

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: P633885

Luminaire Tested: GWS-SA2F-750-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633885
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-750-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16028.7 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

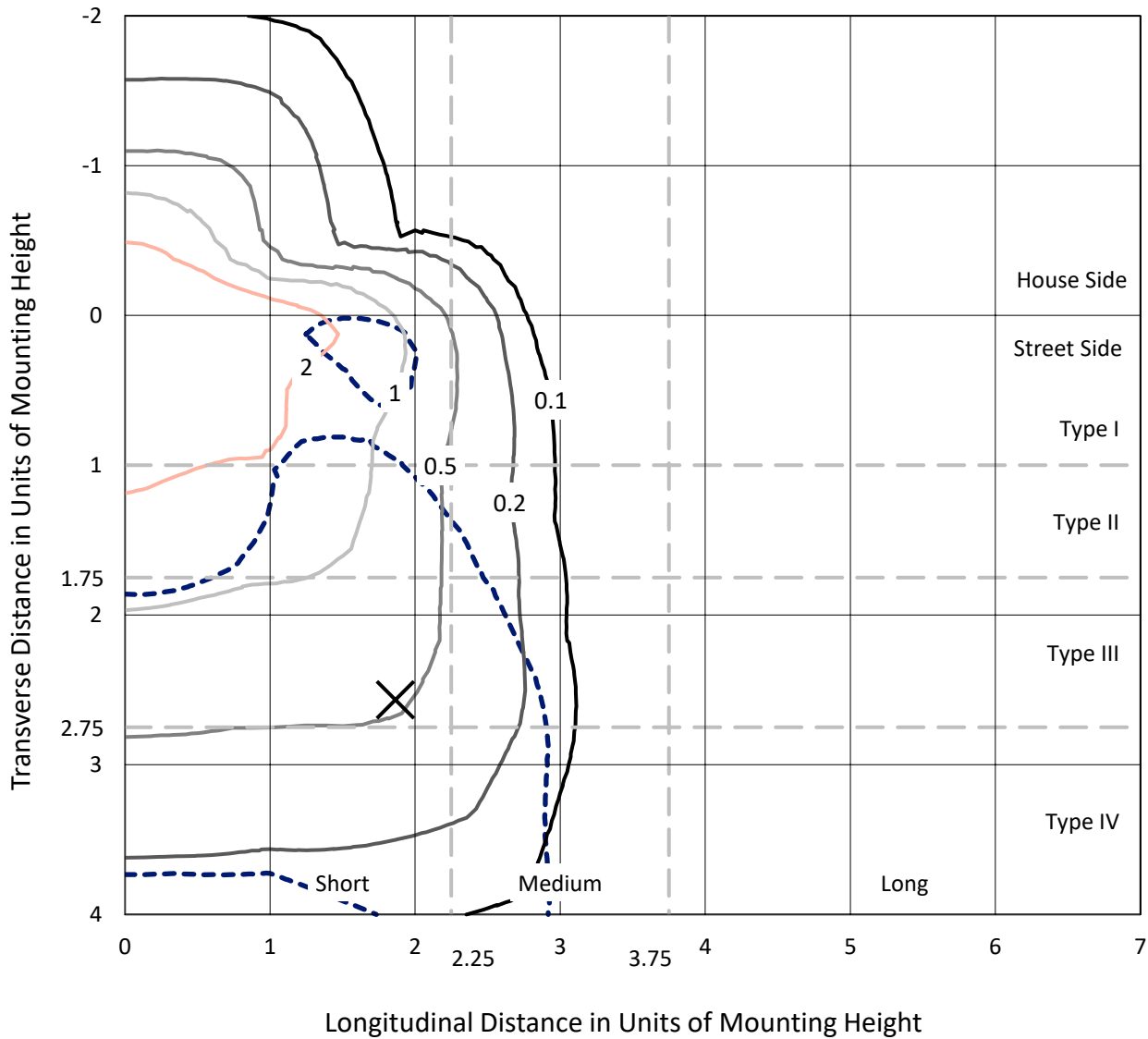
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

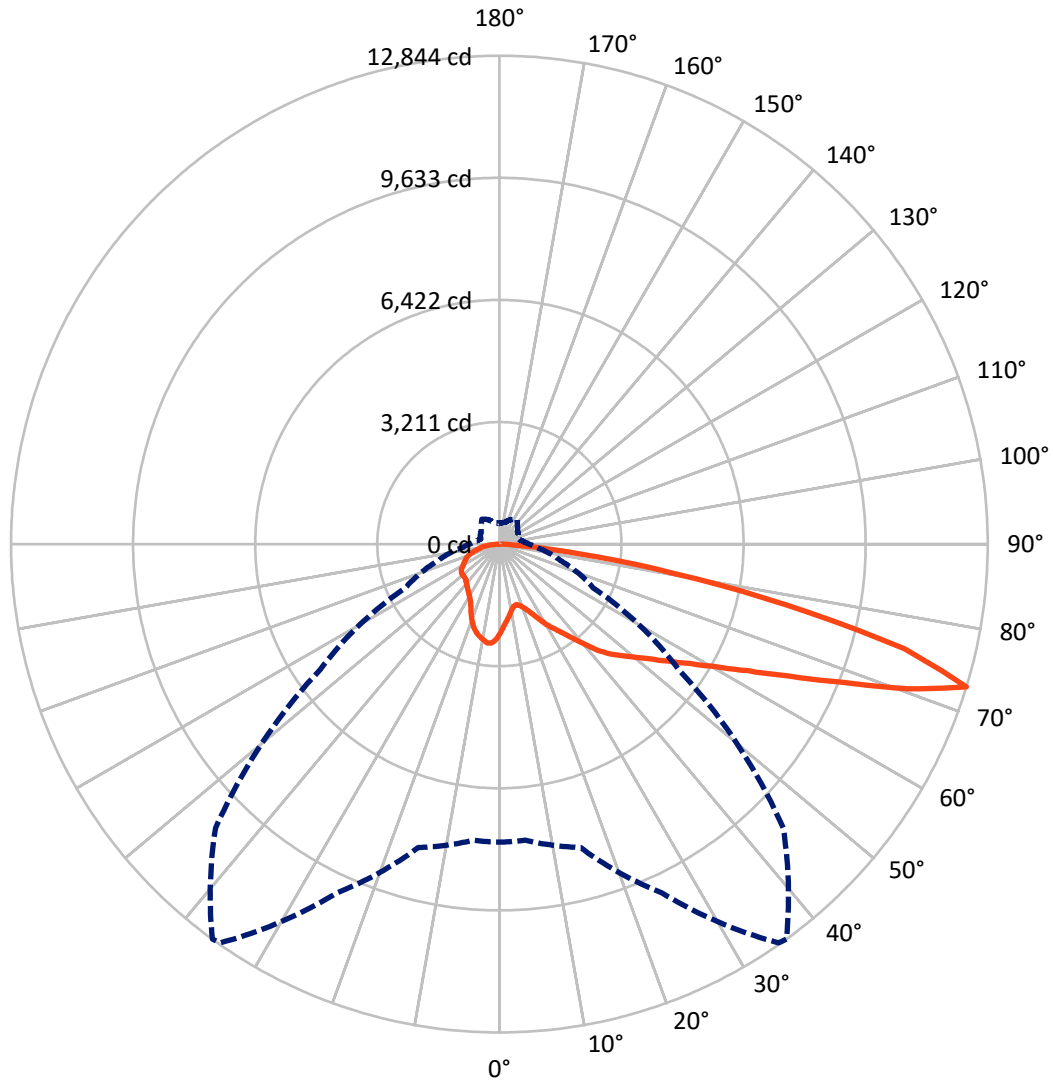
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	3695.3	0.0	3695.3
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	12333.4	0.0	12333.4
	% Fixture	76.9	0.0	76.9
Total	Lumens	16028.7	0.0	16028.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.3	1.4
10°-20°	618.7	3.9
20°-30°	1024.6	6.4
30°-40°	1534.4	9.6
40°-50°	2238.6	14.0
50°-60°	3186.1	19.9
60°-70°	4025.5	25.1
70°-80°	2868.5	17.9
80°-90°	313.1	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°	16028.7	100.0
0°-180°	16028.7	100.0

Coefficient of Utilization



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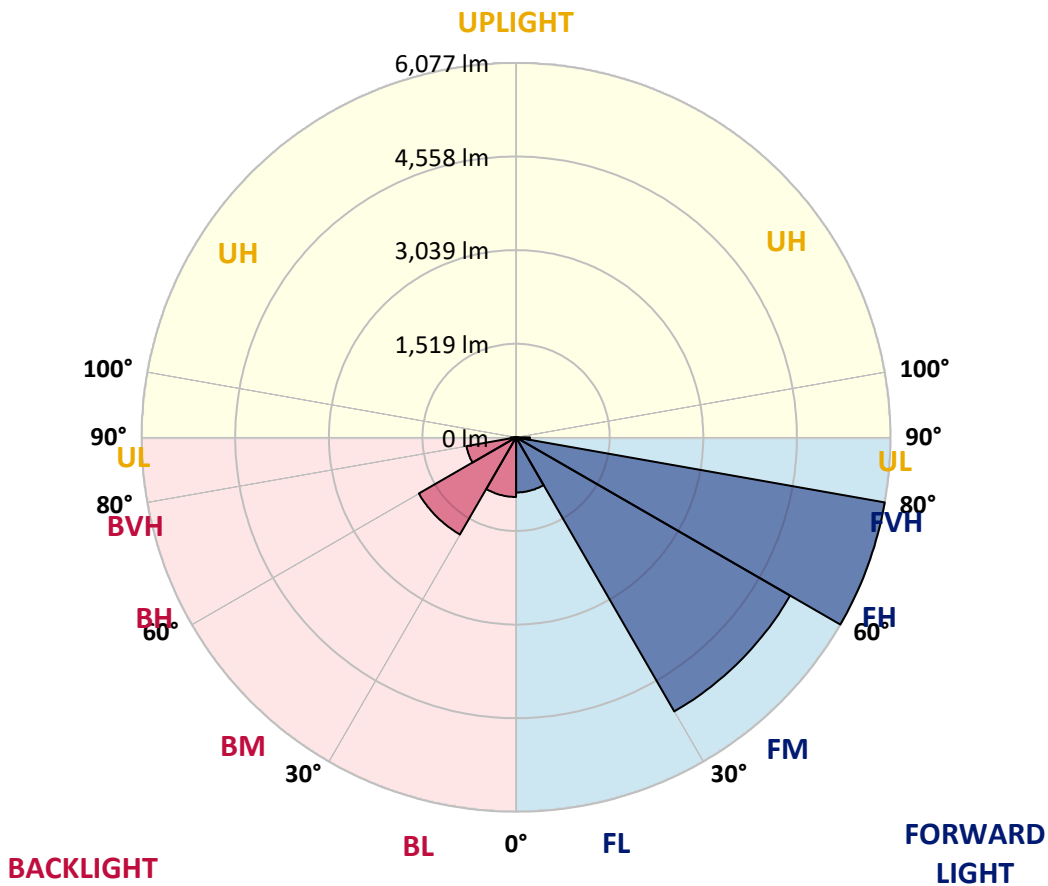
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	894.8	5.6			
FM (30°-60°)	5136.8	32.0			
FH (60°-80°)	6077.0	37.9			G3/7500
FVH (80°-90°)	224.8	1.4			G2/225
BL (0°-30°)	967.7	6.0	B2/1000		
BM (30°-60°)	1822.3	11.4	B2/2500		
BH (60°-80°)	816.9	5.1	B2/1000		G2/1000
BVH (80°-90°)	88.4	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°	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9
2.5°	2140.1	2136.5	2129.4	2150.8	2172.2	2169.8	2199.6	2228.1	2259.0	2291.2	2334.0
5°	1968.8	1966.4	1960.4	1992.6	2024.7	2023.5	2072.3	2118.7	2181.7	2250.7	2336.4
7.5°	1797.5	1791.5	1799.9	1840.3	1885.5	1890.3	1956.9	2033.0	2124.6	2228.1	2349.4
10°	1646.4	1645.2	1648.8	1694.0	1761.8	1766.5	1852.2	1958.1	2079.4	2217.4	2379.2
12.5°	1607.1	1604.8	1595.2	1617.8	1669.0	1676.1	1770.1	1899.8	2048.5	2223.3	2419.6
15°	1671.4	1665.4	1632.1	1621.4	1646.4	1652.3	1732.0	1865.3	2030.6	2234.1	2470.8
17.5°	1782.0	1778.4	1715.4	1671.4	1688.0	1692.8	1752.3	1859.3	2025.9	2255.5	2533.8
20°	1943.8	1928.3	1829.6	1763.0	1763.0	1770.1	1805.8	1885.5	2031.8	2281.6	2605.2
22.5°	2157.9	2127.0	1987.8	1897.4	1873.6	1883.1	1898.6	1950.9	2056.8	2325.6	2694.4
25°	2398.2	2369.7	2204.3	2077.0	2043.7	2047.3	2034.2	2043.7	2111.5	2386.3	2805.1
27.5°	2654.0	2634.9	2458.9	2297.1	2244.8	2244.8	2198.4	2175.8	2187.7	2455.3	2928.8
30°	2882.4	2856.2	2707.5	2530.3	2461.3	2461.3	2373.2	2324.5	2295.9	2539.8	3094.1
32.5°	3002.5	2987.1	2888.3	2752.7	2668.3	2655.2	2579.0	2521.9	2455.3	2664.7	3317.8
35°	3159.6	3156.0	3096.5	2990.6	2883.6	2864.5	2812.2	2767.0	2651.6	2820.5	3615.2
37.5°	3357.0	3351.1	3341.6	3278.5	3150.0	3146.5	3100.1	3045.4	2895.5	3045.4	3975.6
40°	3578.3	3567.6	3555.7	3554.5	3477.2	3464.1	3460.5	3398.7	3189.3	3316.6	4351.5
42.5°	3882.8	3845.9	3734.1	3784.1	3841.2	3829.3	3874.5	3781.7	3555.7	3639.0	4707.2
45°	4257.5	4167.1	3945.9	3960.1	4104.1	4127.9	4284.9	4262.3	3959.0	4011.3	5081.9
47.5°	4482.4	4403.9	4198.1	4186.2	4365.8	4395.5	4736.9	4779.8	4393.2	4459.8	5544.7
50°	4666.8	4612.0	4443.1	4459.8	4650.1	4679.8	5185.4	5277.0	4802.4	4919.0	6082.4
52.5°	4889.2	4810.7	4679.8	4758.4	4991.5	5027.2	5683.9	5782.6	5171.1	5423.3	6639.1
55°	5014.1	4982.0	4984.4	5104.5	5397.2	5445.9	6206.1	6189.4	5509.0	5855.2	7057.8
57.5°	5302.0	5290.1	5399.6	5444.8	5870.6	5933.7	6728.3	6585.6	5815.9	6189.4	7258.9
60°	5810.0	5780.2	5875.4	5944.4	6455.9	6545.1	7311.2	6973.4	6024.1	6438.1	7191.1
62.5°	6523.7	6486.8	6490.4	6599.8	7239.8	7333.8	7959.5	7296.9	6088.3	6476.1	6761.6
65°	7411.1	7357.6	7296.9	7445.6	8280.7	8359.3	8665.0	7532.5	5934.9	6109.7	5864.7
67.5°	8347.4	8303.3	8232.0	8543.6	9628.5	9676.1	9456.1	7512.3	5448.3	5129.5	4113.6
70°	8402.1	8412.8	8750.6	9878.4	11387.9	11399.8	10204.3	7105.4	4412.2	3324.9	2049.7
72.5°	7838.2	7820.4	8260.5	10122.2	12803.6	12844.0	10557.6	5756.4	2726.5	1658.3	961.2
75°	6366.7	6397.6	6860.4	8856.5	10974.0	11009.7	8606.7	3393.9	1295.5	811.3	615.0
77.5°	2740.8	2913.3	3825.7	6239.4	7859.6	7749.0	4436.0	1375.2	691.2	578.1	471.1
80°	791.1	858.9	1363.3	2966.8	4709.6	4626.3	1755.8	515.1	481.8	434.2	337.8
82.5°	255.8	283.1	499.6	1181.3	2110.3	2108.0	666.2	304.5	315.2	295.0	217.7
85°	71.4	82.1	153.5	358.1	653.1	640.0	192.7	143.9	167.7	170.1	108.3
87.5°	0.0	0.0	1.2	2.4	2.4	2.4	4.8	21.4	48.8	61.9	44.0
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°	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9	2345.9
2.5°	2360.1	2356.6	2405.4	2443.4	2479.1	2502.9	2510.0	2514.8	2524.3	2529.1	2524.3
5°	2376.8	2394.6	2475.5	2535.0	2582.6	2611.2	2612.3	2610.0	2617.1	2611.2	2607.6
7.5°	2412.5	2447.0	2549.3	2612.3	2643.3	2644.5	2615.9	2582.6	2565.9	2551.7	2546.9
10°	2460.1	2511.2	2623.0	2664.7	2655.2	2611.2	2548.1	2495.8	2466.0	2444.6	2439.8
12.5°	2525.5	2582.6	2688.5	2687.3	2627.8	2549.3	2475.5	2412.5	2369.7	2344.7	2336.4
15°	2587.4	2659.9	2736.1	2680.1	2586.2	2491.0	2395.8	2311.4	2254.3	2215.0	2207.9
17.5°	2663.5	2740.8	2770.6	2657.5	2533.8	2411.3	2284.0	2173.4	2096.1	2049.7	2046.1
20°	2751.5	2820.5	2787.2	2618.3	2466.0	2305.4	2132.9	2009.2	1925.9	1880.7	1884.3
22.5°	2853.8	2903.8	2792.0	2564.8	2372.0	2155.5	1962.8	1843.9	1788.0	1764.2	1765.4
25°	2963.3	2995.4	2783.6	2492.2	2228.1	1972.3	1788.0	1733.2	1728.5	1722.5	1724.9
27.5°	3092.9	3085.8	2758.7	2389.9	2034.2	1759.4	1665.4	1679.7	1698.7	1696.4	1698.7
30°	3266.6	3198.8	2726.5	2248.3	1803.4	1581.0	1592.9	1633.3	1658.3	1660.7	1667.8
32.5°	3465.3	3323.7	2675.4	2055.6	1583.3	1481.0	1525.1	1573.8	1603.6	1609.5	1619.0
35°	3702.0	3466.5	2585.0	1815.3	1425.1	1421.6	1462.0	1495.3	1527.4	1529.8	1529.8
37.5°	3974.4	3609.2	2441.0	1550.0	1327.6	1370.4	1408.5	1415.6	1423.9	1416.8	1420.4
40°	4224.2	3747.2	2236.4	1308.5	1247.9	1325.2	1357.3	1333.5	1307.4	1289.5	1293.1
42.5°	4433.6	3841.2	1965.2	1139.6	1167.0	1284.8	1309.7	1261.0	1209.8	1176.5	1181.3
45°	4669.1	3928.0	1646.4	1025.4	1098.0	1256.2	1272.9	1209.8	1144.4	1094.4	1087.3
47.5°	4993.9	4105.3	1363.3	945.7	1049.2	1240.7	1268.1	1182.5	1096.8	1021.9	1013.5
50°	5394.8	4356.3	1126.5	893.4	1026.6	1232.4	1266.9	1152.7	1050.4	962.4	956.4
52.5°	5832.6	4601.3	951.7	852.9	1004.0	1207.4	1261.0	1119.4	1001.6	906.5	899.3
55°	6124.0	4697.7	833.9	814.9	967.1	1168.2	1237.2	1087.3	927.9	841.0	830.3
57.5°	6209.7	4574.0	751.8	780.4	919.6	1113.5	1192.0	1019.5	882.7	813.7	805.4
60°	6062.2	4262.3	700.7	751.8	867.2	1043.3	1113.5	980.2	847.0	785.1	779.2
62.5°	5645.8	3781.7	661.4	722.1	813.7	969.5	1063.5	932.6	807.7	759.0	750.6
65°	4808.3	3101.3	629.3	691.2	762.5	899.3	1008.8	885.1	764.9	728.0	718.5
67.5°	3363.0	2178.1	594.8	654.3	711.4	831.5	951.7	841.0	720.9	693.5	684.0
70°	1644.0	1155.1	553.2	611.4	656.7	762.5	894.6	787.5	662.6	647.1	634.1
72.5°	782.8	645.9	504.4	553.2	581.7	670.9	799.4	710.2	593.6	560.3	537.7
75°	524.6	459.2	440.1	484.2	491.3	562.7	685.2	612.6	523.4	485.4	466.3
77.5°	397.3	350.9	370.0	409.2	394.9	462.8	563.9	546.0	472.3	437.8	428.3
80°	279.6	255.8	293.8	317.6	306.9	393.8	508.0	467.5	389.0	350.9	343.8
82.5°	176.1	171.3	216.5	220.1	223.6	311.7	417.5	367.6	302.2	248.6	230.8
85°	88.0	97.5	129.7	129.7	128.5	160.6	237.9	207.0	163.0	129.7	126.1
87.5°	29.7	41.6	55.9	45.2	34.5	27.4	30.9	38.1	40.4	39.3	39.3
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)