

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: P632758

Luminaire Tested: GWS-SA2D-735-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632758
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-SA2D-735-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11060 lumens
Efficiency: N/A
Efficacy: 134.7 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): 82.1
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

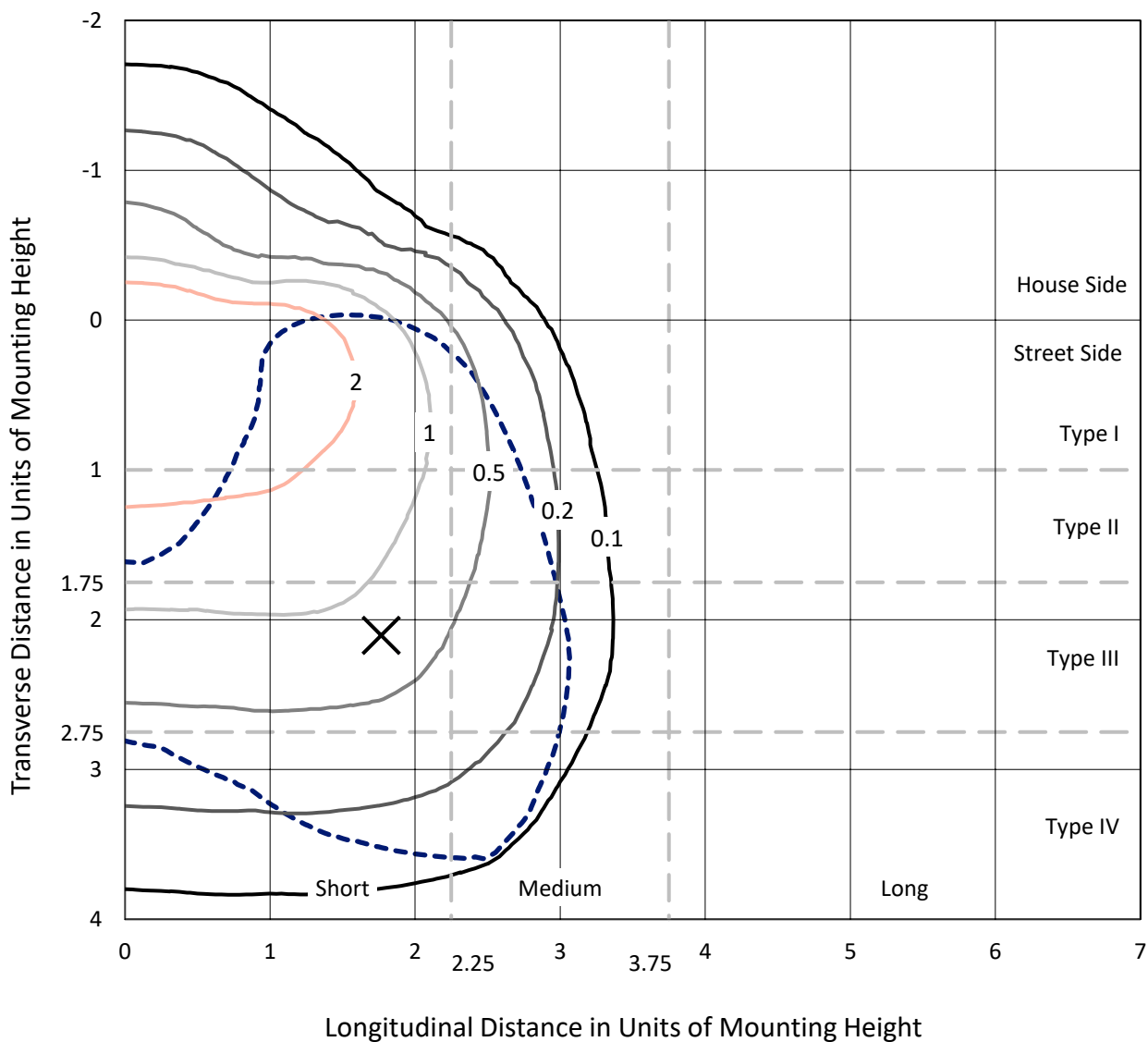


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Iso-Footcandle Lines of Horizontal Illumination

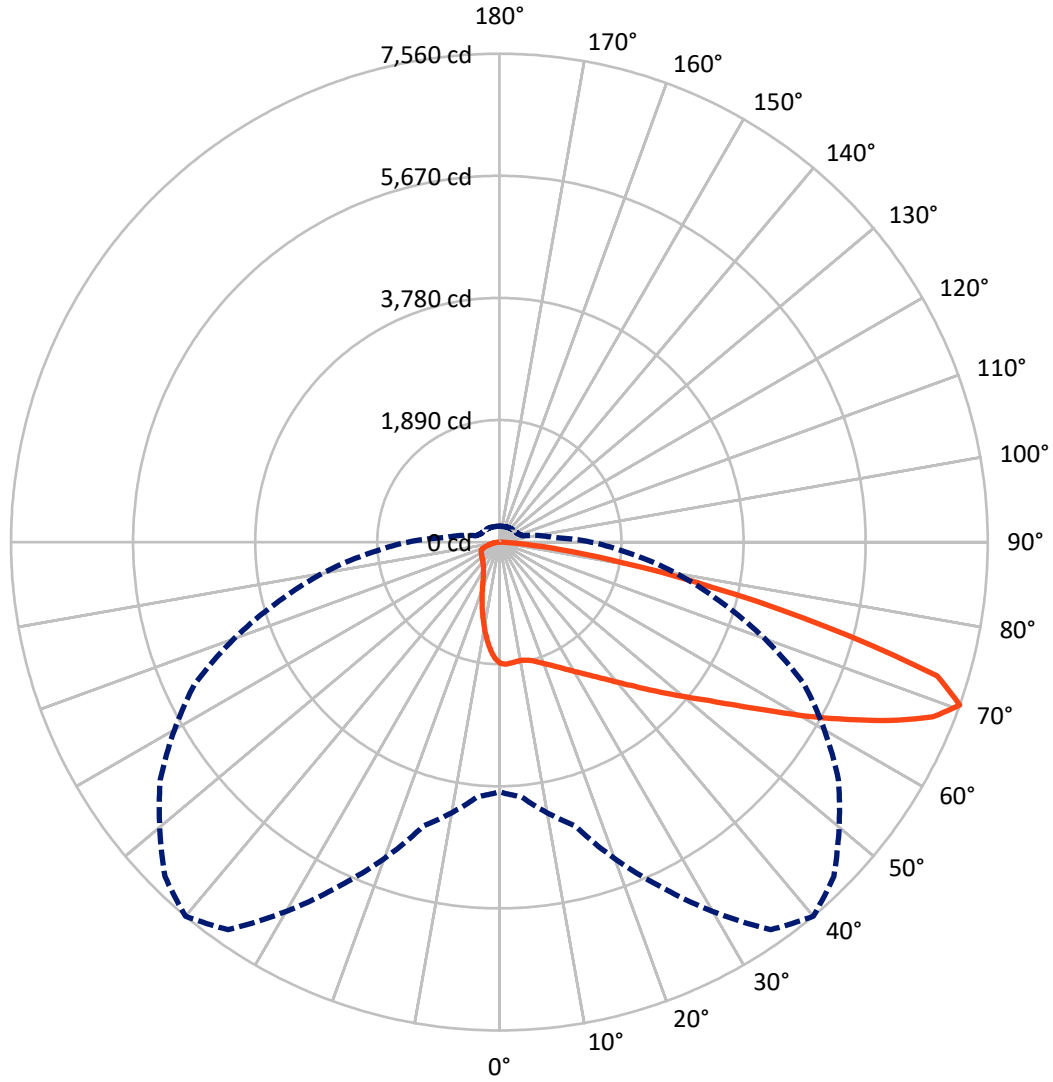
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 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	1703.5	0.0	1703.5
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	9356.5	0.0	9356.5
	% Fixture	84.6	0.0	84.6
Total	Lumens	11060.0	0.0	11060.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.9	1.5
10°-20°	432.5	3.9
20°-30°	679.1	6.1
30°-40°	1021.0	9.2
40°-50°	1575.9	14.2
50°-60°	2340.4	21.2
60°-70°	2950.0	26.7
70°-80°	1706.0	15.4
80°-90°	189.3	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°	11060.0	100.0
0°-180°	11060.0	100.0

Coefficient of Utilization



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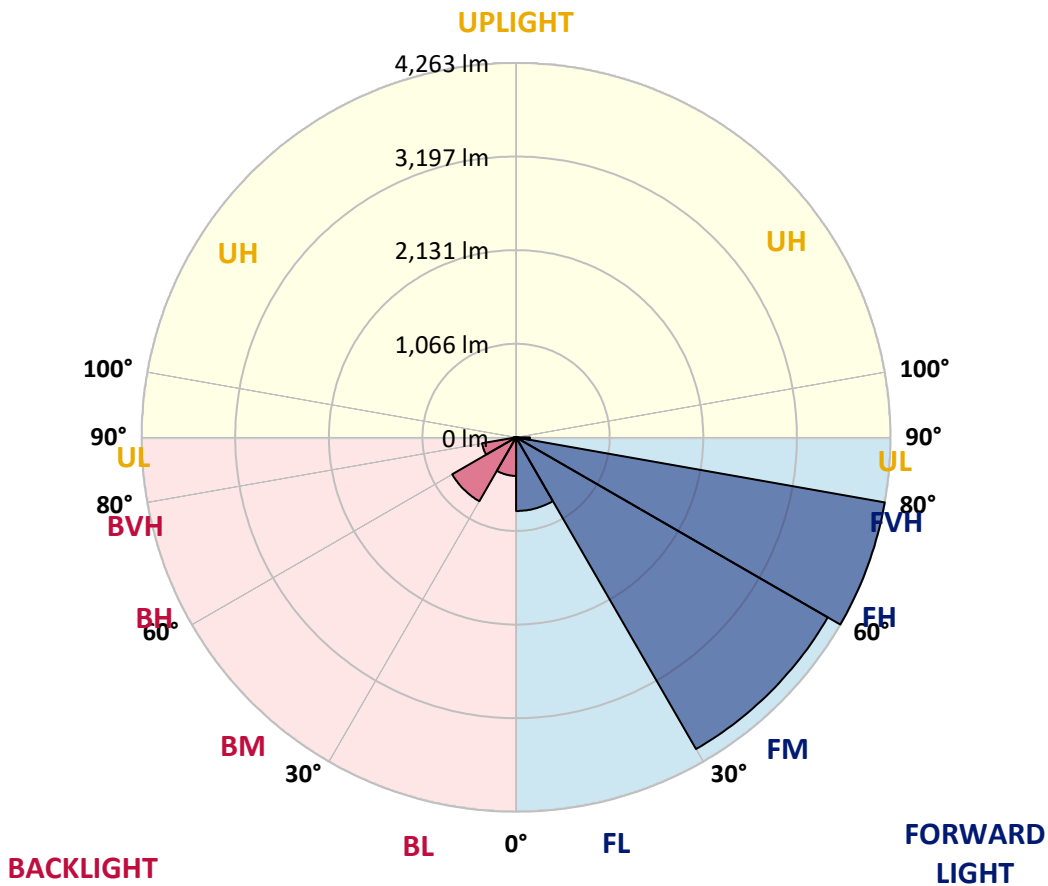
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	838.4	7.6			
FM (30°-60°)	4097.6	37.0			
FH (60°-80°)	4262.8	38.5			G2/5000
FVH (80°-90°)	157.7	1.4			G2/225
BL (0°-30°)	439.0	4.0	B1/500		
BM (30°-60°)	839.7	7.6	B1/1000		
BH (60°-80°)	393.2	3.6	B1/500		G1/500
BVH (80°-90°)	31.6	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°	1878.1	1878.1	1878.1	1878.1	1878.1	1878.1	1878.1	1878.1	1878.1	1878.1	1878.1
2.5°	1889.7	1893.0	1895.5	1898.8	1897.1	1892.1	1896.3	1896.3	1887.2	1877.3	1868.2
5°	1892.1	1896.3	1895.5	1894.6	1888.0	1879.8	1879.8	1874.8	1859.1	1843.4	1828.6
7.5°	1887.2	1886.4	1885.5	1883.1	1875.6	1866.6	1864.9	1855.0	1834.4	1812.9	1791.4
10°	1864.9	1864.1	1866.6	1872.3	1870.7	1862.4	1862.4	1853.3	1829.4	1803.0	1774.9
12.5°	1846.7	1846.7	1856.7	1872.3	1878.1	1874.8	1875.6	1869.0	1841.8	1810.4	1777.4
15°	1849.2	1850.0	1871.5	1897.1	1907.8	1905.4	1906.2	1898.8	1868.2	1836.8	1792.3
17.5°	1865.7	1869.9	1907.0	1942.5	1956.5	1953.2	1947.5	1935.1	1900.4	1864.9	1810.4
20°	1900.4	1907.0	1954.9	1999.5	2016.0	2008.6	1998.6	1973.9	1935.9	1897.1	1830.2
22.5°	1968.9	1973.1	2025.9	2069.6	2082.8	2073.8	2054.0	2018.5	1974.7	1934.3	1854.2
25°	2065.5	2070.5	2120.8	2161.3	2158.0	2147.2	2120.0	2076.2	2024.2	1981.3	1888.8
27.5°	2180.3	2188.5	2238.1	2270.2	2248.8	2233.1	2202.6	2149.7	2091.1	2052.3	1941.7
30°	2305.7	2309.0	2351.2	2383.3	2350.3	2328.9	2291.7	2234.8	2181.9	2153.0	2020.9
32.5°	2427.1	2430.4	2466.7	2484.9	2450.2	2434.5	2402.3	2342.1	2304.9	2289.2	2139.0
35°	2555.1	2554.2	2584.0	2599.6	2564.1	2557.5	2524.5	2478.3	2471.7	2492.3	2311.5
37.5°	2683.0	2675.6	2691.3	2711.9	2692.1	2698.7	2677.2	2661.6	2687.1	2740.8	2541.0
40°	2785.4	2785.4	2801.9	2827.5	2834.1	2863.0	2850.6	2871.2	2953.8	3081.8	2825.0
42.5°	2876.2	2877.0	2911.7	2951.3	2999.2	3043.8	3053.7	3107.4	3278.2	3478.8	3181.7
45°	2971.1	2972.0	3019.0	3076.8	3178.3	3263.4	3283.2	3403.7	3648.1	3892.4	3568.8
47.5°	3080.9	3071.9	3137.1	3233.7	3378.1	3500.3	3551.5	3722.4	4031.1	4331.6	3933.7
50°	3204.8	3185.8	3258.4	3425.2	3603.5	3771.1	3856.9	4052.6	4442.3	4737.0	4277.1
52.5°	3344.3	3333.6	3409.5	3612.6	3885.0	4078.2	4194.6	4451.3	4841.8	5140.7	4549.6
55°	3517.6	3492.1	3601.9	3860.2	4215.2	4461.2	4599.1	4845.9	5278.5	5507.2	4757.6
57.5°	3707.5	3679.5	3826.4	4169.8	4644.5	4914.5	5087.0	5290.1	5689.7	5787.9	4879.8
60°	3912.3	3903.2	4077.4	4533.1	5156.4	5470.1	5594.7	5778.8	6047.1	5950.5	4849.3
62.5°	4099.7	4096.4	4349.8	4926.9	5698.7	6043.8	6142.9	6191.6	6304.7	5939.8	4606.5
65°	4297.0	4325.0	4667.6	5383.4	6320.4	6658.8	6700.1	6576.3	6391.4	5658.3	4109.6
67.5°	4321.7	4376.2	4867.4	5811.0	6909.8	7229.3	7196.3	6722.4	6135.5	4874.8	3221.3
70°	3865.2	3960.1	4548.8	5876.2	7325.1	7560.3	7321.8	6407.9	5206.7	3531.7	2025.9
72.5°	3229.5	3311.3	3831.4	5011.1	6789.3	7089.0	6766.2	5423.8	3679.5	2025.9	1031.9
75°	2513.8	2608.7	3088.4	3983.3	5082.9	5202.6	5040.8	3782.6	2022.6	835.5	468.9
77.5°	1533.9	1602.4	1975.5	2698.7	3556.4	3377.3	2862.2	2120.8	887.5	400.4	289.8
80°	678.6	720.7	973.3	1449.7	2054.8	1942.5	1531.4	905.6	485.4	254.3	202.3
82.5°	364.1	391.3	479.6	573.8	902.3	943.6	765.3	521.7	260.9	145.3	115.6
85°	160.2	175.8	217.9	208.0	296.4	291.4	293.9	358.3	124.7	66.9	75.1
87.5°	0.0	0.0	0.0	0.0	0.8	0.8	9.1	47.9	12.4	19.8	17.3
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°	1878.1	1878.1	1878.1	1878.1	1878.1	1878.1	1878.1	1878.1	1878.1	1878.1	1878.1
2.5°	1858.3	1843.4	1839.3	1834.4	1825.3	1809.6	1798.0	1784.8	1779.0	1772.4	1773.3
5°	1812.1	1793.9	1776.6	1754.3	1726.2	1694.8	1673.4	1648.6	1635.4	1623.0	1626.3
7.5°	1772.4	1744.4	1708.9	1661.8	1611.5	1555.3	1509.9	1474.4	1450.5	1434.0	1442.2
10°	1747.7	1714.7	1652.7	1576.0	1490.9	1405.1	1339.9	1278.8	1240.8	1211.1	1209.4
12.5°	1742.7	1699.8	1609.8	1498.4	1375.4	1260.6	1164.8	1082.3	1031.9	994.8	1008.8
15°	1747.7	1693.2	1572.7	1426.5	1271.3	1116.1	997.3	902.3	842.1	808.2	805.7
17.5°	1753.5	1686.6	1530.6	1348.9	1162.4	984.9	847.0	746.3	684.4	650.5	651.4
20°	1758.4	1676.7	1481.0	1263.9	1051.7	862.7	719.9	624.1	568.8	544.0	548.2
22.5°	1766.7	1666.8	1428.2	1173.1	938.6	744.6	619.2	541.6	508.5	492.0	492.9
25°	1782.4	1661.0	1373.7	1074.0	827.2	650.5	549.8	497.8	477.2	467.3	466.4
27.5°	1814.5	1665.9	1316.7	978.3	726.5	578.7	505.2	471.4	457.4	450.7	449.9
30°	1868.2	1685.8	1267.2	880.9	639.8	522.6	474.7	454.0	445.8	440.0	439.2
32.5°	1949.9	1722.9	1213.6	790.0	569.6	481.3	450.7	440.0	434.2	430.9	430.9
35°	2073.8	1790.6	1160.7	710.8	515.1	449.1	431.8	427.6	422.7	421.0	422.7
37.5°	2252.1	1898.8	1112.8	641.4	476.3	424.3	411.1	412.8	408.6	411.1	413.6
40°	2478.3	2043.2	1072.4	584.5	447.4	406.2	393.0	398.7	396.3	398.7	402.9
42.5°	2764.8	2222.4	1041.8	539.9	426.8	391.3	378.9	384.7	383.1	386.4	390.5
45°	3084.2	2458.5	1027.8	508.5	411.9	380.6	367.4	371.5	369.8	372.3	376.4
47.5°	3390.5	2673.1	1040.2	490.4	399.6	371.5	357.5	359.1	358.3	357.5	359.9
50°	3654.7	2844.0	1075.7	484.6	391.3	362.4	349.2	350.0	347.6	342.6	344.3
52.5°	3870.2	2981.0	1097.1	484.6	387.2	352.5	340.1	341.0	336.0	329.4	330.2
55°	4012.1	3036.4	1079.8	483.8	385.5	344.3	331.0	331.9	326.9	318.7	319.5
57.5°	4052.6	2982.7	1007.2	474.7	383.9	337.6	322.0	323.6	320.3	311.2	311.2
60°	3939.5	2786.2	874.3	454.0	379.8	333.5	315.4	317.8	316.2	307.1	307.1
62.5°	3643.1	2437.0	715.7	422.7	368.2	328.6	309.6	314.5	318.7	313.7	312.9
65°	3088.4	1952.4	582.0	388.0	353.3	320.3	301.3	313.7	322.8	329.4	329.4
67.5°	2317.3	1397.6	474.7	351.7	331.0	303.8	290.6	302.1	308.8	312.9	315.4
70°	1412.5	822.2	374.0	309.6	298.8	279.0	269.1	257.6	248.5	246.8	247.7
72.5°	691.0	470.6	303.8	263.3	255.1	236.9	214.6	209.7	205.6	203.1	202.3
75°	380.6	327.7	251.0	218.8	203.9	181.6	176.7	168.4	166.8	163.5	164.3
77.5°	269.1	258.4	207.2	177.5	155.2	143.6	146.1	140.3	140.3	137.9	137.0
80°	202.3	203.1	159.3	129.6	114.8	110.6	113.1	113.1	111.4	110.6	109.8
82.5°	128.0	144.5	107.3	83.4	81.7	82.6	81.7	80.9	82.6	80.1	79.3
85°	88.3	104.0	65.2	49.5	49.5	48.7	50.4	49.5	51.2	48.7	48.7
87.5°	19.8	46.2	23.9	14.9	15.7	14.9	15.7	16.5	18.2	19.0	19.0
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)