

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: P633583

Luminaire Tested: GWS-SA2F-722-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633583
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-SA2F-722-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11476.2 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

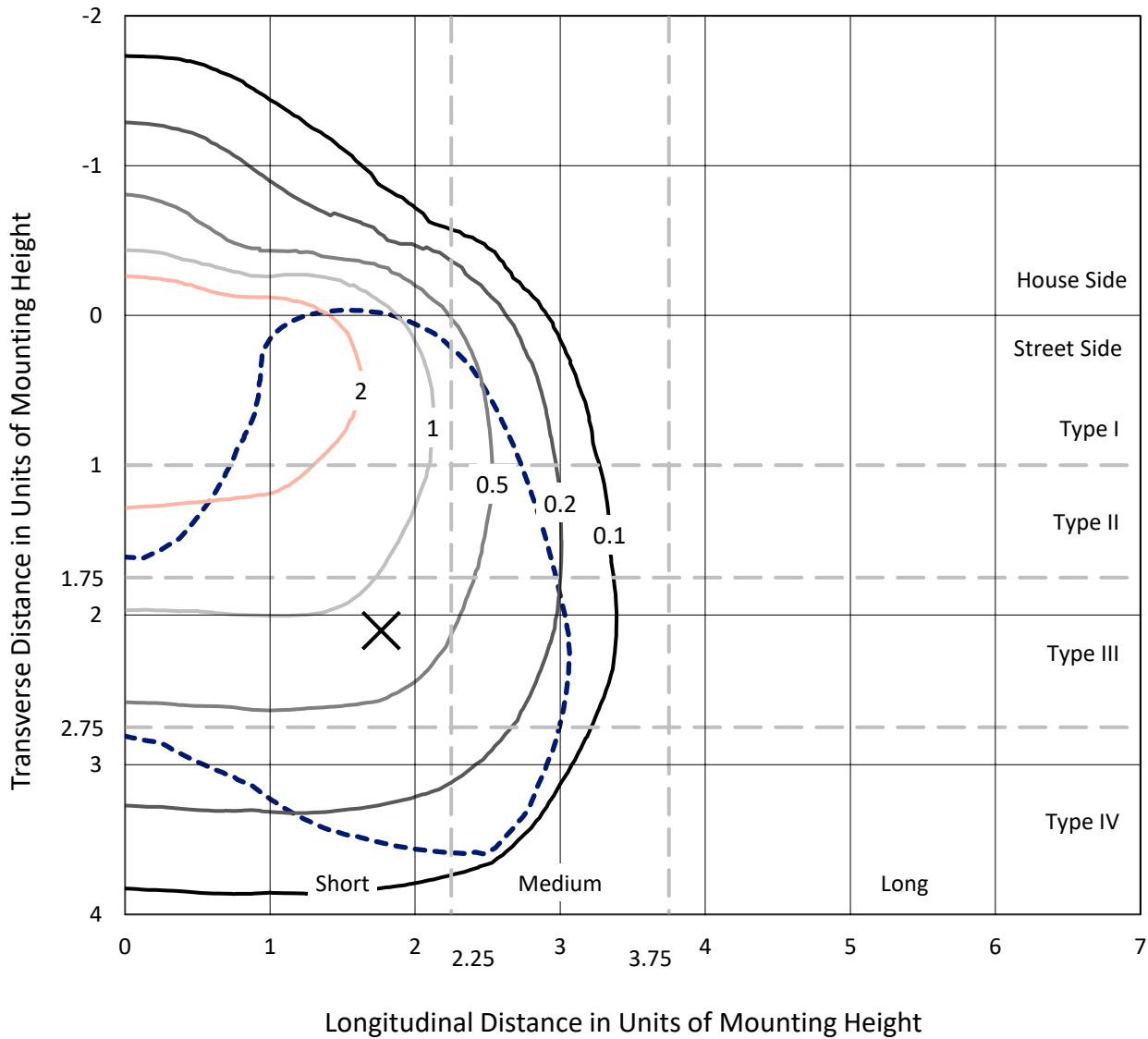
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

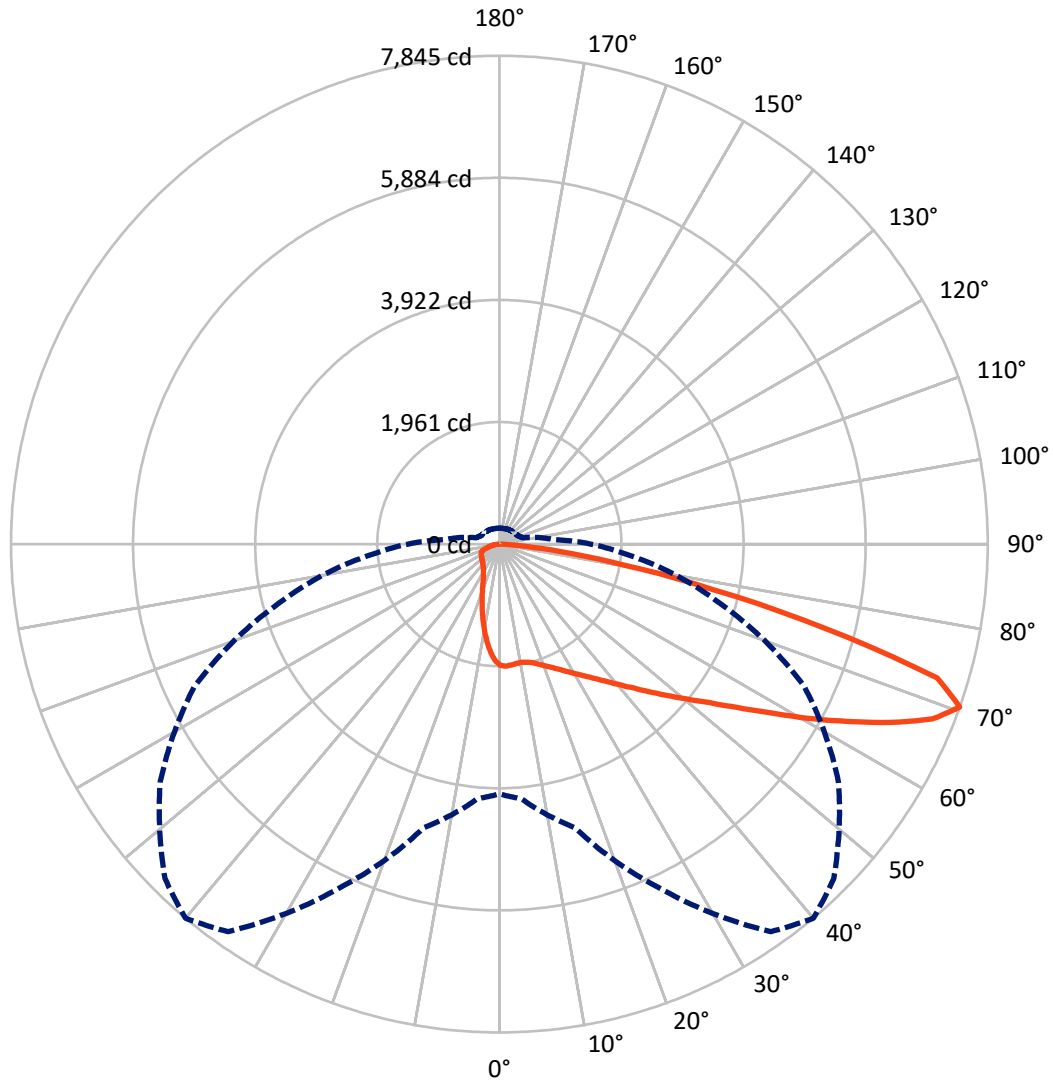
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 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	1767.6	0.0	1767.6
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	9708.6	0.0	9708.6
	% Fixture	84.6	0.0	84.6
Total	Lumens	11476.2	0.0	11476.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.2	1.5
10°-20°	448.7	3.9
20°-30°	704.6	6.1
30°-40°	1059.4	9.2
40°-50°	1635.2	14.2
50°-60°	2428.4	21.2
60°-70°	3061.0	26.7
70°-80°	1770.2	15.4
80°-90°	196.5	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°	11476.2	100.0
0°-180°	11476.2	100.0

Coefficient of Utilization



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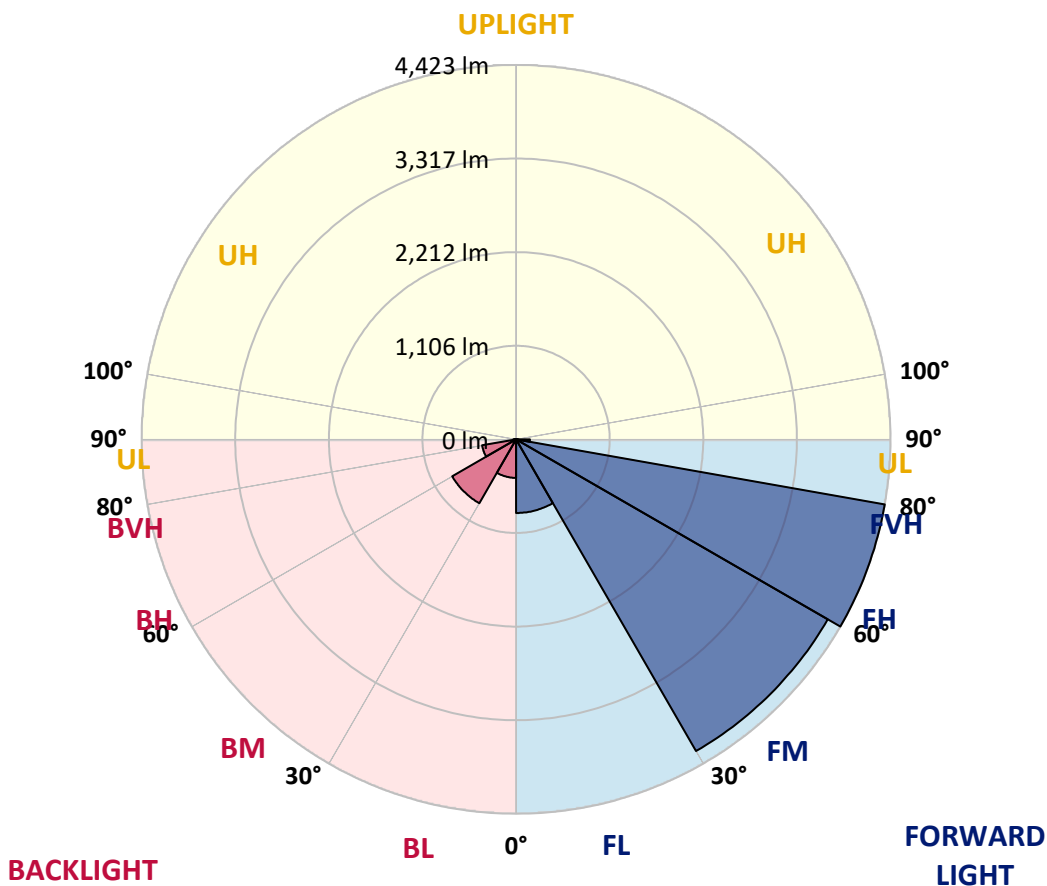
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	870.0	7.6			
FM (30°-60°)	4251.8	37.0			
FH (60°-80°)	4423.2	38.5			G2/5000
FVH (80°-90°)	163.6	1.4			G2/225
BL (0°-30°)	455.5	4.0	B1/500		
BM (30°-60°)	871.3	7.6	B1/1000		
BH (60°-80°)	408.0	3.6	B1/500		G1/500
BVH (80°-90°)	32.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1948.8	1948.8	1948.8	1948.8	1948.8	1948.8	1948.8	1948.8	1948.8	1948.8	1948.8
2.5°	1960.8	1964.2	1966.8	1970.2	1968.5	1963.4	1967.6	1967.6	1958.2	1947.9	1938.5
5°	1963.4	1967.6	1966.8	1965.9	1959.1	1950.5	1950.5	1945.4	1929.1	1912.8	1897.4
7.5°	1958.2	1957.4	1956.5	1953.9	1946.2	1936.8	1935.1	1924.8	1903.4	1881.1	1858.8
10°	1935.1	1934.2	1936.8	1942.8	1941.1	1932.5	1932.5	1923.1	1898.3	1870.8	1841.7
12.5°	1916.2	1916.2	1926.5	1942.8	1948.8	1945.4	1946.2	1939.4	1911.1	1878.5	1844.3
15°	1918.8	1919.7	1941.9	1968.5	1979.6	1977.1	1977.9	1970.2	1938.5	1906.0	1859.7
17.5°	1935.9	1940.2	1978.8	2015.6	2030.2	2026.7	2020.7	2007.9	1971.9	1935.1	1878.5
20°	1971.9	1978.8	2028.5	2074.7	2091.8	2084.1	2073.9	2048.2	2008.8	1968.5	1899.1
22.5°	2043.0	2047.3	2102.1	2147.5	2161.2	2151.8	2131.2	2094.4	2049.0	2007.0	1923.9
25°	2143.2	2148.4	2200.6	2242.6	2239.2	2228.0	2199.8	2154.4	2100.4	2055.9	1959.9
27.5°	2262.3	2270.9	2322.3	2355.7	2333.4	2317.1	2285.4	2230.6	2169.8	2129.5	2014.7
30°	2392.5	2395.9	2439.6	2473.0	2438.8	2416.5	2378.0	2318.8	2264.0	2234.0	2097.0
32.5°	2518.4	2521.9	2559.6	2578.4	2542.4	2526.1	2492.7	2430.2	2391.7	2375.4	2219.5
35°	2651.2	2650.4	2681.2	2697.5	2660.6	2653.8	2619.5	2571.5	2564.7	2586.1	2398.5
37.5°	2784.0	2776.3	2792.6	2814.0	2793.4	2800.3	2778.0	2761.7	2788.3	2843.9	2636.6
40°	2890.2	2890.2	2907.3	2933.9	2940.7	2970.7	2957.9	2979.3	3065.0	3197.7	2931.3
42.5°	2984.4	2985.3	3021.3	3062.4	3112.1	3158.3	3168.6	3224.3	3401.6	3609.8	3301.4
45°	3082.9	3083.8	3132.6	3192.6	3298.0	3386.2	3406.7	3531.8	3785.4	4038.9	3703.1
47.5°	3196.9	3187.5	3255.1	3355.3	3505.3	3632.0	3685.1	3862.5	4182.8	4494.6	4081.8
50°	3325.4	3305.7	3381.0	3554.1	3739.1	3913.0	4002.1	4205.1	4609.4	4915.2	4438.1
52.5°	3470.1	3459.0	3537.8	3748.5	4031.2	4231.7	4352.4	4618.8	5024.0	5334.1	4720.8
55°	3650.0	3623.5	3737.4	4005.5	4373.9	4629.1	4772.2	5028.3	5477.2	5714.5	4936.7
57.5°	3847.0	3817.9	3970.4	4326.7	4819.3	5099.4	5278.4	5489.2	5903.8	6005.7	5063.4
60°	4059.5	4050.1	4230.8	4703.7	5350.4	5675.9	5805.3	5996.3	6274.7	6174.5	5031.7
62.5°	4253.9	4250.5	4513.5	5112.3	5913.2	6271.3	6374.0	6424.6	6541.9	6163.3	4779.9
65°	4458.7	4487.8	4843.3	5586.0	6558.2	6909.4	6952.3	6823.8	6631.9	5871.2	4264.2
67.5°	4484.4	4540.9	5050.6	6029.7	7169.8	7501.3	7467.1	6975.4	6366.3	5058.3	3342.5
70°	4010.7	4109.2	4719.9	6097.4	7600.7	7844.8	7597.3	6649.0	5402.6	3664.6	2102.1
72.5°	3351.1	3435.9	3975.5	5199.6	7044.8	7355.7	7020.8	5627.9	3817.9	2102.1	1070.8
75°	2608.4	2706.9	3204.6	4133.1	5274.2	5398.4	5230.5	3925.0	2098.7	866.9	486.6
77.5°	1591.6	1662.7	2049.9	2800.3	3690.3	3504.4	2969.9	2200.6	920.9	415.5	300.7
80°	704.1	747.8	1009.9	1504.2	2132.1	2015.6	1589.0	939.7	503.7	263.8	209.9
82.5°	377.8	406.0	497.7	595.3	936.3	979.1	794.1	541.4	270.7	150.8	119.9
85°	166.2	182.5	226.1	215.9	307.5	302.4	305.0	371.8	129.3	69.4	78.0
87.5°	0.0	0.0	0.0	0.0	0.9	0.9	9.4	49.7	12.8	20.6	18.0
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°	1948.8	1948.8	1948.8	1948.8	1948.8	1948.8	1948.8	1948.8	1948.8	1948.8	1948.8
2.5°	1928.2	1912.8	1908.5	1903.4	1894.0	1877.7	1865.7	1852.0	1846.0	1839.1	1840.0
5°	1880.3	1861.4	1843.4	1820.3	1791.2	1758.6	1736.4	1710.7	1696.9	1684.1	1687.5
7.5°	1839.1	1810.0	1773.2	1724.4	1672.1	1613.9	1566.7	1529.9	1505.1	1487.9	1496.5
10°	1813.4	1779.2	1714.9	1635.3	1547.0	1458.0	1390.3	1326.9	1287.5	1256.6	1254.9
12.5°	1808.3	1763.8	1670.4	1554.7	1427.1	1308.0	1208.7	1123.0	1070.8	1032.2	1046.8
15°	1813.4	1756.9	1631.8	1480.2	1319.2	1158.1	1034.8	936.3	873.7	838.6	836.1
17.5°	1819.4	1750.1	1588.2	1399.7	1206.1	1021.9	878.9	774.4	710.1	675.0	675.9
20°	1824.6	1739.8	1536.8	1311.5	1091.3	895.2	747.0	647.6	590.2	564.5	568.8
22.5°	1833.1	1729.5	1481.9	1217.2	974.0	772.7	642.5	561.9	527.7	510.5	511.4
25°	1849.4	1723.5	1425.4	1114.5	858.3	675.0	570.5	516.5	495.1	484.8	484.0
27.5°	1882.8	1728.6	1366.3	1015.1	753.8	600.5	524.2	489.1	474.6	467.7	466.9
30°	1938.5	1749.2	1314.9	914.0	663.9	542.2	492.6	471.1	462.6	456.6	455.7
32.5°	2023.3	1787.7	1259.2	819.8	591.1	499.4	467.7	456.6	450.6	447.2	447.2
35°	2151.8	1858.0	1204.4	737.5	534.5	466.0	448.0	443.7	438.6	436.9	438.6
37.5°	2336.8	1970.2	1154.7	665.6	494.3	440.3	426.6	428.3	424.0	426.6	429.2
40°	2571.5	2120.1	1112.7	606.5	464.3	421.5	407.7	413.7	411.2	413.7	418.0
42.5°	2868.8	2306.0	1081.0	560.2	442.9	406.0	393.2	399.2	397.5	400.9	405.2
45°	3200.3	2551.0	1066.5	527.7	427.4	394.9	381.2	385.5	383.8	386.3	390.6
47.5°	3518.1	2773.7	1079.3	508.8	414.6	385.5	370.9	372.6	371.8	370.9	373.5
50°	3792.2	2951.0	1116.2	502.8	406.0	376.1	362.3	363.2	360.6	355.5	357.2
52.5°	4015.8	3093.2	1138.4	502.8	401.8	365.8	352.9	353.8	348.6	341.8	342.6
55°	4163.1	3150.6	1120.4	502.0	400.0	357.2	343.5	344.4	339.2	330.7	331.5
57.5°	4205.1	3094.9	1045.1	492.6	398.3	350.4	334.1	335.8	332.4	322.9	322.9
60°	4087.7	2891.1	907.2	471.1	394.0	346.1	327.2	329.8	328.1	318.7	318.7
62.5°	3780.2	2528.7	742.7	438.6	382.0	340.9	321.2	326.4	330.7	325.5	324.7
65°	3204.6	2025.9	603.9	402.6	366.6	332.4	312.7	325.5	334.9	341.8	341.8
67.5°	2404.5	1450.2	492.6	364.9	343.5	315.2	301.5	313.5	320.4	324.7	327.2
70°	1465.7	853.2	388.0	321.2	310.1	289.5	279.3	267.3	257.8	256.1	257.0
72.5°	717.0	488.3	315.2	273.3	264.7	245.8	222.7	217.6	213.3	210.7	209.9
75°	394.9	340.1	260.4	227.0	211.6	188.5	183.3	174.7	173.0	169.6	170.5
77.5°	279.3	268.1	215.0	184.2	161.0	149.1	151.6	145.6	145.6	143.1	142.2
80°	209.9	210.7	165.3	134.5	119.1	114.8	117.4	117.4	115.6	114.8	113.9
82.5°	132.8	149.9	111.4	86.5	84.8	85.7	84.8	83.9	85.7	83.1	82.2
85°	91.7	107.9	67.7	51.4	51.4	50.5	52.3	51.4	53.1	50.5	50.5
87.5°	20.6	48.0	24.8	15.4	16.3	15.4	16.3	17.1	18.8	19.7	19.7
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)