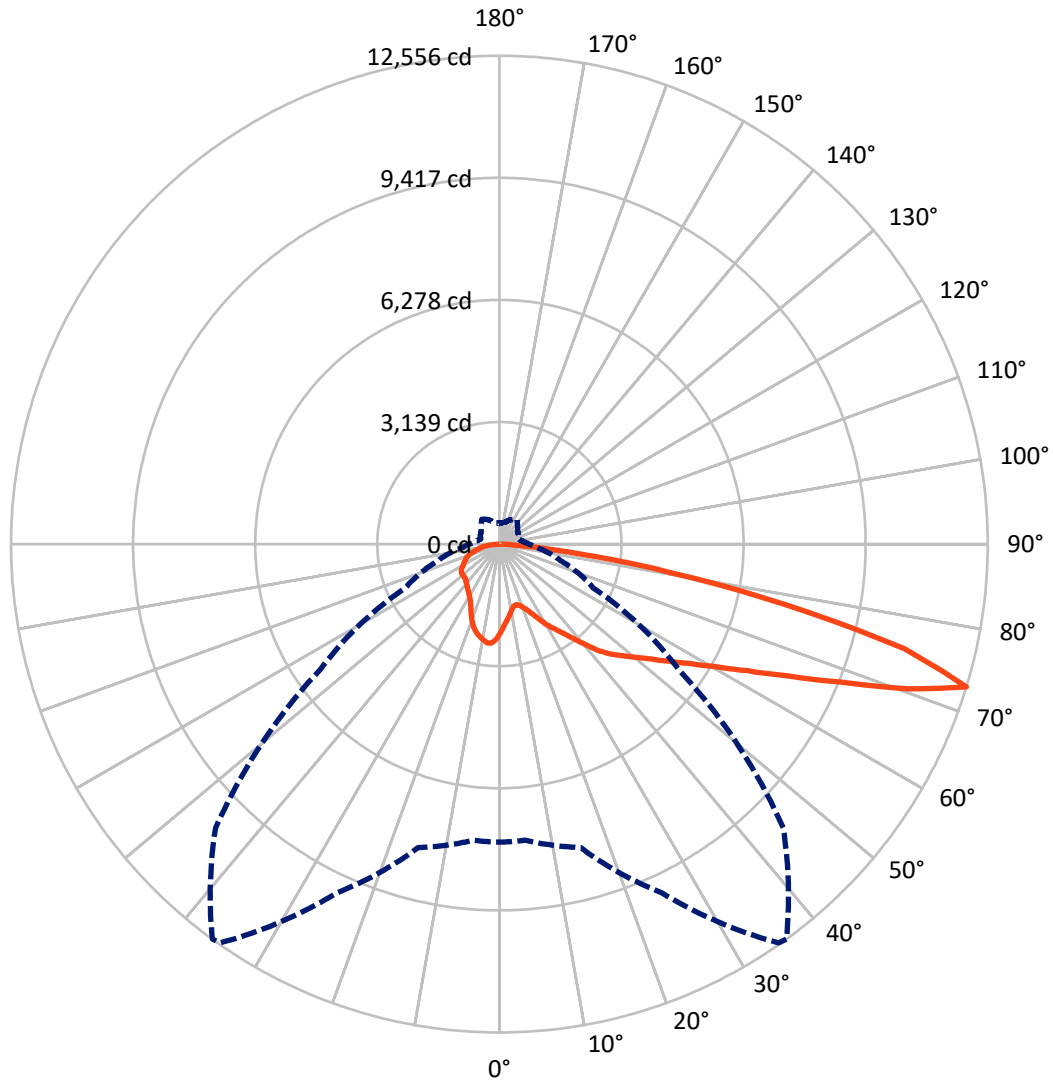
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3612.5	0.0	3612.5
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	12057.1	0.0	12057.1
	% Fixture	76.9	0.0	76.9
Total	Lumens	15669.6	0.0	15669.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.4	1.4
10°-20°	604.8	3.9
20°-30°	1001.6	6.4
30°-40°	1500.0	9.6
40°-50°	2188.4	14.0
50°-60°	3114.8	19.9
60°-70°	3935.3	25.1
70°-80°	2804.2	17.9
80°-90°	306.1	2.0
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°	15669.6	100.0
0°-180°	15669.6	100.0

Coefficient of Utilization



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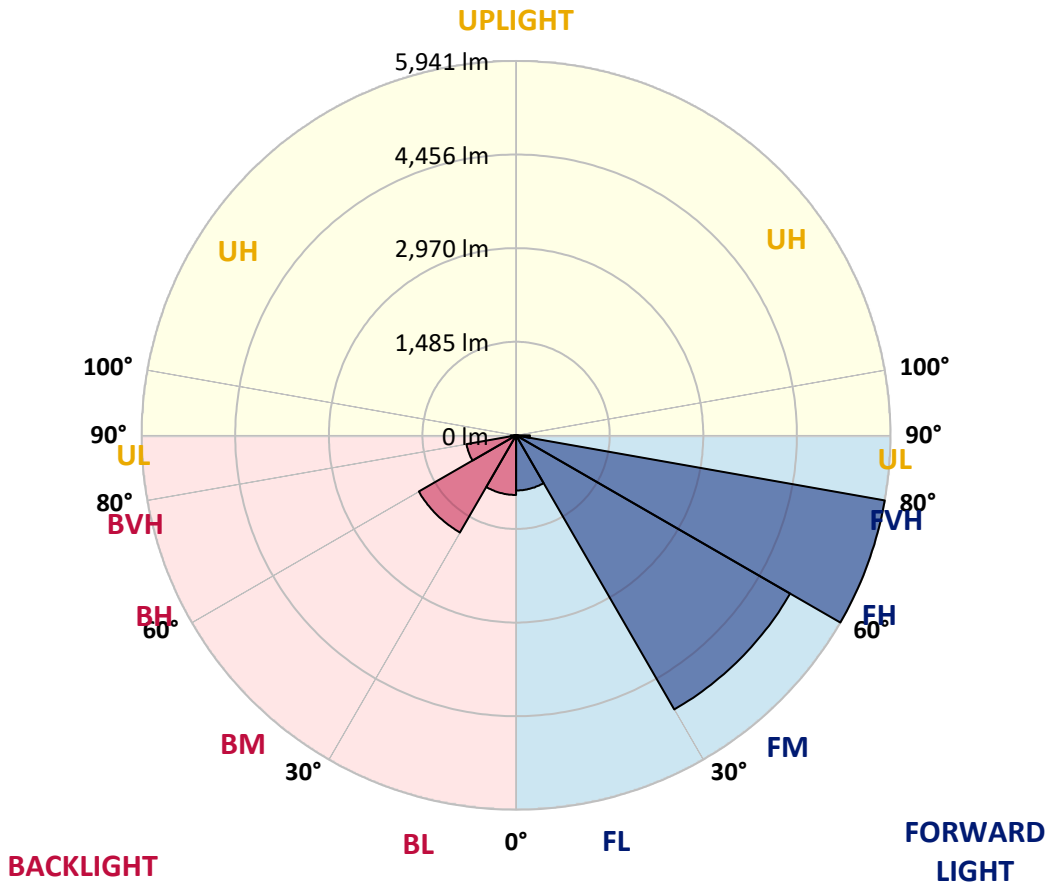
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	874.8	5.6			
FM (30°-60°)	5021.7	32.0			
FH (60°-80°)	5940.9	37.9			G3/7500
FVH (80°-90°)	219.7	1.4			G2/225
BL (0°-30°)	946.0	6.0	B2/1000		
BM (30°-60°)	1781.5	11.4	B2/2500		
BH (60°-80°)	798.6	5.1	B2/1000		G2/1000
BVH (80°-90°)	86.4	0.6			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2293.3	2293.3	2293.3	2293.3	2293.3	2293.3	2293.3	2293.3	2293.3	2293.3	2293.3
2.5°	2092.1	2088.6	2081.7	2102.6	2123.5	2121.2	2150.3	2178.2	2208.4	2239.8	2281.7
5°	1924.7	1922.3	1916.5	1947.9	1979.3	1978.2	2025.8	2071.2	2132.8	2200.3	2284.0
7.5°	1757.2	1751.4	1759.5	1799.1	1843.3	1847.9	1913.0	1987.5	2077.0	2178.2	2296.8
10°	1609.5	1608.3	1611.8	1656.0	1722.3	1727.0	1810.7	1914.2	2032.8	2167.7	2325.9
12.5°	1571.1	1568.8	1559.5	1581.6	1631.6	1638.6	1730.5	1857.2	2002.6	2173.5	2365.4
15°	1633.9	1628.1	1595.6	1585.1	1609.5	1615.3	1693.2	1823.5	1985.1	2184.0	2415.4
17.5°	1742.1	1738.6	1677.0	1633.9	1650.2	1654.9	1713.0	1817.7	1980.5	2204.9	2477.1
20°	1900.2	1885.1	1788.6	1723.5	1723.5	1730.5	1765.3	1843.3	1986.3	2230.5	2546.8
22.5°	2109.6	2079.3	1943.3	1854.9	1831.6	1840.9	1856.1	1907.2	2010.7	2273.5	2634.1
25°	2344.5	2316.6	2154.9	2030.5	1997.9	2001.4	1988.6	1997.9	2064.2	2332.9	2742.2
27.5°	2594.5	2575.9	2403.8	2245.6	2194.5	2194.5	2149.1	2127.0	2138.6	2400.3	2863.2
30°	2817.8	2792.2	2646.8	2473.6	2406.1	2406.1	2320.1	2272.4	2244.5	2482.9	3024.8
32.5°	2935.3	2920.1	2823.6	2691.0	2608.5	2595.7	2521.3	2465.4	2400.3	2605.0	3243.4
35°	3088.8	3085.3	3027.1	2923.6	2819.0	2800.4	2749.2	2705.0	2592.2	2757.3	3534.2
37.5°	3281.8	3276.0	3266.7	3205.1	3079.5	3076.0	3030.6	2977.1	2830.6	2977.1	3886.5
40°	3498.1	3487.7	3476.0	3474.9	3399.3	3386.5	3383.0	3322.5	3117.8	3242.3	4254.0
42.5°	3795.8	3759.8	3650.5	3699.3	3755.1	3743.5	3787.7	3697.0	3476.0	3557.4	4601.8
45°	4162.2	4073.8	3857.5	3871.4	4012.1	4035.4	4188.9	4166.8	3870.3	3921.4	4968.1
47.5°	4382.0	4305.2	4104.0	4092.4	4268.0	4297.1	4630.8	4672.7	4294.7	4359.9	5420.5
50°	4562.2	4508.7	4343.6	4359.9	4545.9	4575.0	5069.3	5158.8	4694.8	4808.8	5946.1
52.5°	4779.7	4702.9	4575.0	4651.8	4879.7	4914.6	5556.5	5653.0	5055.3	5301.8	6490.4
55°	4901.8	4870.4	4872.7	4990.2	5276.3	5323.9	6067.1	6050.8	5385.6	5724.0	6899.7
57.5°	5183.2	5171.6	5278.6	5322.8	5739.1	5800.7	6577.6	6438.0	5685.6	6050.8	7096.3
60°	5679.8	5650.7	5743.8	5811.2	6311.3	6398.5	7147.4	6817.1	5889.1	6293.8	7030.0
62.5°	6377.6	6341.5	6345.0	6452.0	7077.6	7169.5	7781.2	7133.5	5951.9	6331.0	6610.1
65°	7245.1	7192.8	7133.5	7278.8	8095.2	8172.0	8470.8	7363.7	5801.9	5972.9	5733.3
67.5°	8160.3	8117.3	8047.5	8352.2	9412.8	9459.3	9244.2	7344.0	5326.3	5014.6	4021.4
70°	8213.8	8224.3	8554.6	9657.0	11132.8	11144.4	9975.7	6946.2	4313.3	3250.4	2003.7
72.5°	7662.6	7645.2	8075.4	9895.4	12516.7	12556.3	10321.1	5627.5	2665.5	1621.1	939.7
75°	6224.1	6254.3	6706.7	8658.1	10728.1	10763.0	8413.9	3317.9	1266.4	793.1	601.2
77.5°	2679.4	2848.0	3740.0	6099.6	7683.5	7575.4	4336.6	1344.4	675.7	565.2	460.5
80°	773.4	839.6	1332.7	2900.4	4604.1	4522.7	1716.5	503.6	471.0	424.5	330.3
82.5°	250.0	276.8	488.4	1154.8	2063.1	2060.7	651.2	297.7	308.2	288.4	212.8
85°	69.8	80.2	150.0	350.0	638.5	625.7	188.4	140.7	164.0	166.3	105.8
87.5°	0.0	0.0	1.2	2.3	2.3	2.3	4.7	20.9	47.7	60.5	43.0
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°	2293.3	2293.3	2293.3	2293.3	2293.3	2293.3	2293.3	2293.3	2293.3	2293.3	2293.3
2.5°	2307.3	2303.8	2351.5	2388.7	2423.6	2446.8	2453.8	2458.5	2467.8	2472.4	2467.8
5°	2323.6	2341.0	2420.1	2478.2	2524.7	2552.7	2553.8	2551.5	2558.5	2552.7	2549.2
7.5°	2358.4	2392.2	2492.2	2553.8	2584.1	2585.2	2557.3	2524.7	2508.5	2494.5	2489.9
10°	2405.0	2455.0	2564.3	2605.0	2595.7	2552.7	2491.0	2439.8	2410.8	2389.8	2385.2
12.5°	2468.9	2524.7	2628.2	2627.1	2568.9	2492.2	2420.1	2358.4	2316.6	2292.2	2284.0
15°	2529.4	2600.3	2674.8	2620.1	2528.2	2435.2	2342.2	2259.6	2203.8	2165.4	2158.4
17.5°	2603.8	2679.4	2708.5	2598.0	2477.1	2357.3	2232.8	2124.7	2049.1	2003.7	2000.3
20°	2689.9	2757.3	2724.8	2559.6	2410.8	2253.8	2085.2	1964.2	1882.8	1838.6	1842.1
22.5°	2789.9	2838.7	2729.4	2507.3	2318.9	2107.2	1918.8	1802.6	1747.9	1724.6	1725.8
25°	2896.9	2928.3	2721.3	2436.4	2178.2	1928.2	1747.9	1694.4	1689.8	1683.9	1686.3
27.5°	3023.6	3016.7	2696.9	2336.3	1988.6	1720.0	1628.1	1642.1	1660.7	1658.4	1660.7
30°	3193.4	3127.1	2665.5	2198.0	1763.0	1545.5	1557.2	1596.7	1621.1	1623.5	1630.4
32.5°	3387.6	3249.3	2615.5	2009.6	1547.9	1447.9	1490.9	1538.6	1567.6	1573.5	1582.8
35°	3619.1	3388.8	2527.1	1774.6	1393.2	1389.7	1429.3	1461.8	1493.2	1495.5	1495.5
37.5°	3885.4	3528.4	2386.4	1515.3	1297.8	1339.7	1376.9	1383.9	1392.0	1385.1	1388.5
40°	4129.6	3663.3	2186.3	1279.2	1219.9	1295.5	1326.9	1303.7	1278.1	1260.6	1264.1
42.5°	4334.3	3755.1	1921.2	1114.1	1140.8	1256.0	1280.4	1232.7	1182.7	1150.1	1154.8
45°	4564.5	3840.0	1609.5	1002.5	1073.4	1228.1	1244.3	1182.7	1118.7	1069.9	1062.9
47.5°	4882.0	4013.3	1332.7	924.5	1025.7	1212.9	1239.7	1156.0	1072.2	999.0	990.8
50°	5273.9	4258.7	1101.3	873.4	1003.6	1204.8	1238.5	1126.9	1026.9	940.8	935.0
52.5°	5701.9	4498.2	930.4	833.8	981.5	1180.4	1232.7	1094.3	979.2	886.2	879.2
55°	5986.8	4592.4	815.2	796.6	945.5	1142.0	1209.5	1062.9	907.1	822.2	811.7
57.5°	6070.5	4471.5	735.0	762.9	899.0	1088.5	1165.3	996.6	862.9	795.5	787.3
60°	5926.3	4166.8	685.0	735.0	847.8	1019.9	1088.5	958.3	828.0	767.5	761.7
62.5°	5519.3	3697.0	646.6	705.9	795.5	947.8	1039.7	911.7	789.6	742.0	733.8
65°	4700.6	3031.8	615.2	675.7	745.4	879.2	986.2	865.2	747.8	711.7	702.4
67.5°	3287.6	2129.3	581.5	639.6	695.4	812.9	930.4	822.2	704.7	678.0	668.7
70°	1607.2	1129.2	540.8	597.8	641.9	745.4	874.5	769.9	647.8	632.6	619.8
72.5°	765.2	631.5	493.1	540.8	568.7	655.9	781.5	694.3	580.3	547.7	525.6
75°	512.9	448.9	430.3	473.3	480.3	550.1	669.9	598.9	511.7	474.5	455.9
77.5°	388.4	343.1	361.7	400.1	386.1	452.4	551.2	533.8	461.7	428.0	418.7
80°	273.3	250.0	287.2	310.5	300.0	384.9	496.6	457.0	380.3	343.1	336.1
82.5°	172.1	167.5	211.7	215.1	218.6	304.7	408.2	359.3	295.4	243.1	225.6
85°	86.1	95.4	126.8	126.8	125.6	157.0	232.6	202.4	159.3	126.8	123.3
87.5°	29.1	40.7	54.7	44.2	33.7	26.7	30.2	37.2	39.5	38.4	38.4
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)