

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: P633775

Luminaire Tested: GWS-SA2F-735-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633775
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-735-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15454.9 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

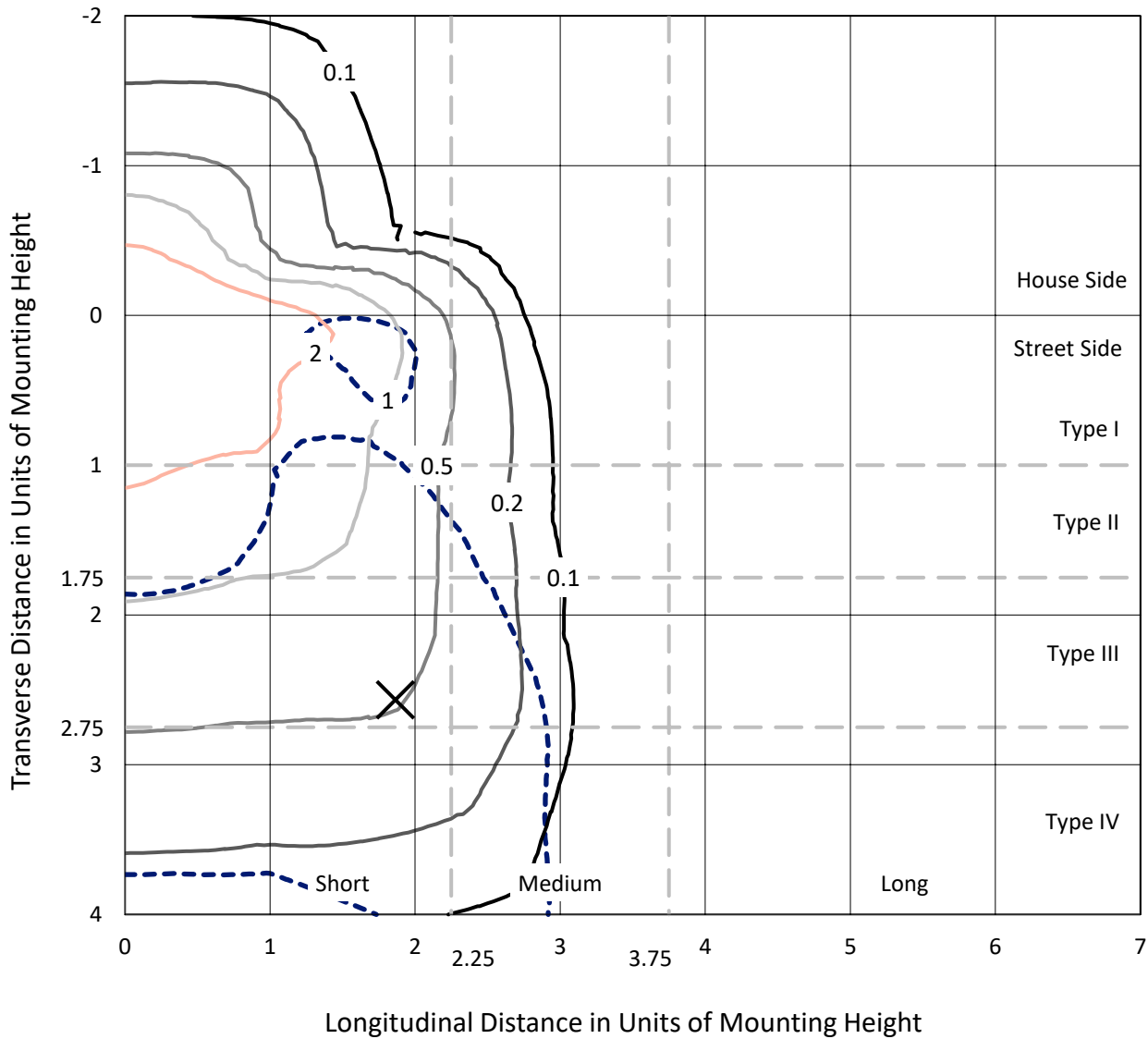
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

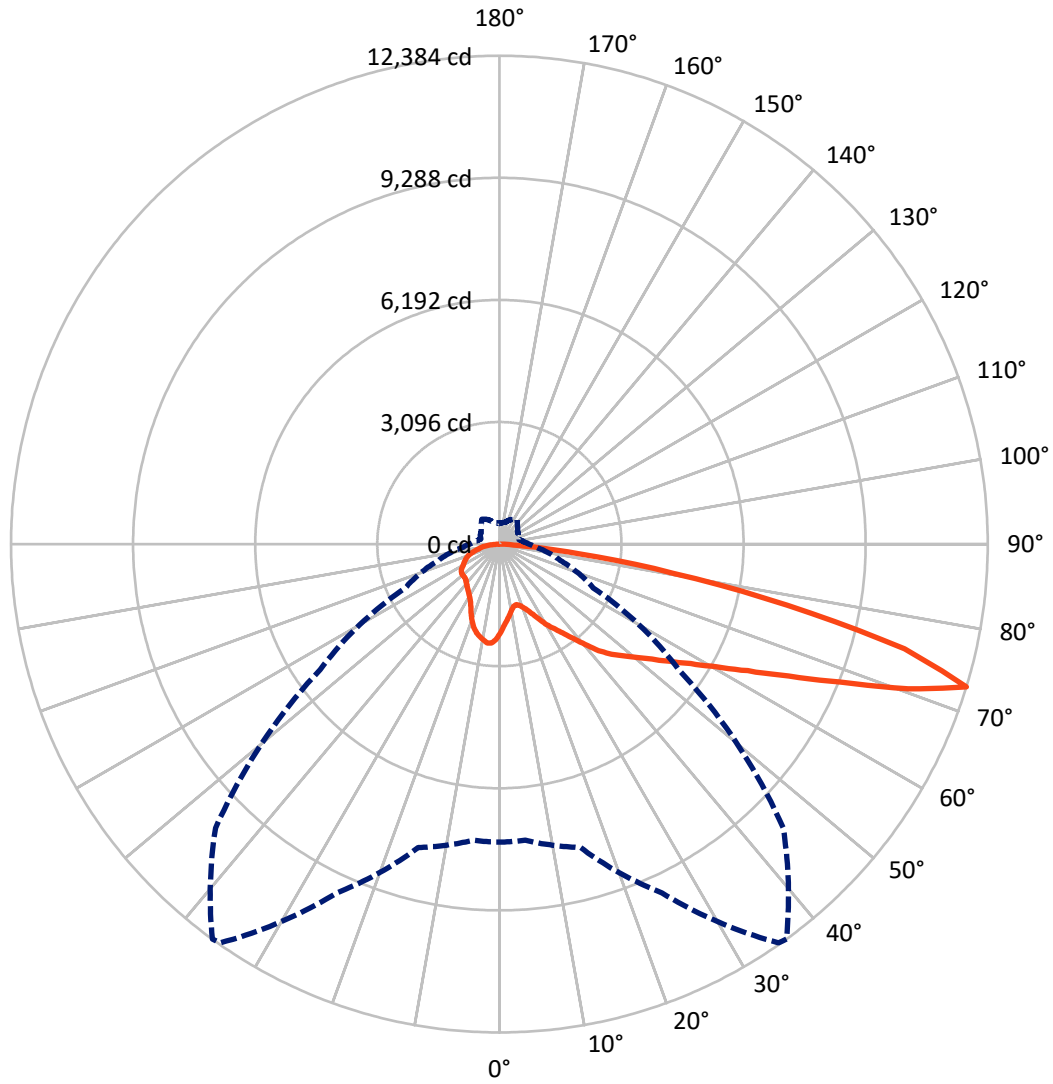
✕ Max cd
 - - - 1/2 Max cd



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	3563.0	0.0	3563.0
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	11891.9	0.0	11891.9
	% Fixture	76.9	0.0	76.9
Total	Lumens	15454.9	0.0	15454.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.4	1.4
10°-20°	596.5	3.9
20°-30°	987.9	6.4
30°-40°	1479.5	9.6
40°-50°	2158.4	14.0
50°-60°	3072.1	19.9
60°-70°	3881.4	25.1
70°-80°	2765.8	17.9
80°-90°	301.9	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°	15454.9	100.0
0°-180°	15454.9	100.0

Coefficient of Utilization



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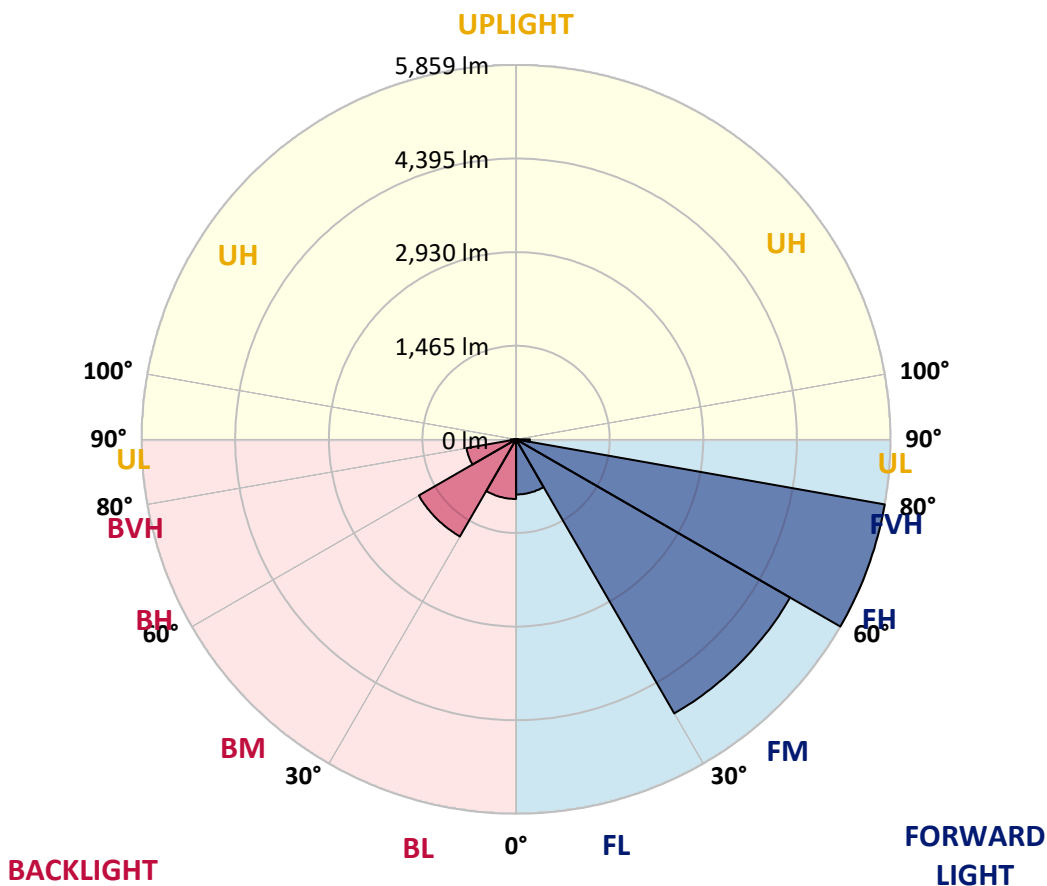
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	862.8	5.6			
FM (30°-60°)	4952.9	32.0			
FH (60°-80°)	5859.5	37.9			G3/7500
FVH (80°-90°)	216.7	1.4			G2/225
BL (0°-30°)	933.0	6.0	B2/1000		
BM (30°-60°)	1757.1	11.4	B2/2500		
BH (60°-80°)	787.7	5.1	B2/1000		G2/1000
BVH (80°-90°)	85.2	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°	2261.9	2261.9	2261.9	2261.9	2261.9	2261.9	2261.9	2261.9	2261.9	2261.9	2261.9
2.5°	2063.5	2060.0	2053.1	2073.8	2094.4	2092.1	2120.8	2148.3	2178.2	2209.1	2250.4
5°	1898.3	1896.0	1890.3	1921.2	1952.2	1951.1	1998.1	2042.8	2103.6	2170.1	2252.7
7.5°	1733.1	1727.4	1735.4	1774.4	1818.0	1822.6	1886.8	1960.2	2048.6	2148.3	2265.3
10°	1587.5	1586.3	1589.7	1633.3	1698.7	1703.3	1785.9	1888.0	2005.0	2138.0	2294.0
12.5°	1549.6	1547.3	1538.1	1559.9	1609.2	1616.1	1706.7	1831.8	1975.1	2143.8	2333.0
15°	1611.5	1605.8	1573.7	1563.4	1587.5	1593.2	1670.0	1798.5	1957.9	2154.1	2382.3
17.5°	1718.2	1714.8	1654.0	1611.5	1627.6	1632.2	1689.5	1792.8	1953.3	2174.7	2443.1
20°	1874.2	1859.3	1764.1	1699.9	1699.9	1706.7	1741.2	1818.0	1959.1	2200.0	2511.9
22.5°	2080.7	2050.8	1916.6	1829.5	1806.5	1815.7	1830.6	1881.1	1983.2	2242.4	2598.0
25°	2312.4	2284.8	2125.4	2002.7	1970.6	1974.0	1961.4	1970.6	2035.9	2300.9	2704.6
27.5°	2559.0	2540.6	2370.9	2214.9	2164.4	2164.4	2119.7	2097.9	2109.3	2367.4	2823.9
30°	2779.2	2754.0	2610.6	2439.7	2373.2	2373.2	2288.3	2241.2	2213.7	2448.9	2983.4
32.5°	2895.0	2880.1	2784.9	2654.2	2572.7	2560.1	2486.7	2431.7	2367.4	2569.3	3199.0
35°	3046.4	3043.0	2985.7	2883.6	2780.3	2762.0	2711.5	2667.9	2556.7	2719.5	3485.7
37.5°	3236.8	3231.1	3221.9	3161.1	3037.3	3033.8	2989.1	2936.3	2791.8	2936.3	3833.3
40°	3450.2	3439.9	3428.4	3427.3	3352.7	3340.1	3336.6	3277.0	3075.1	3197.8	4195.7
42.5°	3743.8	3708.3	3600.4	3648.6	3703.7	3692.2	3735.8	3646.3	3428.4	3508.7	4538.7
45°	4105.1	4018.0	3804.6	3818.4	3957.2	3980.1	4131.5	4109.7	3817.2	3867.7	4900.0
47.5°	4321.9	4246.2	4047.8	4036.3	4209.5	4238.2	4567.4	4608.7	4235.9	4300.1	5346.2
50°	4499.7	4446.9	4284.1	4300.1	4483.6	4512.3	4999.8	5088.1	4630.5	4742.9	5864.6
52.5°	4714.2	4638.5	4512.3	4588.0	4812.8	4847.2	5480.4	5575.6	4986.0	5229.2	6401.4
55°	4834.6	4803.7	4806.0	4921.8	5204.0	5251.0	5983.9	5967.9	5311.8	5645.6	6805.2
57.5°	5112.2	5100.7	5206.3	5249.8	5660.5	5721.3	6487.5	6349.8	5607.7	5967.9	6999.0
60°	5602.0	5573.3	5665.1	5731.6	6224.8	6310.8	7049.5	6723.7	5808.4	6207.6	6933.6
62.5°	6290.2	6254.6	6258.1	6363.6	6980.7	7071.3	7674.6	7035.7	5870.4	6244.3	6519.6
65°	7145.8	7094.2	7035.7	7179.1	7984.3	8060.0	8354.8	7262.8	5722.4	5891.0	5654.7
67.5°	8048.5	8006.1	7937.3	8237.8	9283.9	9329.7	9117.5	7243.3	5253.3	4945.9	3966.3
70°	8101.3	8111.6	8437.4	9524.7	10980.3	10991.7	9839.0	6851.1	4254.2	3205.9	1976.3
72.5°	7557.6	7540.4	7964.8	9759.9	12345.2	12384.2	10179.7	5550.4	2628.9	1598.9	926.8
75°	6138.8	6168.6	6614.8	8539.5	10581.1	10615.5	8298.6	3272.4	1249.1	782.3	593.0
77.5°	2642.7	2809.0	3688.8	6016.0	7578.3	7471.6	4277.2	1325.9	666.4	557.4	454.2
80°	762.8	828.1	1314.5	2860.6	4541.0	4460.7	1693.0	496.7	464.5	418.7	325.7
82.5°	246.6	273.0	481.7	1139.0	2034.8	2032.5	642.3	293.6	304.0	284.5	209.9
85°	68.8	79.1	148.0	345.2	629.7	617.1	185.8	138.8	161.7	164.0	104.4
87.5°	0.0	0.0	1.1	2.3	2.3	2.3	4.6	20.6	47.0	59.6	42.4
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°	2261.9	2261.9	2261.9	2261.9	2261.9	2261.9	2261.9	2261.9	2261.9	2261.9	2261.9
2.5°	2275.7	2272.2	2319.2	2355.9	2390.4	2413.3	2420.2	2424.8	2433.9	2438.5	2433.9
5°	2291.7	2308.9	2386.9	2444.3	2490.1	2517.7	2518.8	2516.5	2523.4	2517.7	2514.2
7.5°	2326.1	2359.4	2458.0	2518.8	2548.6	2549.8	2522.3	2490.1	2474.1	2460.3	2455.7
10°	2372.0	2421.3	2529.1	2569.3	2560.1	2517.7	2456.9	2406.4	2377.7	2357.1	2352.5
12.5°	2435.1	2490.1	2592.2	2591.1	2533.7	2458.0	2386.9	2326.1	2284.8	2260.7	2252.7
15°	2494.7	2564.7	2638.1	2584.2	2493.6	2401.8	2310.1	2228.6	2173.6	2135.7	2128.8
17.5°	2568.1	2642.7	2671.4	2562.4	2443.1	2325.0	2202.2	2095.6	2021.0	1976.3	1972.8
20°	2653.0	2719.5	2687.4	2524.6	2377.7	2222.9	2056.6	1937.3	1857.0	1813.4	1816.9
22.5°	2751.7	2799.8	2692.0	2472.9	2287.1	2078.4	1892.6	1777.9	1723.9	1701.0	1702.2
25°	2857.2	2888.2	2684.0	2403.0	2148.3	1901.7	1723.9	1671.2	1666.6	1660.9	1663.2
27.5°	2982.2	2975.3	2659.9	2304.3	1961.4	1696.4	1605.8	1619.6	1637.9	1635.6	1637.9
30°	3149.7	3084.3	2628.9	2167.8	1738.9	1524.4	1535.8	1574.8	1598.9	1601.2	1608.1
32.5°	3341.2	3204.7	2579.6	1982.0	1526.7	1428.0	1470.5	1517.5	1546.2	1551.9	1561.1
35°	3569.5	3342.4	2492.4	1750.3	1374.1	1370.7	1409.7	1441.8	1472.8	1475.0	1475.0
37.5°	3832.1	3480.0	2353.7	1494.5	1280.1	1321.3	1358.1	1364.9	1373.0	1366.1	1369.5
40°	4073.0	3613.1	2156.4	1261.7	1203.2	1277.8	1308.7	1285.8	1260.6	1243.4	1246.8
42.5°	4274.9	3703.7	1894.9	1098.8	1125.2	1238.8	1262.9	1215.8	1166.5	1134.4	1139.0
45°	4502.0	3787.4	1587.5	988.7	1058.7	1211.2	1227.3	1166.5	1103.4	1055.2	1048.4
47.5°	4815.1	3958.3	1314.5	911.9	1011.7	1196.3	1222.7	1140.1	1057.5	985.3	977.2
50°	5201.7	4200.3	1086.2	861.4	989.9	1188.3	1221.6	1111.4	1012.8	927.9	922.2
52.5°	5623.8	4436.6	917.6	822.4	968.1	1164.2	1215.8	1079.3	965.8	874.0	867.1
55°	5904.8	4529.5	804.1	785.7	932.5	1126.4	1192.9	1048.4	894.7	810.9	800.6
57.5°	5987.4	4410.2	724.9	752.4	886.6	1073.6	1149.3	983.0	851.1	784.6	776.5
60°	5845.1	4109.7	675.6	724.9	836.2	1005.9	1073.6	945.1	816.7	757.0	751.3
62.5°	5443.7	3646.3	637.7	696.2	784.6	934.8	1025.4	899.3	778.8	731.8	723.8
65°	4636.2	2990.2	606.8	666.4	735.2	867.1	972.7	853.4	737.5	702.0	692.8
67.5°	3242.6	2100.2	573.5	630.9	685.9	801.8	917.6	810.9	695.1	668.7	659.5
70°	1585.2	1113.7	533.4	589.6	633.1	735.2	862.5	759.3	638.9	624.0	611.4
72.5°	754.7	622.8	486.3	533.4	560.9	646.9	770.8	684.8	572.4	540.2	518.4
75°	505.8	442.7	424.4	466.8	473.7	542.5	660.7	590.7	504.7	468.0	449.6
77.5°	383.1	338.4	356.7	394.6	380.8	446.2	543.7	526.5	455.4	422.1	412.9
80°	269.5	246.6	283.3	306.3	295.9	379.7	489.8	450.8	375.1	338.4	331.5
82.5°	169.8	165.2	208.8	212.2	215.6	300.5	402.6	354.4	291.3	239.7	222.5
85°	84.9	94.1	125.0	125.0	123.9	154.8	229.4	199.6	157.1	125.0	121.6
87.5°	28.7	40.1	53.9	43.6	33.3	26.4	29.8	36.7	39.0	37.9	37.9
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)