

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: P637564

Luminaire Tested: GWS-SA4D-722-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637564
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-722-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18050.7 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

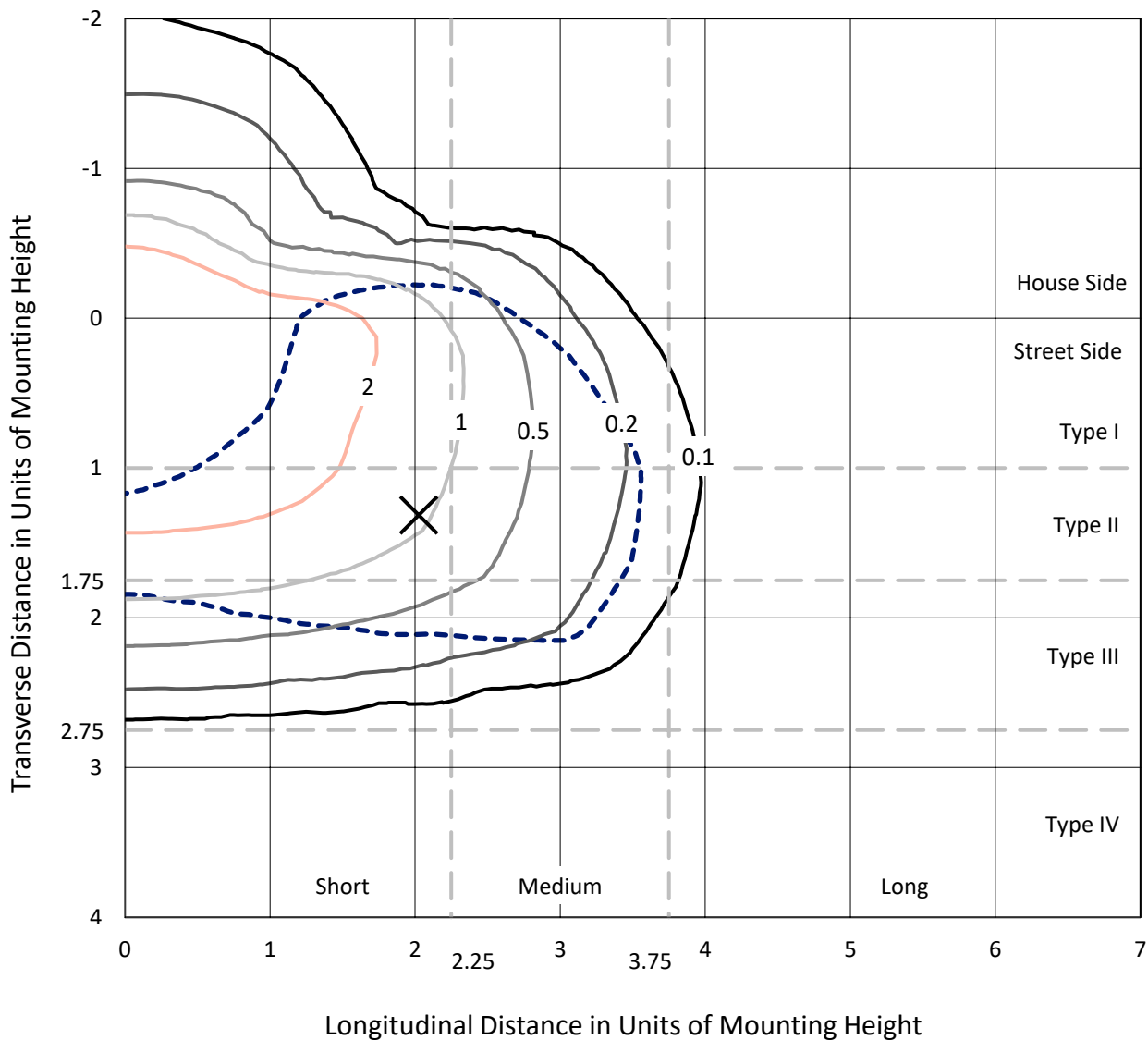
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

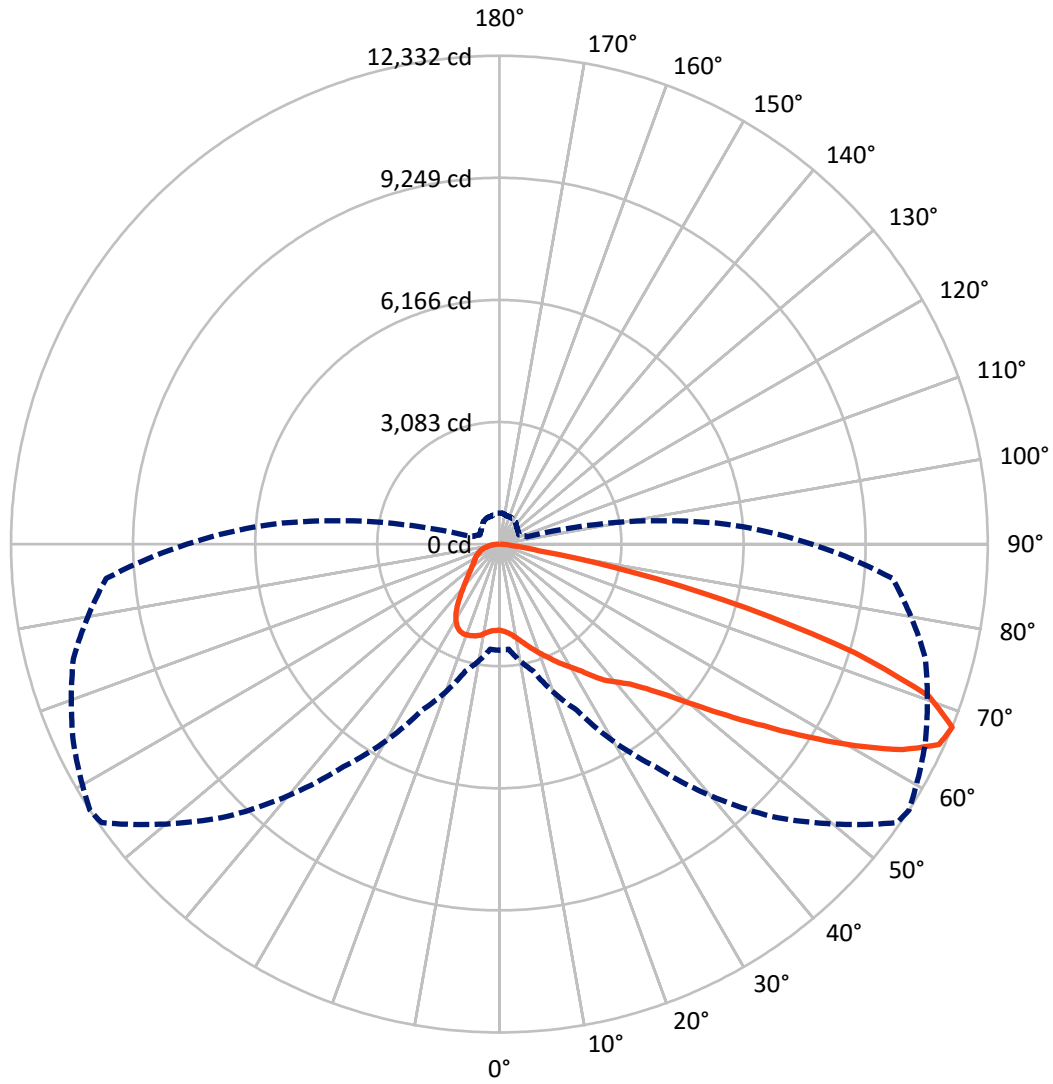
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3968.7	0.0	3968.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	14082.0	0.0	14082.0
	% Fixture	78.0	0.0	78.0
Total	Lumens	18050.7	0.0	18050.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.7	1.2
10°-20°	714.1	4.0
20°-30°	1273.1	7.1
30°-40°	1851.0	10.3
40°-50°	2679.0	14.8
50°-60°	4192.5	23.2
60°-70°	4890.9	27.1
70°-80°	2041.7	11.3
80°-90°	192.7	1.1
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°	18050.7	100.0
0°-180°	18050.7	100.0

Coefficient of Utilization



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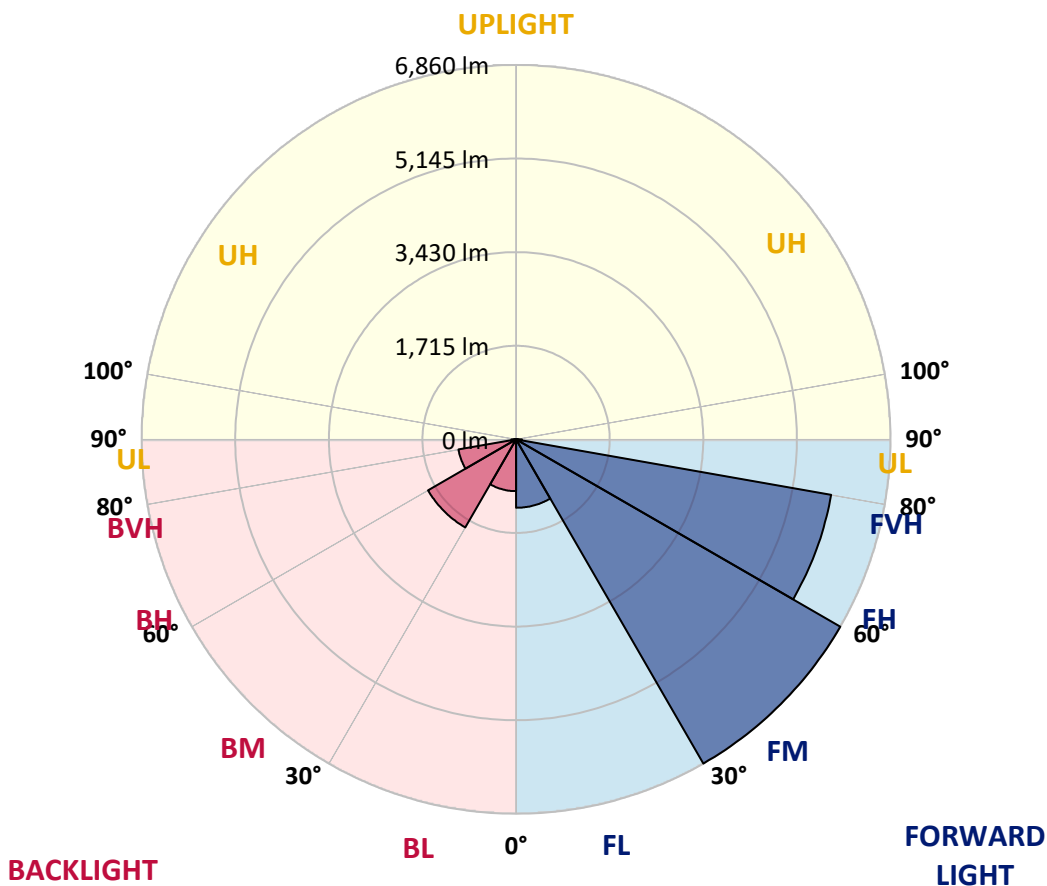
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1253.8	6.9			
FM (30°-60°)	6859.5	38.0			
FH (60°-80°)	5861.4	32.5			G3/7500
FVH (80°-90°)	107.3	0.6			G2/225
BL (0°-30°)	949.2	5.3	B2/1000		
BM (30°-60°)	1863.0	10.3	B2/2500		
BH (60°-80°)	1071.2	5.9	B3/2500		G3/2500
BVH (80°-90°)	85.3	0.5			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2175.0	2175.0	2175.0	2175.0	2175.0	2175.0	2175.0	2175.0	2175.0	2175.0	2175.0
2.5°	2206.0	2203.4	2202.1	2209.9	2207.3	2206.0	2206.0	2204.7	2202.1	2191.8	2177.6
5°	2266.8	2261.6	2256.5	2262.9	2257.7	2252.6	2251.3	2248.7	2239.6	2224.1	2202.1
7.5°	2330.2	2325.0	2326.3	2330.2	2326.3	2323.7	2319.8	2317.2	2303.0	2278.4	2248.7
10°	2419.4	2419.4	2422.0	2425.8	2427.1	2423.3	2415.5	2411.6	2394.8	2363.8	2322.4
12.5°	2548.7	2546.1	2546.1	2543.5	2547.4	2543.5	2535.8	2529.3	2508.6	2468.5	2409.0
15°	2719.4	2709.0	2700.0	2683.2	2678.0	2663.8	2666.4	2662.5	2643.1	2588.8	2513.8
17.5°	2901.7	2900.4	2886.2	2852.6	2818.9	2795.7	2800.8	2799.6	2789.2	2715.5	2619.8
20°	3062.0	3068.5	3055.6	3029.7	2984.5	2940.5	2937.9	2944.4	2931.4	2857.7	2724.6
22.5°	3241.8	3236.6	3223.7	3190.1	3156.4	3109.9	3094.4	3089.2	3084.0	3000.0	2831.9
25°	3412.5	3428.0	3411.2	3380.2	3328.4	3278.0	3265.1	3270.2	3256.0	3144.8	2947.0
27.5°	3628.4	3634.9	3624.5	3581.9	3537.9	3466.8	3442.2	3442.2	3437.0	3280.6	3037.5
30°	3858.6	3876.7	3858.6	3823.7	3778.4	3676.3	3623.3	3618.1	3602.6	3420.2	3143.5
32.5°	4090.1	4103.0	4090.1	4056.4	4004.7	3915.5	3839.2	3827.6	3806.9	3572.8	3252.1
35°	4295.7	4307.3	4304.7	4312.5	4269.8	4157.3	4110.8	4105.6	4051.3	3772.0	3399.5
37.5°	4520.7	4534.9	4515.5	4531.0	4514.2	4408.2	4393.9	4368.1	4290.5	3959.5	3554.7
40°	4776.7	4789.6	4758.6	4765.1	4745.7	4686.2	4613.8	4578.9	4463.8	4162.5	3799.1
42.5°	5050.8	5080.6	5094.8	5083.2	5037.9	5004.3	4877.6	4833.6	4737.9	4528.4	4201.3
45°	5447.8	5491.8	5512.5	5482.7	5463.3	5415.5	5260.3	5207.3	5156.9	5044.4	4762.5
47.5°	5875.8	5915.9	5981.9	5994.8	6010.3	5974.1	5755.6	5703.8	5712.9	5700.0	5453.0
50°	6217.2	6250.8	6399.5	6558.6	6690.5	6700.8	6421.5	6365.9	6415.0	6456.4	6284.4
52.5°	6465.5	6495.2	6691.8	7020.2	7318.9	7540.0	7238.7	7175.4	7215.5	7308.6	7229.7
55°	6667.2	6708.6	6914.2	7418.5	8022.4	8371.5	8178.8	8098.7	8081.8	8196.9	8242.2
57.5°	6773.2	6786.2	7074.5	7730.1	8538.3	9187.4	9271.5	9181.0	9020.6	9084.0	9319.3
60°	6531.4	6553.4	6947.8	7810.3	8945.6	9996.9	10418.5	10343.5	10002.1	10037.0	10296.9
62.5°	5862.9	5893.9	6368.5	7428.8	8979.3	10537.4	11477.5	11429.7	10971.9	10783.1	10860.7
65°	4703.0	4713.3	5204.7	6484.9	8310.7	10604.7	12215.9	12204.2	11649.5	11207.3	10874.9
67.5°	2681.9	2663.8	3320.7	4625.4	6858.6	9730.5	12263.7	12332.3	11869.3	11137.4	9969.8
70°	1162.5	1165.1	1467.7	2282.3	4439.2	7864.6	11390.9	11508.5	11233.1	9974.9	7931.8
72.5°	537.9	545.7	676.3	987.9	1895.7	4878.8	9288.3	9394.3	9157.7	7983.6	5771.1
75°	380.2	386.6	451.3	566.4	871.5	1900.9	6213.3	6435.7	6550.8	5971.5	3803.0
77.5°	288.4	297.4	329.7	393.1	537.9	673.7	2972.8	3503.0	4172.8	3715.1	1959.0
80°	183.6	183.6	218.5	262.5	328.4	350.4	858.6	1017.7	2041.8	1531.0	769.4
82.5°	124.1	128.0	148.7	166.8	188.8	199.1	368.5	393.1	589.7	521.1	316.8
85°	65.9	68.5	77.6	76.3	90.5	78.9	155.2	153.9	215.9	236.6	120.3
87.5°	0.0	0.0	1.3	1.3	2.6	3.9	16.8	18.1	45.3	72.4	40.1
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°	2175.0	2175.0	2175.0	2175.0	2175.0	2175.0	2175.0	2175.0	2175.0	2175.0	2175.0
2.5°	2185.3	2169.8	2177.6	2175.0	2182.7	2182.7	2168.5	2164.6	2165.9	2150.4	2145.2
5°	2204.7	2186.6	2190.5	2185.3	2193.1	2199.6	2193.1	2193.1	2200.8	2189.2	2182.7
7.5°	2248.7	2228.0	2228.0	2221.5	2230.6	2235.8	2230.6	2238.3	2252.6	2240.9	2234.5
10°	2318.5	2294.0	2295.2	2287.5	2291.4	2288.8	2268.1	2261.6	2265.5	2255.2	2250.0
12.5°	2409.0	2375.4	2375.4	2359.9	2350.8	2323.7	2281.0	2265.5	2268.1	2259.0	2255.2
15°	2495.7	2464.6	2458.2	2427.1	2385.8	2335.3	2296.5	2286.2	2288.8	2279.7	2273.3
17.5°	2597.8	2557.7	2534.5	2477.6	2401.3	2349.6	2310.8	2286.2	2265.5	2244.8	2239.6
20°	2692.2	2641.8	2599.1	2511.2	2418.1	2347.0	2274.6	2213.8	2163.3	2136.2	2129.7
22.5°	2789.2	2724.6	2649.6	2534.5	2416.8	2300.4	2167.2	2075.4	2000.4	1960.3	1968.1
25°	2881.0	2799.6	2697.4	2556.4	2375.4	2197.0	2015.9	1878.9	1793.5	1762.5	1753.4
27.5°	2957.3	2856.4	2741.4	2546.1	2290.1	2048.3	1809.0	1656.5	1573.7	1538.8	1529.7
30°	3042.7	2928.9	2804.7	2498.3	2155.6	1840.1	1575.0	1450.9	1391.4	1357.8	1359.0
32.5°	3140.9	3022.0	2893.9	2406.5	1983.6	1615.1	1382.3	1297.0	1249.1	1215.5	1210.3
35°	3272.8	3155.2	2953.4	2268.1	1765.1	1408.2	1250.4	1180.6	1121.1	1077.1	1068.1
37.5°	3435.8	3355.6	2959.9	2083.2	1531.0	1265.9	1156.0	1081.0	1008.6	950.4	944.0
40°	3715.1	3623.3	2906.9	1851.7	1331.9	1174.1	1077.1	990.5	906.5	841.8	832.8
42.5°	4113.3	3924.5	2793.1	1590.5	1181.9	1101.7	1002.1	892.2	806.9	761.6	755.2
45°	4620.2	4260.7	2622.4	1344.8	1070.7	1030.6	923.3	808.2	762.9	730.6	724.1
47.5°	5240.9	4652.6	2425.8	1153.4	984.0	965.9	843.1	779.7	739.7	712.5	706.0
50°	5983.2	5151.7	2264.2	1003.4	906.5	890.9	817.2	762.9	730.6	708.6	703.4
52.5°	6830.1	5706.4	2185.3	896.1	839.2	823.7	808.2	759.0	731.9	715.1	708.6
55°	7709.4	6290.9	2111.6	813.4	782.3	791.4	809.5	772.0	751.3	729.3	722.8
57.5°	8559.0	6839.2	1930.6	748.7	740.9	775.9	815.9	784.9	760.3	738.4	730.6
60°	9144.8	7139.2	1624.1	697.0	709.9	756.5	799.1	765.5	734.5	725.4	721.5
62.5°	9302.5	7103.0	1260.8	644.0	672.4	713.8	755.2	733.2	700.9	715.1	716.4
65°	8934.0	6715.0	946.5	592.2	623.3	658.2	709.9	700.9	689.2	728.0	729.3
67.5°	7890.5	5762.0	721.5	547.0	572.8	615.5	695.7	733.2	735.8	784.9	779.7
70°	5970.2	4304.7	565.1	504.3	534.0	615.5	740.9	757.8	726.7	772.0	761.6
72.5°	4127.6	2840.9	481.0	466.8	486.2	587.1	739.7	739.7	706.0	706.0	686.6
75°	2564.2	1670.7	419.0	419.0	419.0	513.4	719.0	681.5	622.0	594.8	579.3
77.5°	1265.9	812.1	351.7	364.7	350.4	429.3	587.1	557.3	521.1	492.7	482.3
80°	540.5	406.0	284.5	298.7	281.9	323.3	465.5	459.0	424.1	386.6	375.0
82.5°	248.3	209.5	227.6	234.1	205.6	243.1	340.1	340.1	320.7	269.0	249.6
85°	106.0	111.2	157.8	157.8	129.3	137.1	182.3	173.3	155.2	126.7	116.4
87.5°	36.2	54.3	80.2	69.8	27.2	11.6	6.5	2.6	0.0	0.0	0.0
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)