

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: P639053

Luminaire Tested: GWS-SA5B-722-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639053
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-722-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13295.9 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

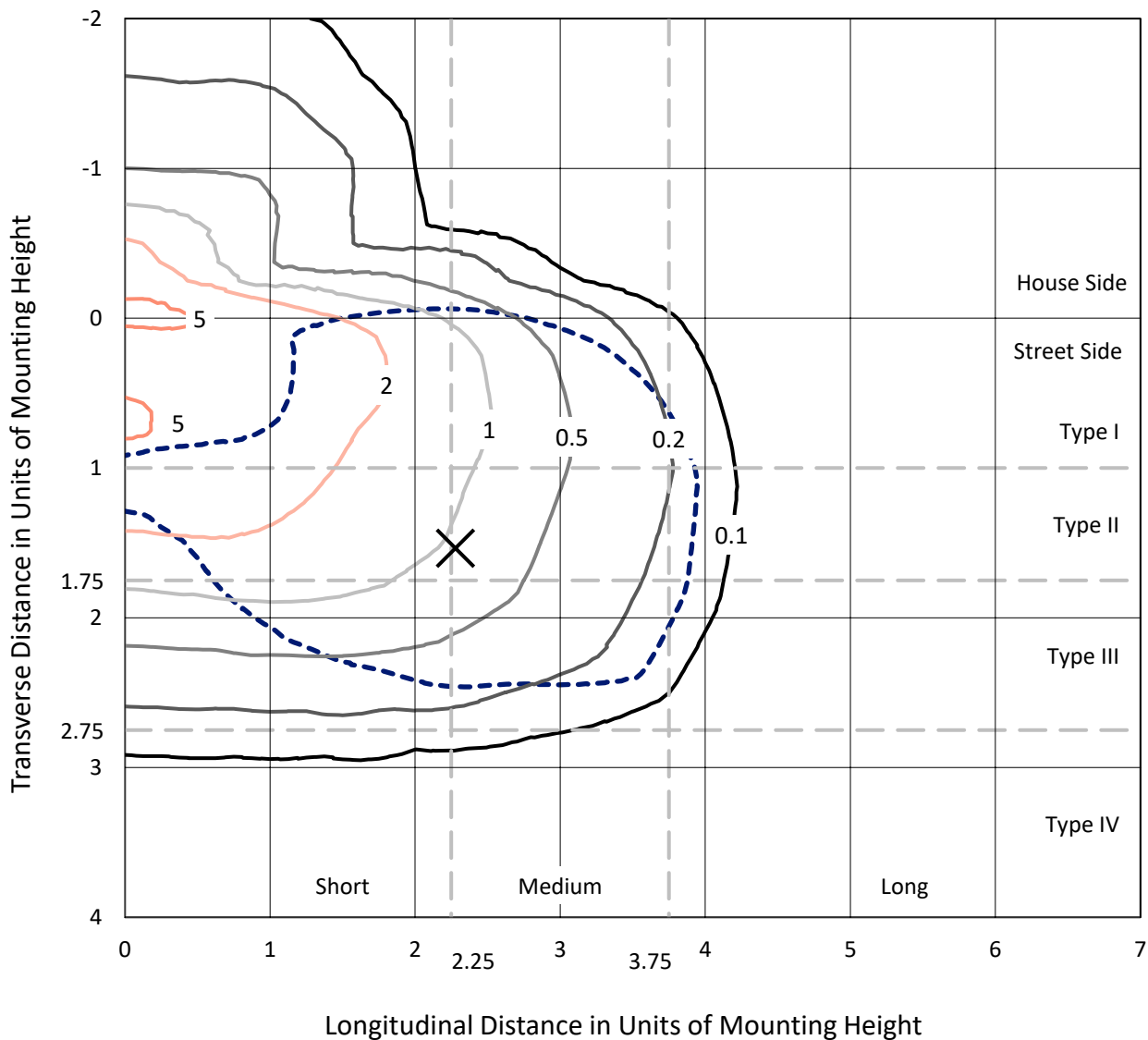
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

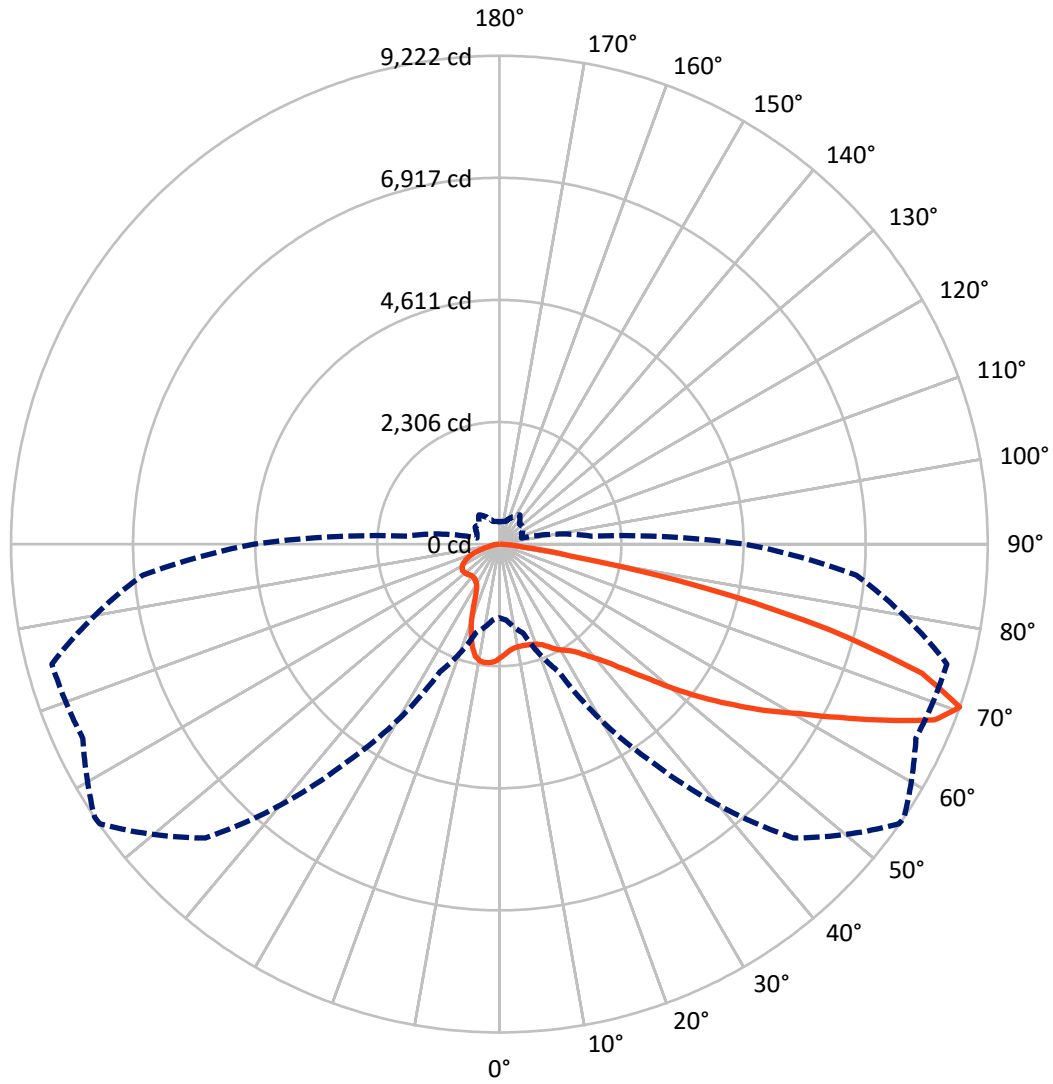
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2556.2	0.0	2556.2
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	10739.7	0.0	10739.7
	% Fixture	80.8	0.0	80.8
Total	Lumens	13295.9	0.0	13295.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.6	1.5
10°-20°	538.1	4.0
20°-30°	889.7	6.7
30°-40°	1330.2	10.0
40°-50°	1979.5	14.9
50°-60°	2814.2	21.2
60°-70°	3485.5	26.2
70°-80°	1924.6	14.5
80°-90°	135.6	1.0
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°	13295.9	100.0
0°-180°	13295.9	100.0

Coefficient of Utilization



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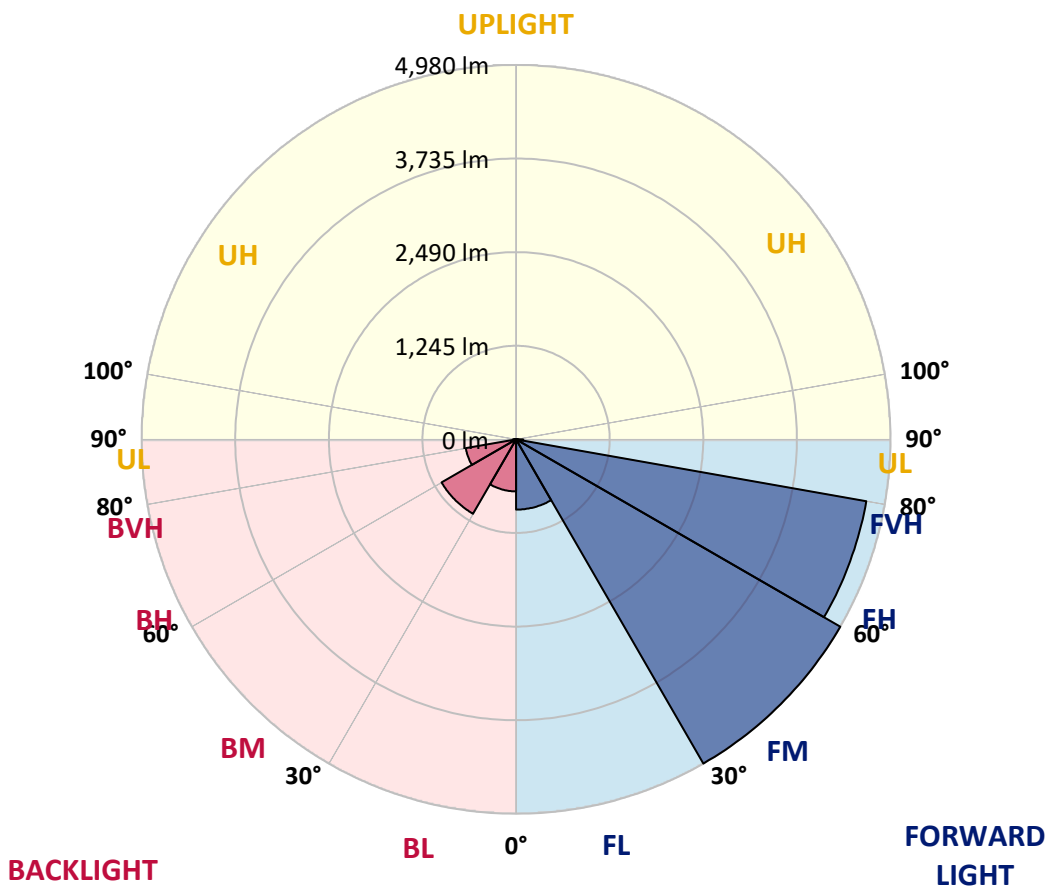
CATALOG NUMBER: GWS-SA5B-722-U-T3R-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	934.4	7.0			
FM (30°-60°)	4980.4	37.5			
FH (60°-80°)	4730.7	35.6			G2/5000
FVH (80°-90°)	94.2	0.7			G1/100
BL (0°-30°)	692.0	5.2	B2/1000		
BM (30°-60°)	1143.4	8.6	B2/2500		
BH (60°-80°)	679.4	5.1	B2/1000		G2/1000
BVH (80°-90°)	41.4	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-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2146.2	2146.2	2146.2	2146.2	2146.2	2146.2	2146.2	2146.2	2146.2	2146.2	2146.2
2.5°	2008.3	1997.1	2010.2	2016.8	2033.7	2058.0	2079.6	2080.5	2091.8	2119.0	2145.2
5°	1917.4	1911.8	1915.5	1935.2	1953.0	1984.0	2016.8	2019.6	2051.5	2104.9	2157.4
7.5°	1847.1	1839.6	1853.6	1878.9	1901.4	1936.1	1979.3	1983.0	2028.0	2108.7	2189.3
10°	1745.8	1740.2	1766.4	1800.2	1848.9	1906.1	1963.3	1968.0	2027.1	2133.0	2245.5
12.5°	1701.7	1701.7	1713.0	1744.9	1798.3	1874.3	1960.5	1968.0	2042.1	2170.5	2317.7
15°	1770.2	1774.9	1765.5	1763.6	1785.2	1857.4	1964.3	1975.5	2070.2	2209.0	2389.0
17.5°	1908.0	1912.7	1888.3	1849.9	1828.3	1873.3	1978.3	1990.5	2100.2	2251.2	2465.9
20°	2101.2	2106.8	2053.3	1994.3	1920.2	1919.3	2005.5	2016.8	2138.7	2297.1	2547.5
22.5°	2327.1	2330.9	2263.4	2169.6	2056.2	2004.6	2052.4	2063.7	2188.4	2360.9	2635.6
25°	2588.7	2600.0	2518.4	2382.4	2228.7	2121.8	2130.2	2143.3	2277.4	2446.2	2739.7
27.5°	2868.1	2882.2	2788.4	2638.4	2426.5	2251.2	2230.5	2241.8	2372.1	2498.7	2795.0
30°	3154.1	3164.4	3070.6	2899.1	2639.3	2397.4	2314.9	2321.5	2413.4	2524.0	2851.2
32.5°	3471.9	3463.5	3373.5	3175.6	2885.0	2572.8	2393.7	2391.8	2459.3	2574.6	2931.9
35°	3770.1	3782.3	3686.6	3468.2	3155.0	2789.4	2511.8	2504.3	2556.8	2657.2	3045.3
37.5°	4131.1	4127.3	4012.9	3776.6	3426.0	2996.6	2677.8	2664.7	2683.4	2785.6	3203.8
40°	4388.9	4415.2	4341.1	4120.7	3742.9	3251.6	2871.9	2842.8	2847.5	2944.1	3415.7
42.5°	4599.9	4624.2	4631.7	4491.1	4105.7	3566.6	3113.8	3084.7	3087.5	3224.4	3676.3
45°	4762.1	4794.9	4900.8	4859.6	4514.5	3930.4	3441.0	3411.0	3412.9	3564.7	3991.4
47.5°	4828.6	4864.3	5079.0	5177.4	4948.6	4365.5	3847.9	3803.8	3810.4	3978.2	4351.4
50°	4807.1	4854.9	5145.5	5422.1	5312.4	4808.0	4334.5	4303.6	4278.3	4522.0	4742.4
52.5°	4621.4	4673.9	5139.0	5577.8	5609.7	5226.2	4837.1	4819.3	4813.6	5099.6	5179.3
55°	4074.8	4162.9	4913.0	5619.0	5842.2	5620.0	5381.8	5351.8	5380.9	5718.4	5620.9
57.5°	3772.0	3837.6	4470.5	5573.1	6032.5	5995.0	5925.6	5928.4	5961.3	6390.7	6156.3
60°	3599.4	3676.3	4224.8	5447.4	6215.3	6450.7	6494.7	6494.7	6553.8	7115.4	6700.1
62.5°	3370.7	3448.5	3995.1	5205.5	6384.1	6987.0	7210.1	7207.3	7230.8	7892.7	7231.7
65°	2906.6	2978.8	3533.8	4823.9	6466.6	7577.7	8023.0	8014.6	7967.7	8584.7	7583.3
67.5°	2110.5	2179.0	2706.8	4098.2	6169.4	8054.0	8860.3	8864.1	8583.7	9020.6	7602.0
70°	1391.4	1438.3	1740.2	2661.8	5017.1	7848.6	9211.0	9222.2	8678.4	8748.7	6765.7
72.5°	868.2	901.0	1086.7	1587.4	2964.7	6212.5	8310.9	8341.8	7807.4	7688.3	5559.0
75°	576.6	599.1	722.9	925.4	1371.7	3362.2	6317.5	6416.9	6257.5	6026.9	3873.2
77.5°	346.9	365.7	460.4	587.9	607.6	1313.6	3687.6	3944.5	3967.0	3146.6	1622.0
80°	158.5	180.0	254.1	335.7	323.5	457.5	1300.4	1360.5	1605.2	999.5	511.9
82.5°	93.8	103.1	168.8	166.9	137.8	222.2	467.9	480.1	407.9	365.7	218.5
85°	37.5	44.1	71.3	62.8	50.6	72.2	176.3	184.7	177.2	159.4	80.6
87.5°	0.0	0.0	0.0	0.0	0.9	1.9	15.9	16.9	24.4	44.1	24.4
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°	2146.2	2146.2	2146.2	2146.2	2146.2	2146.2	2146.2	2146.2	2146.2	2146.2	2146.2
2.5°	2162.1	2156.5	2184.6	2206.2	2215.5	2224.9	2216.5	2213.7	2213.7	2194.9	2185.5
5°	2185.5	2188.4	2226.8	2244.6	2244.6	2237.1	2214.6	2198.7	2193.0	2168.7	2162.1
7.5°	2229.6	2241.8	2277.4	2276.5	2250.2	2209.0	2152.7	2109.6	2070.2	2053.3	2043.0
10°	2301.8	2317.7	2342.1	2302.7	2229.6	2120.8	2001.8	1908.0	1851.8	1806.8	1806.8
12.5°	2384.3	2399.3	2394.6	2303.7	2152.7	1949.3	1777.7	1669.9	1591.1	1549.9	1549.9
15°	2466.8	2479.0	2428.4	2260.5	1992.4	1721.4	1533.9	1404.5	1336.1	1297.6	1297.6
17.5°	2550.3	2549.3	2442.4	2161.2	1783.3	1469.2	1285.4	1185.1	1161.7	1155.1	1154.2
20°	2630.9	2609.3	2424.6	1995.2	1540.5	1215.1	1098.9	1105.4	1140.1	1155.1	1157.0
22.5°	2721.8	2668.4	2372.1	1783.3	1264.8	1038.9	1046.4	1100.7	1151.4	1173.9	1176.7
25°	2814.7	2719.0	2284.0	1534.8	1034.2	974.2	1032.3	1093.2	1150.4	1179.5	1182.3
27.5°	2852.2	2719.0	2134.0	1247.0	911.3	947.0	1010.7	1069.8	1129.8	1163.6	1170.1
30°	2883.1	2695.6	1924.0	987.3	860.7	920.7	976.0	1030.4	1089.5	1130.7	1138.2
32.5°	2926.2	2675.0	1669.9	829.8	837.3	895.4	933.8	979.8	1033.2	1060.4	1057.6
35°	2976.9	2643.1	1363.3	754.8	817.6	873.8	901.0	928.2	903.8	902.9	905.7
37.5°	3049.1	2615.0	1096.1	721.0	804.5	858.8	881.3	823.2	789.5	775.4	769.8
40°	3153.1	2603.7	864.5	701.3	802.6	857.9	842.0	752.0	706.0	657.3	656.3
42.5°	3284.4	2595.3	714.4	691.9	809.1	879.5	787.6	705.1	610.4	588.8	586.9
45°	3453.2	2582.1	639.4	690.1	825.1	896.3	782.0	640.4	575.7	566.3	566.3
47.5°	3656.6	2561.5	605.7	690.1	842.9	888.8	765.1	626.3	559.7	570.1	576.6
50°	3890.1	2535.3	587.9	688.2	860.7	888.8	729.5	623.5	556.0	609.4	631.0
52.5°	4139.5	2505.3	575.7	680.7	872.9	889.8	731.3	632.9	559.7	618.8	636.6
55°	4415.2	2500.6	558.8	664.8	876.7	865.4	736.0	653.5	565.4	560.7	561.6
57.5°	4763.0	2556.8	546.6	641.3	861.7	815.7	745.4	668.5	558.8	559.7	566.3
60°	5126.8	2662.8	556.9	618.8	830.7	768.8	752.0	661.0	526.9	511.9	513.8
62.5°	5436.2	2743.4	565.4	608.5	785.7	727.6	745.4	644.1	509.1	505.4	513.8
65°	5565.6	2676.8	544.7	586.9	720.1	676.9	731.3	622.6	494.1	480.1	481.0
67.5°	5422.1	2364.6	504.4	539.1	646.0	612.3	708.8	594.4	473.5	456.6	452.9
70°	4631.7	1737.4	435.0	463.2	556.0	536.3	674.1	557.9	440.7	428.5	420.0
72.5°	3732.6	1230.1	361.0	368.5	436.0	451.9	614.1	511.9	403.2	368.5	356.3
75°	2598.1	772.6	301.0	293.5	315.0	345.0	479.1	424.7	347.8	311.3	300.0
77.5°	1117.6	396.6	235.3	231.6	210.0	239.1	367.5	354.4	291.6	249.4	242.8
80°	374.1	229.7	169.7	163.1	139.7	167.8	258.8	283.2	228.8	184.7	173.5
82.5°	187.5	133.1	107.8	97.5	93.8	105.9	152.8	176.3	158.5	127.5	107.8
85°	91.9	75.9	59.1	58.1	48.8	45.9	63.8	75.0	71.3	52.5	49.7
87.5°	33.8	30.0	18.8	15.0	9.4	6.6	3.8	3.8	2.8	2.8	2.8
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)