

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: P639220

Luminaire Tested: GWS-SA5B-735-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639220
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-SA5B-735-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16915.5 lumens
Efficiency: N/A
Efficacy: 146.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

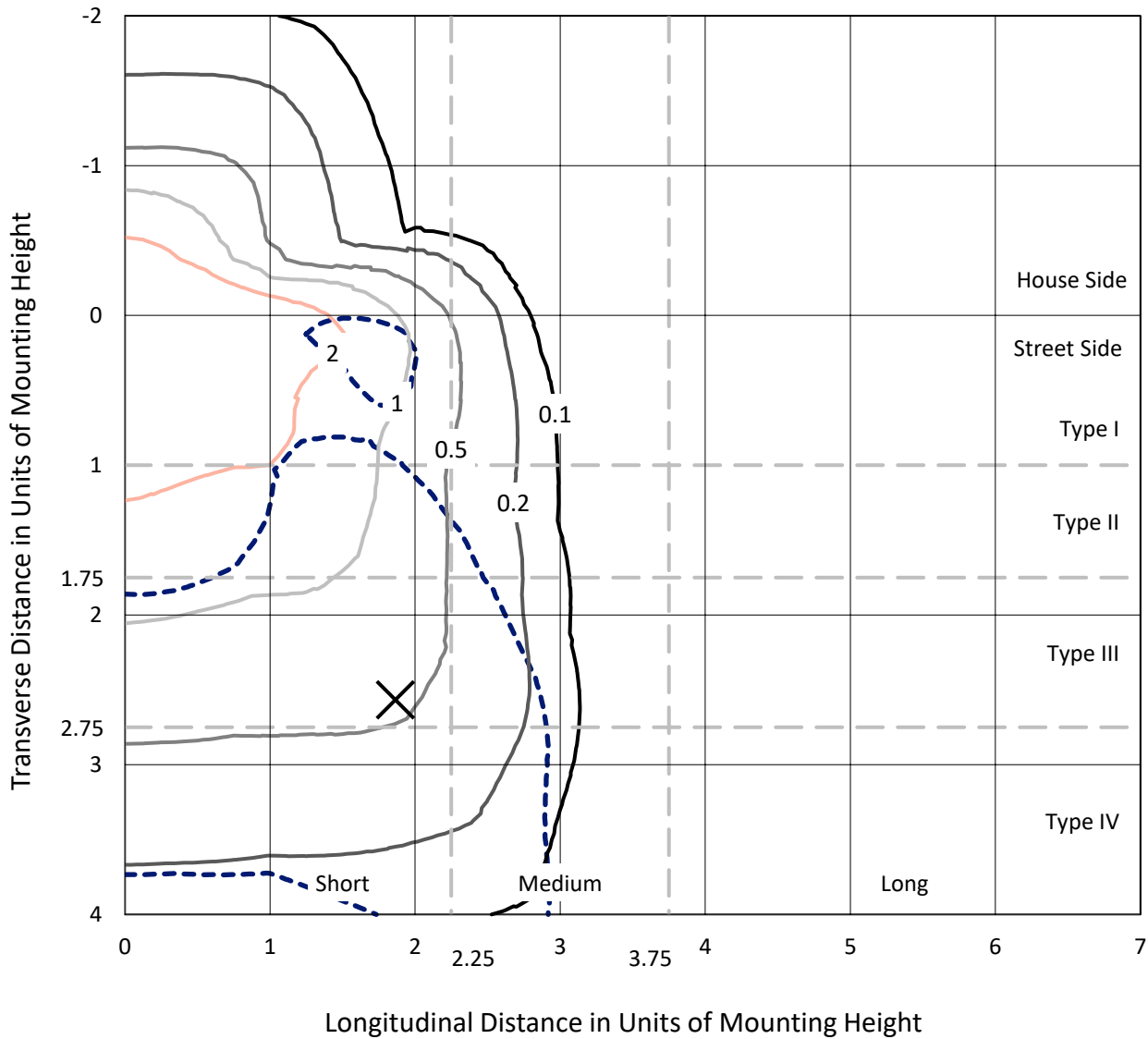
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

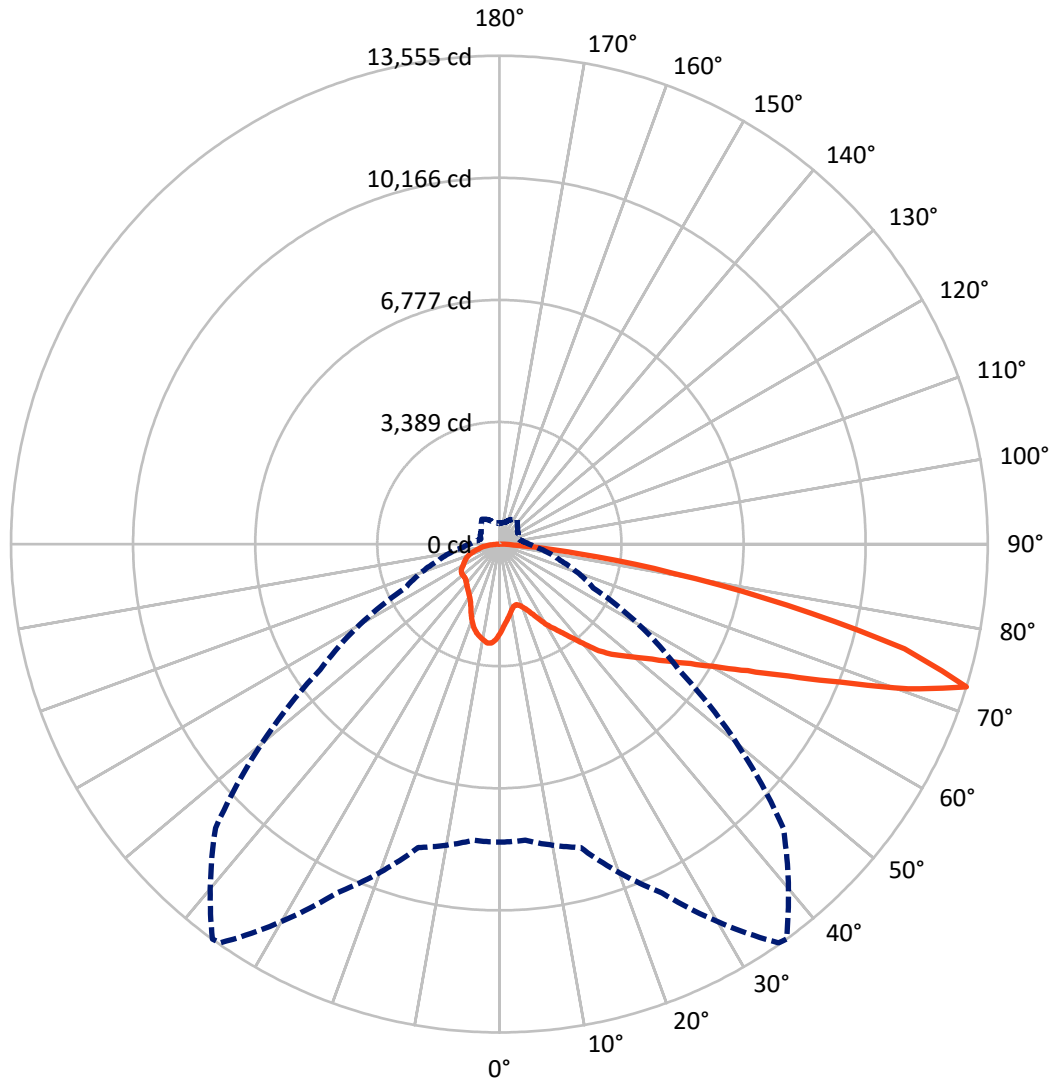
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	3899.7	0.0	3899.7
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	13015.7	0.0	13015.7
	% Fixture	76.9	0.0	76.9
Total	Lumens	16915.5	0.0	16915.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.4	1.4
10°-20°	652.9	3.9
20°-30°	1081.3	6.4
30°-40°	1619.3	9.6
40°-50°	2362.4	14.0
50°-60°	3362.4	19.9
60°-70°	4248.2	25.1
70°-80°	3027.2	17.9
80°-90°	330.5	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°	16915.5	100.0
0°-180°	16915.5	100.0

Coefficient of Utilization



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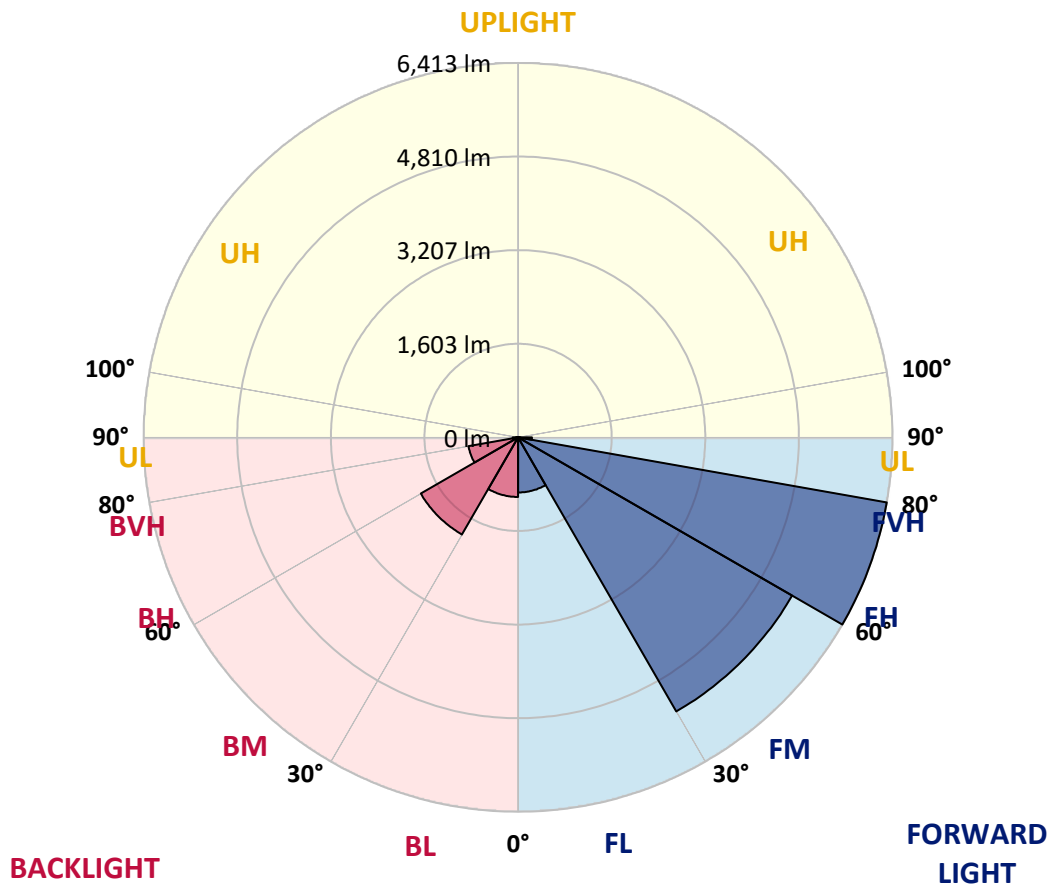
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	944.3	5.6			
FM (30°-60°)	5421.0	32.0			
FH (60°-80°)	6413.2	37.9			G3/7500
FVH (80°-90°)	237.2	1.4			G3/500
BL (0°-30°)	1021.2	6.0	B3/2500		
BM (30°-60°)	1923.1	11.4	B2/2500		
BH (60°-80°)	862.1	5.1	B2/1000		G2/1000
BVH (80°-90°)	93.3	0.6			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7
2.5°	2258.5	2254.7	2247.2	2269.8	2292.4	2289.9	2321.2	2351.4	2384.0	2417.9	2463.1
5°	2077.7	2075.2	2068.9	2102.8	2136.7	2135.4	2186.9	2235.9	2302.4	2375.2	2465.6
7.5°	1896.9	1890.6	1899.4	1942.1	1989.8	1994.8	2065.1	2145.5	2242.2	2351.4	2479.4
10°	1737.5	1736.2	1740.0	1787.7	1859.3	1864.3	1954.7	2066.4	2194.4	2340.1	2510.8
12.5°	1696.1	1693.5	1683.5	1707.4	1761.3	1768.9	1868.0	2004.9	2161.8	2346.4	2553.5
15°	1763.8	1757.6	1722.4	1711.1	1737.5	1743.8	1827.9	1968.5	2143.0	2357.7	2607.5
17.5°	1880.6	1876.8	1810.3	1763.8	1781.4	1786.4	1849.2	1962.2	2138.0	2380.2	2674.0
20°	2051.3	2035.0	1930.8	1860.5	1860.5	1868.0	1905.7	1989.8	2144.2	2407.9	2749.3
22.5°	2277.3	2244.7	2097.8	2002.4	1977.3	1987.3	2003.6	2058.9	2170.6	2454.3	2843.5
25°	2530.9	2500.8	2326.3	2191.9	2156.8	2160.6	2146.7	2156.8	2228.3	2518.3	2960.2
27.5°	2800.8	2780.7	2594.9	2424.2	2368.9	2368.9	2320.0	2296.1	2308.7	2591.2	3090.8
30°	3041.8	3014.2	2857.3	2670.2	2597.4	2597.4	2504.5	2453.1	2422.9	2680.3	3265.3
32.5°	3168.6	3152.3	3048.1	2905.0	2815.9	2802.1	2721.7	2661.5	2591.2	2812.1	3501.3
35°	3334.4	3330.6	3267.8	3156.1	3043.1	3023.0	2967.8	2920.1	2798.3	2976.6	3815.2
37.5°	3542.8	3536.5	3526.4	3459.9	3324.3	3320.5	3271.6	3213.8	3055.7	3213.8	4195.6
40°	3776.3	3765.0	3752.4	3751.2	3669.5	3655.7	3652.0	3586.7	3365.7	3500.1	4592.3
42.5°	4097.6	4058.7	3940.7	3993.4	4053.7	4041.1	4088.9	3990.9	3752.4	3840.3	4967.6
45°	4493.1	4397.7	4164.2	4179.2	4331.1	4356.3	4522.0	4498.1	4178.0	4233.2	5363.1
47.5°	4730.4	4647.5	4430.3	4417.8	4607.3	4638.7	4999.0	5044.2	4636.2	4706.5	5851.4
50°	4925.0	4867.2	4688.9	4706.5	4907.4	4938.8	5472.3	5569.0	5068.1	5191.1	6418.9
52.5°	5159.7	5076.9	4938.8	5021.6	5267.7	5305.3	5998.3	6102.5	5457.2	5723.4	7006.4
55°	5291.5	5257.6	5260.1	5386.9	5695.8	5747.2	6549.4	6531.9	5813.8	6179.1	7448.3
57.5°	5595.3	5582.8	5698.3	5746.0	6195.4	6262.0	7100.6	6949.9	6137.7	6531.9	7660.5
60°	6131.4	6100.0	6200.4	6273.3	6813.1	6907.2	7715.7	7359.2	6357.4	6794.3	7588.9
62.5°	6884.6	6845.7	6849.5	6965.0	7640.4	7739.6	8399.9	7700.7	6425.2	6834.4	7135.7
65°	7821.2	7764.7	7700.7	7857.6	8738.9	8821.7	9144.4	7949.2	6263.2	6447.8	6189.1
67.5°	8809.2	8762.7	8687.4	9016.3	10161.3	10211.5	9979.2	7927.9	5749.8	5413.3	4341.2
70°	8866.9	8878.2	9234.8	10424.9	12018.0	12030.5	10768.9	7498.5	4656.3	3508.9	2163.1
72.5°	8271.9	8253.0	8717.5	10682.2	13511.9	13554.6	11141.7	6074.9	2877.4	1750.0	1014.4
75°	6718.9	6751.6	7239.9	9346.5	11581.1	11618.8	9082.9	3581.7	1367.1	856.2	649.0
77.5°	2892.5	3074.5	4037.4	6584.6	8294.5	8177.7	4681.4	1451.2	729.4	610.1	497.1
80°	834.8	906.4	1438.7	3131.0	4970.1	4882.3	1853.0	543.6	508.4	458.2	356.5
82.5°	269.9	298.8	527.3	1246.6	2227.1	2224.6	703.0	321.4	332.7	311.3	229.7
85°	75.3	86.6	161.9	377.9	689.2	675.4	203.4	151.9	177.0	179.5	114.2
87.5°	0.0	0.0	1.3	2.5	2.5	2.5	5.0	22.6	51.5	65.3	46.4
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°	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7
2.5°	2490.7	2487.0	2538.4	2578.6	2616.3	2641.4	2648.9	2653.9	2664.0	2669.0	2664.0
5°	2508.3	2527.1	2612.5	2675.3	2725.5	2755.6	2756.9	2754.4	2761.9	2755.6	2751.8
7.5°	2546.0	2582.4	2690.3	2756.9	2789.5	2790.8	2760.6	2725.5	2707.9	2692.8	2687.8
10°	2596.2	2650.2	2768.2	2812.1	2802.1	2755.6	2689.1	2633.8	2602.5	2579.9	2574.8
12.5°	2665.2	2725.5	2837.2	2836.0	2773.2	2690.3	2612.5	2546.0	2500.8	2474.4	2465.6
15°	2730.5	2807.1	2887.4	2828.4	2729.3	2628.8	2528.4	2439.3	2379.0	2337.6	2330.0
17.5°	2810.9	2892.5	2923.8	2804.6	2674.0	2544.7	2410.4	2293.6	2212.0	2163.1	2159.3
20°	2903.8	2976.6	2941.4	2763.1	2602.5	2433.0	2250.9	2120.4	2032.5	1984.8	1988.6
22.5°	3011.7	3064.4	2946.4	2706.7	2503.3	2274.8	2071.4	1945.9	1886.9	1861.8	1863.0
25°	3127.2	3161.1	2937.6	2630.1	2351.4	2081.5	1886.9	1829.1	1824.1	1817.8	1820.3
27.5°	3264.1	3256.5	2911.3	2522.1	2146.7	1856.7	1757.6	1772.6	1792.7	1790.2	1792.7
30°	3447.3	3375.8	2877.4	2372.7	1903.2	1668.4	1681.0	1723.7	1750.0	1752.5	1760.1
32.5°	3657.0	3507.6	2823.4	2169.3	1670.9	1563.0	1609.4	1660.9	1692.3	1698.6	1708.6
35°	3906.8	3658.3	2728.0	1915.7	1504.0	1500.2	1542.9	1578.0	1611.9	1614.5	1614.5
37.5°	4194.3	3808.9	2576.1	1635.8	1401.0	1446.2	1486.4	1493.9	1502.7	1495.2	1499.0
40°	4457.9	3954.5	2360.2	1380.9	1316.9	1398.5	1432.4	1407.3	1379.7	1360.9	1364.6
42.5°	4678.9	4053.7	2073.9	1202.7	1231.6	1355.8	1382.2	1330.7	1276.7	1241.6	1246.6
45°	4927.5	4145.3	1737.5	1082.2	1158.7	1325.7	1343.3	1276.7	1207.7	1155.0	1147.4
47.5°	5270.2	4332.4	1438.7	998.0	1107.3	1309.4	1338.3	1247.9	1157.5	1078.4	1069.6
50°	5693.3	4597.3	1188.9	942.8	1083.4	1300.6	1337.0	1216.5	1108.5	1015.6	1009.3
52.5°	6155.3	4855.9	1004.3	900.1	1059.6	1274.2	1330.7	1181.3	1057.1	956.6	949.1
55°	6462.8	4957.6	880.0	860.0	1020.6	1232.8	1305.6	1147.4	979.2	887.6	876.3
57.5°	6553.2	4827.0	793.4	823.5	970.4	1175.1	1257.9	1075.9	931.5	858.7	849.9
60°	6397.5	4498.1	739.4	793.4	915.2	1101.0	1175.1	1034.5	893.8	828.6	822.3
62.5°	5958.2	3990.9	698.0	762.0	858.7	1023.2	1122.3	984.2	852.4	800.9	792.2
65°	5074.3	3272.8	664.1	729.4	804.7	949.1	1064.6	934.0	807.2	768.3	758.3
67.5°	3549.0	2298.6	627.7	690.5	750.7	877.5	1004.3	887.6	760.8	731.9	721.9
70°	1735.0	1219.0	583.8	645.3	693.0	804.7	944.1	831.1	699.3	682.9	669.1
72.5°	826.1	681.7	532.3	583.8	613.9	708.0	843.6	749.5	626.4	591.3	567.4
75°	553.6	484.6	464.5	510.9	518.5	593.8	723.1	646.5	552.4	512.2	492.1
77.5°	419.3	370.3	390.4	431.9	416.8	488.4	595.1	576.2	498.4	462.0	451.9
80°	295.0	269.9	310.1	335.2	323.9	415.5	536.1	493.4	410.5	370.3	362.8
82.5°	185.8	180.8	228.5	232.2	236.0	328.9	440.6	387.9	318.9	262.4	243.5
85°	92.9	102.9	136.8	136.8	135.6	169.5	251.1	218.4	172.0	136.8	133.1
87.5°	31.4	43.9	59.0	47.7	36.4	28.9	32.6	40.2	42.7	41.4	41.4
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)