

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: P636773

Luminaire Tested: GWS-SA4B-740-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636773
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-740-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13901 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

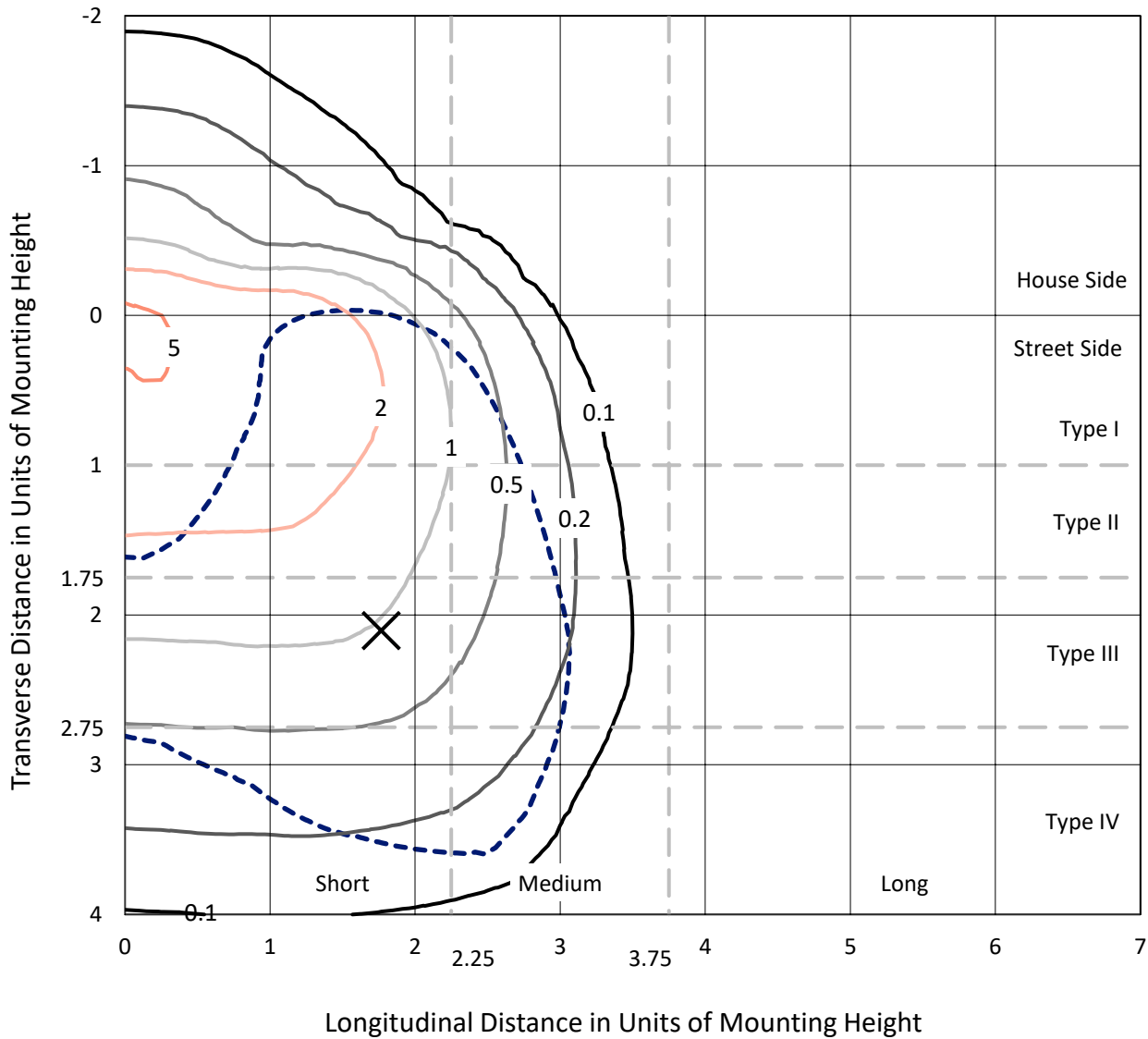
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

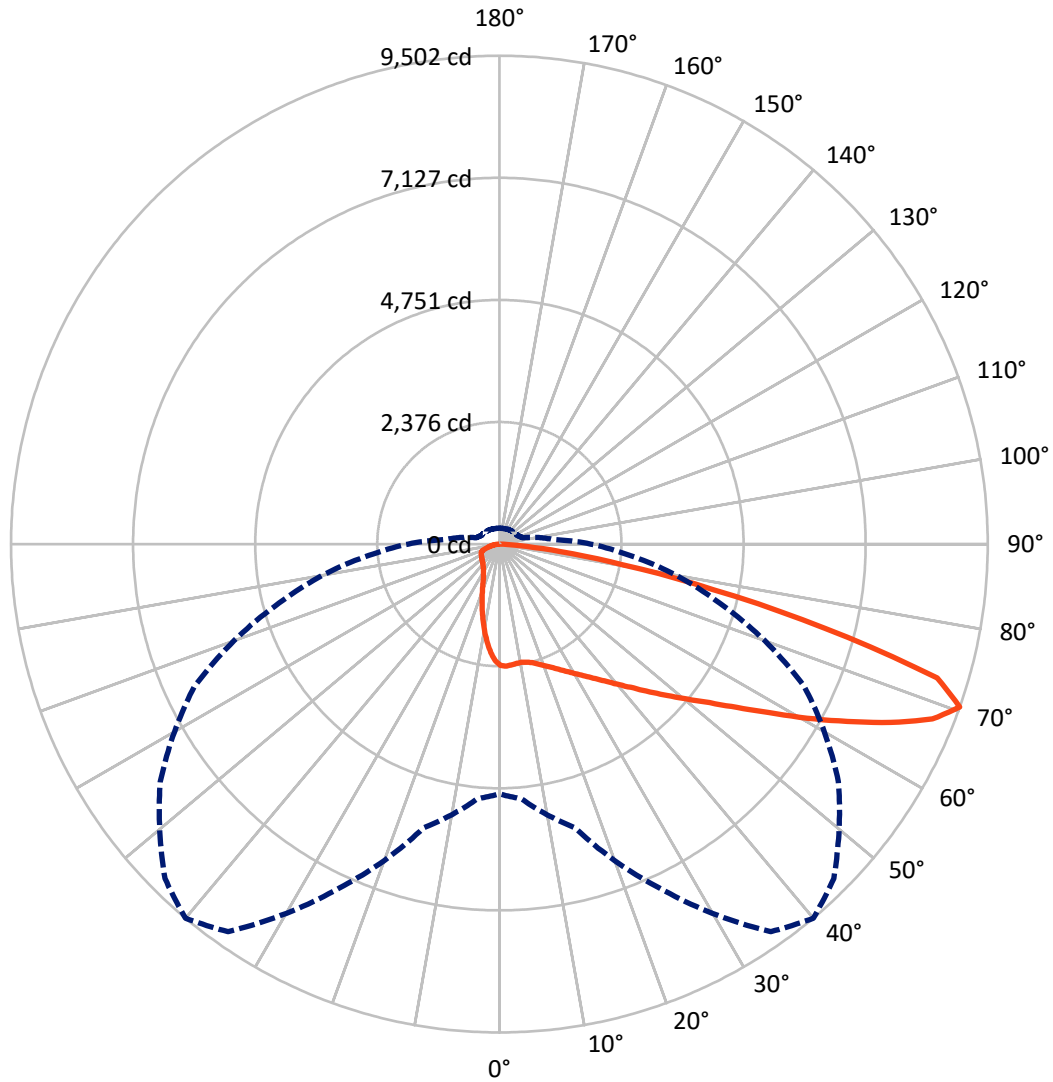
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2141.1	0.0	2141.1
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	11759.9	0.0	11759.9
	% Fixture	84.6	0.0	84.6
Total	Lumens	13901.0	0.0	13901.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.5	1.5
10°-20°	543.6	3.9
20°-30°	853.5	6.1
30°-40°	1283.2	9.2
40°-50°	1980.7	14.2
50°-60°	2941.5	21.2
60°-70°	3707.8	26.7
70°-80°	2144.2	15.4
80°-90°	238.0	1.7
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°	13901.0	100.0
0°-180°	13901.0	100.0

Coefficient of Utilization



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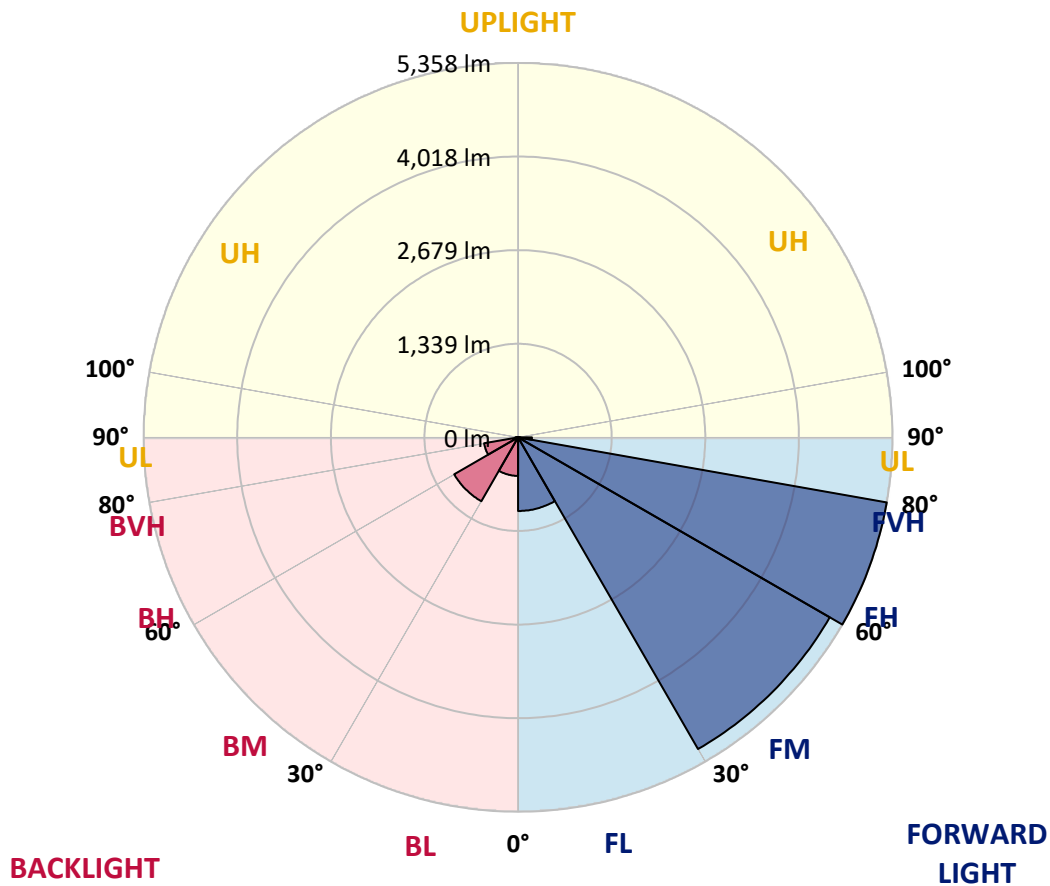
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1053.8	7.6			
FM (30°-60°)	5150.1	37.0			
FH (60°-80°)	5357.8	38.5			G3/7500
FVH (80°-90°)	198.2	1.4			G2/225
BL (0°-30°)	551.8	4.0	B2/1000		
BM (30°-60°)	1055.4	7.6	B2/2500		
BH (60°-80°)	494.2	3.6	B1/500		G1/500
BVH (80°-90°)	39.8	0.3			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°	40°	45°	55°	65°	75°	85°
0°	2360.5	2360.5	2360.5	2360.5	2360.5	2360.5	2360.5	2360.5	2360.5	2360.5	2360.5
2.5°	2375.1	2379.2	2382.3	2386.5	2384.4	2378.2	2383.4	2383.4	2372.0	2359.5	2348.1
5°	2378.2	2383.4	2382.3	2381.3	2373.0	2362.6	2362.6	2356.4	2336.7	2317.0	2298.3
7.5°	2372.0	2370.9	2369.9	2366.8	2357.4	2346.0	2343.9	2331.5	2305.6	2278.6	2251.6
10°	2343.9	2342.9	2346.0	2353.3	2351.2	2340.8	2340.8	2329.4	2299.3	2266.1	2230.8
12.5°	2321.1	2321.1	2333.6	2353.3	2360.5	2356.4	2357.4	2349.1	2314.9	2275.5	2234.0
15°	2324.2	2325.3	2352.2	2384.4	2397.9	2394.8	2395.8	2386.5	2348.1	2308.7	2252.6
17.5°	2345.0	2350.2	2396.9	2441.5	2459.1	2455.0	2447.7	2432.1	2388.6	2343.9	2275.5
20°	2388.6	2396.9	2457.0	2513.1	2533.8	2524.5	2512.0	2480.9	2433.2	2384.4	2300.4
22.5°	2474.7	2479.9	2546.3	2601.3	2617.9	2606.5	2581.6	2536.9	2481.9	2431.1	2330.5
25°	2596.1	2602.3	2665.6	2716.4	2712.3	2698.8	2664.6	2609.6	2544.2	2490.2	2374.0
27.5°	2740.3	2750.7	2812.9	2853.4	2826.4	2806.7	2768.3	2701.9	2628.3	2579.5	2440.4
30°	2898.0	2902.2	2955.1	2995.6	2954.1	2927.1	2880.4	2808.8	2742.4	2706.1	2540.1
32.5°	3050.6	3054.7	3100.4	3123.2	3079.6	3059.9	3019.4	2943.7	2897.0	2877.3	2688.4
35°	3211.4	3210.3	3247.7	3267.4	3222.8	3214.5	3173.0	3114.9	3106.6	3132.5	2905.3
37.5°	3372.2	3362.9	3382.6	3408.5	3383.6	3391.9	3364.9	3345.2	3377.4	3444.8	3193.7
40°	3500.9	3500.9	3521.6	3553.8	3562.1	3598.4	3582.8	3608.8	3712.5	3873.4	3550.7
42.5°	3615.0	3616.1	3659.6	3709.4	3769.6	3825.6	3838.1	3905.5	4120.3	4372.5	3998.9
45°	3734.3	3735.4	3794.5	3867.2	3994.8	4101.6	4126.6	4278.0	4585.2	4892.3	4485.6
47.5°	3872.3	3860.9	3942.9	4064.3	4245.9	4399.4	4463.8	4678.6	5066.6	5444.3	4944.2
50°	4028.0	4004.1	4095.4	4305.0	4529.1	4739.8	4847.7	5093.6	5583.3	5953.8	5375.8
52.5°	4203.3	4189.8	4285.3	4540.6	4883.0	5125.8	5272.1	5594.8	6085.5	6461.2	5718.2
55°	4421.2	4389.1	4527.1	4851.8	5298.0	5607.2	5780.5	6090.7	6634.4	6921.9	5979.7
57.5°	4659.9	4624.6	4809.3	5240.9	5837.6	6176.9	6393.7	6649.0	7151.2	7274.6	6133.3
60°	4917.2	4905.8	5124.7	5697.5	6480.9	6875.2	7031.8	7263.2	7600.4	7479.0	6094.9
62.5°	5152.7	5148.6	5467.1	6192.4	7162.6	7596.3	7720.8	7782.0	7924.2	7465.6	5789.8
65°	5400.7	5436.0	5866.6	6766.2	7943.9	8369.3	8421.2	8265.6	8033.1	7111.7	5165.2
67.5°	5431.9	5500.3	6117.7	7303.7	8684.7	9086.3	9044.8	8449.2	7711.5	6127.1	4048.7
70°	4858.1	4977.4	5717.2	7385.7	9206.7	9502.4	9202.5	8053.9	6544.2	4438.9	2546.3
72.5°	4059.1	4161.8	4815.5	6298.3	8533.3	8909.9	8504.2	6817.1	4624.6	2546.3	1297.0
75°	3159.5	3278.8	3881.7	5006.4	6388.5	6539.0	6335.6	4754.3	2542.1	1050.1	589.4
77.5°	1927.9	2014.0	2483.0	3391.9	4470.0	4244.8	3597.4	2665.6	1115.4	503.2	364.2
80°	852.9	905.8	1223.3	1822.0	2582.6	2441.5	1924.8	1138.3	610.1	319.6	254.2
82.5°	457.6	491.8	602.8	721.1	1134.1	1186.0	961.9	655.8	327.9	182.6	145.3
85°	201.3	221.0	273.9	261.5	372.5	366.3	369.4	450.3	156.7	84.0	94.4
87.5°	0.0	0.0	0.0	0.0	1.0	1.0	11.4	60.2	15.6	24.9	21.8
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°	2360.5	2360.5	2360.5	2360.5	2360.5	2360.5	2360.5	2360.5	2360.5	2360.5	2360.5
2.5°	2335.6	2317.0	2311.8	2305.6	2294.1	2274.4	2259.9	2243.3	2236.0	2227.7	2228.8
5°	2277.5	2254.7	2232.9	2204.9	2169.6	2130.2	2103.2	2072.1	2055.5	2039.9	2044.1
7.5°	2227.7	2192.5	2147.8	2088.7	2025.4	1954.8	1897.8	1853.2	1823.1	1802.3	1812.7
10°	2196.6	2155.1	2077.3	1980.8	1873.9	1766.0	1684.0	1607.2	1559.5	1522.2	1520.1
12.5°	2190.4	2136.4	2023.3	1883.3	1728.6	1584.4	1464.1	1360.3	1297.0	1250.3	1268.0
15°	2196.6	2128.1	1976.6	1793.0	1597.9	1402.8	1253.4	1134.1	1058.4	1015.8	1012.7
17.5°	2203.9	2119.8	1923.7	1695.4	1460.9	1237.9	1064.6	938.0	860.2	817.6	818.7
20°	2210.1	2107.4	1861.5	1588.6	1321.9	1084.3	904.8	784.4	714.9	683.8	689.0
22.5°	2220.5	2094.9	1795.1	1474.4	1179.8	935.9	778.2	680.7	639.2	618.4	619.4
25°	2240.2	2087.7	1726.6	1349.9	1039.7	817.6	691.0	625.7	599.7	587.3	586.2
27.5°	2280.7	2093.9	1655.0	1229.6	913.1	727.4	635.0	592.5	574.8	566.5	565.5
30°	2348.1	2118.8	1592.7	1107.1	804.1	656.8	596.6	570.7	560.3	553.0	552.0
32.5°	2450.8	2165.5	1525.3	993.0	715.9	604.9	566.5	553.0	545.8	541.6	541.6
35°	2606.5	2250.6	1458.9	893.4	647.5	564.5	542.7	537.5	531.3	529.2	531.3
37.5°	2830.6	2386.5	1398.7	806.2	598.7	533.3	516.7	518.8	513.6	516.7	519.8
40°	3114.9	2568.1	1347.8	734.6	562.4	510.5	493.9	501.2	498.0	501.2	506.4
42.5°	3474.9	2793.2	1309.5	678.6	536.4	491.8	476.3	483.5	481.4	485.6	490.8
45°	3876.5	3090.0	1291.8	639.2	517.8	478.3	461.7	466.9	464.8	468.0	473.1
47.5°	4261.4	3359.8	1307.4	616.3	502.2	466.9	449.3	451.4	450.3	449.3	452.4
50°	4593.5	3574.5	1352.0	609.1	491.8	455.5	438.9	439.9	436.8	430.6	432.7
52.5°	4864.3	3746.8	1379.0	609.1	486.6	443.1	427.5	428.5	422.3	414.0	415.0
55°	5042.8	3816.3	1357.2	608.0	484.6	432.7	416.1	417.1	410.9	400.5	401.6
57.5°	5093.6	3748.9	1265.9	596.6	482.5	424.4	404.7	406.7	402.6	391.2	391.2
60°	4951.4	3501.9	1098.8	570.7	477.3	419.2	396.4	399.5	397.4	386.0	386.0
62.5°	4578.9	3063.0	899.6	531.3	462.8	413.0	389.1	395.3	400.5	394.3	393.3
65°	3881.7	2453.9	731.5	487.7	444.1	402.6	378.7	394.3	405.7	414.0	414.0
67.5°	2912.6	1756.7	596.6	442.0	416.1	381.8	365.2	379.8	388.1	393.3	396.4
70°	1775.3	1033.5	470.0	389.1	375.6	350.7	338.3	323.7	312.3	310.2	311.3
72.5°	868.5	591.4	381.8	331.0	320.6	297.8	269.8	263.6	258.4	255.3	254.2
75°	478.3	411.9	315.4	275.0	256.3	228.3	222.0	211.7	209.6	205.4	206.5
77.5°	338.3	324.8	260.4	223.1	195.1	180.5	183.7	176.4	176.4	173.3	172.2
80°	254.2	255.3	200.3	162.9	144.2	139.0	142.2	142.2	140.1	139.0	138.0
82.5°	160.8	181.6	134.9	104.8	102.7	103.8	102.7	101.7	103.8	100.6	99.6
85°	111.0	130.7	82.0	62.3	62.3	61.2	63.3	62.3	64.3	61.2	61.2
87.5°	24.9	58.1	30.1	18.7	19.7	18.7	19.7	20.8	22.8	23.9	23.9
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)