

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: P631865

Luminaire Tested: GWS-SA2B-750-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631865  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-750-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

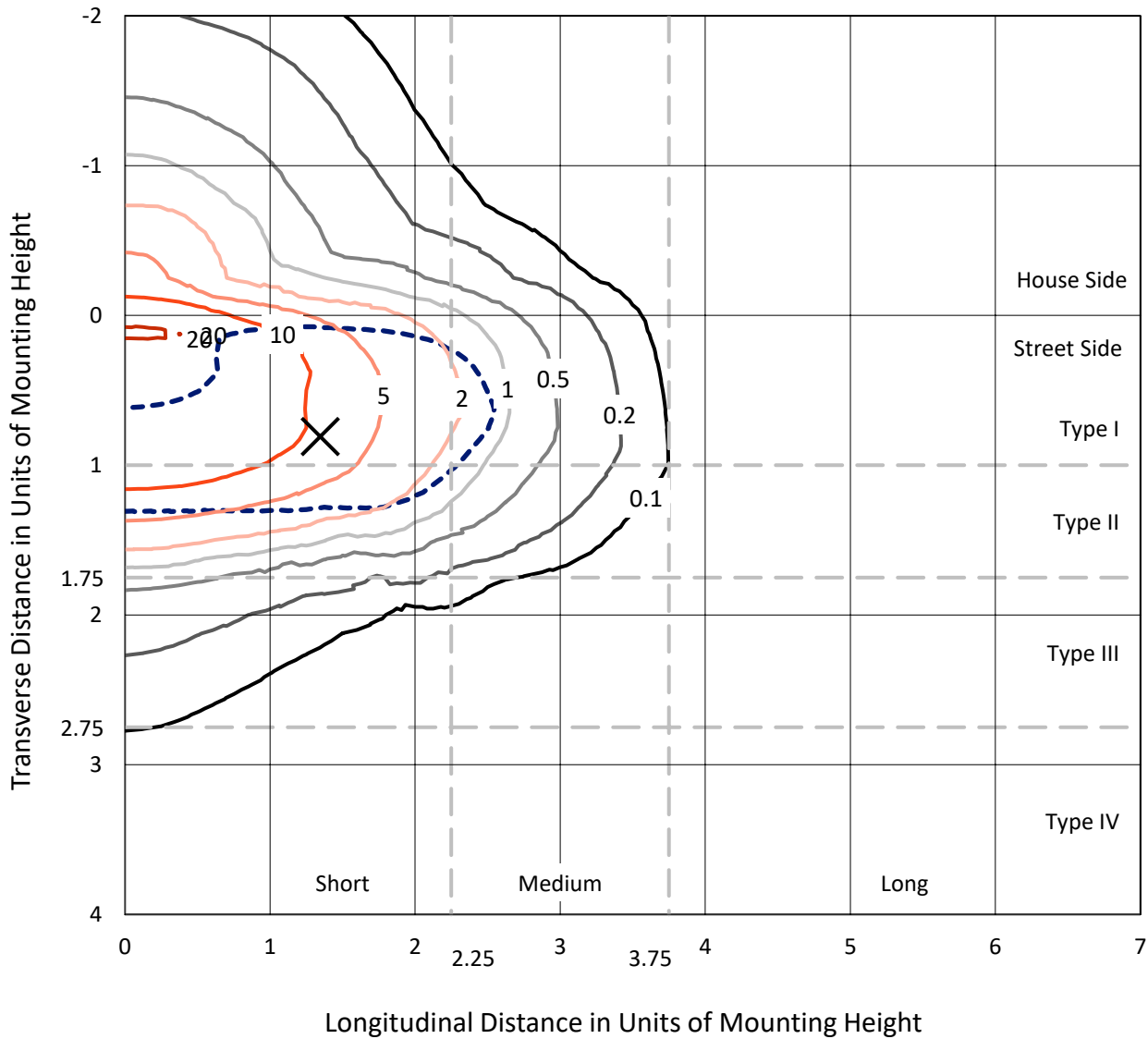
Lumens per Lamp: N/A  
Luminaire Lumens: 7188.7 lumens  
Efficiency: N/A  
Efficacy: 154.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

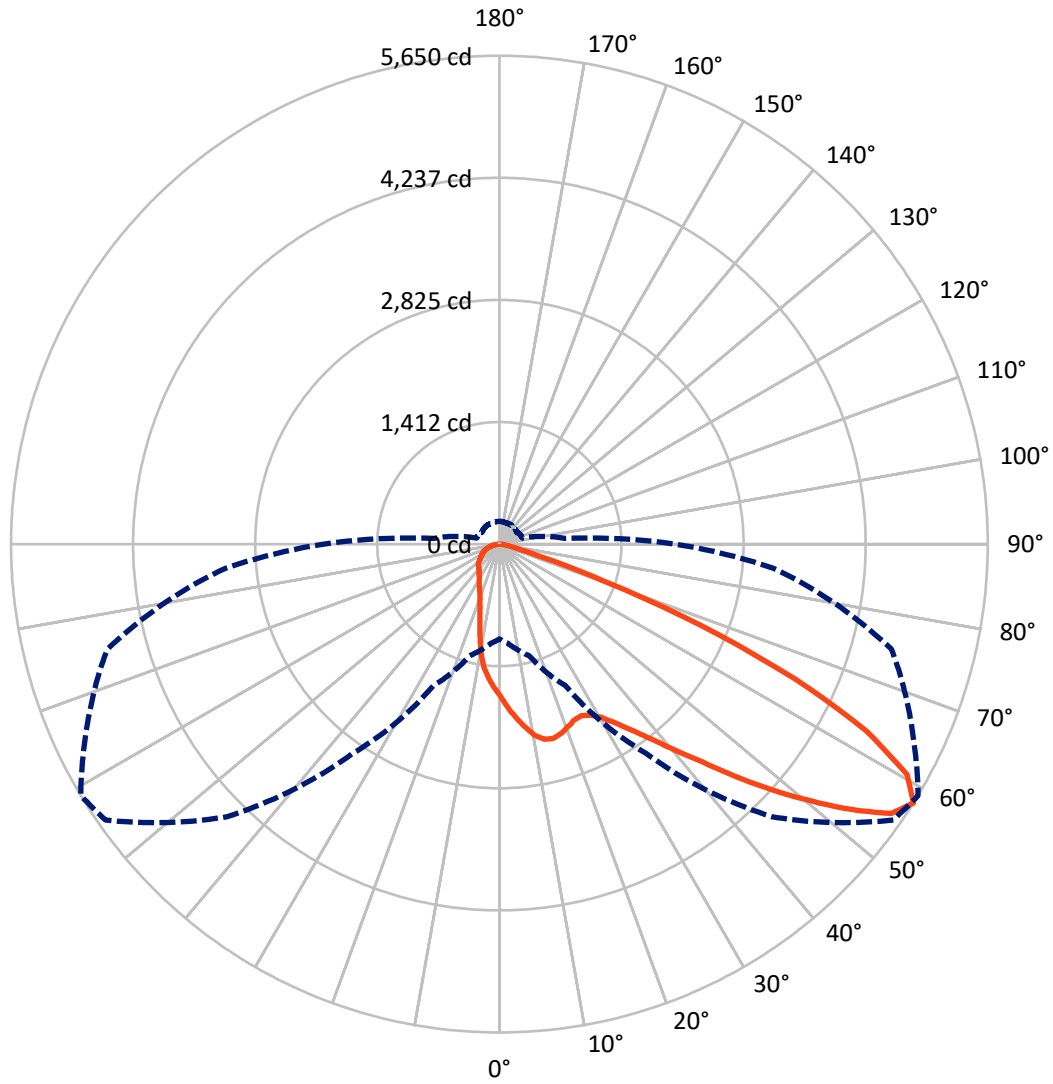
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1115.6	0.0	1115.6
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	6073.0	0.0	6073.0
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	7188.7	0.0	7188.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.9	2.3
10°-20°	415.2	5.8
20°-30°	673.1	9.4
30°-40°	1082.7	15.1
40°-50°	1681.3	23.4
50°-60°	1811.0	25.2
60°-70°	1051.0	14.6
70°-80°	274.4	3.8
80°-90°	36.1	0.5
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°	7188.7	100.0
0°-180°	7188.7	100.0

**Coefficient of Utilization**



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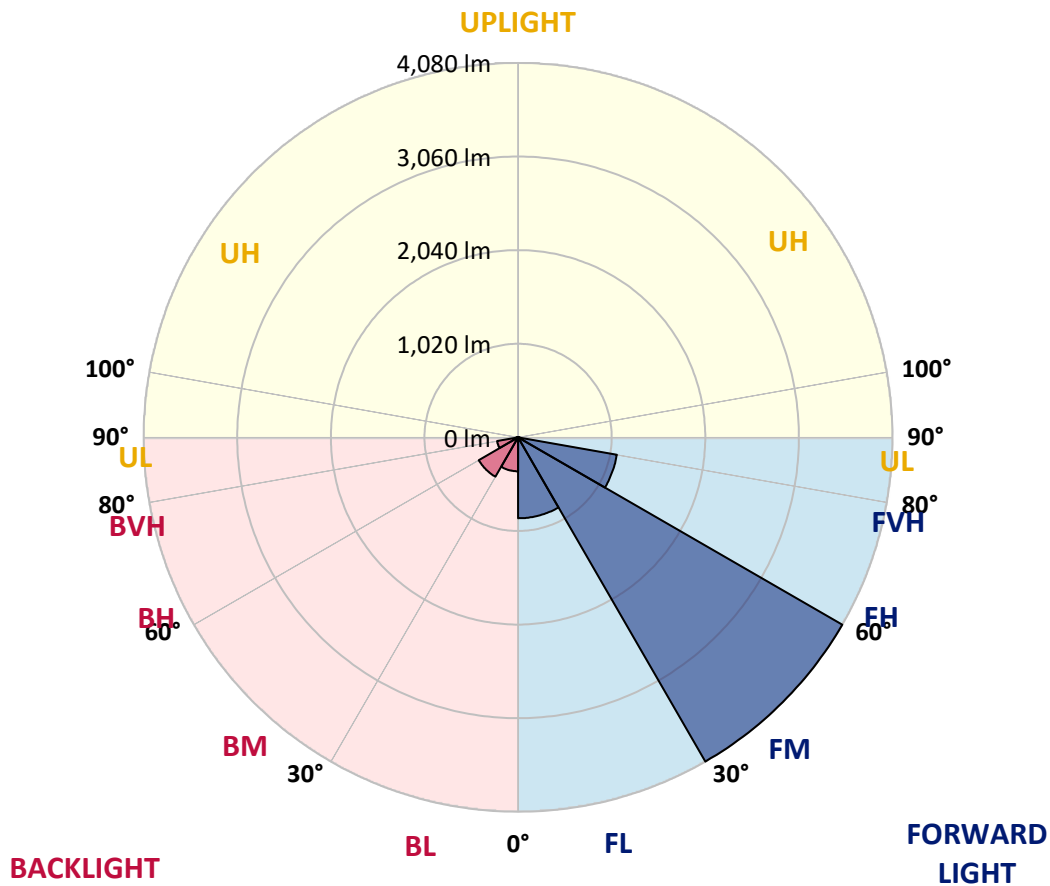
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	882.0	12.3			
FM (30°-60°)	4080.4	56.8			
FH (60°-80°)	1093.4	15.2			G1/1800
FVH (80°-90°)	17.3	0.2			G1/100
BL (0°-30°)	370.1	5.1	B1/500		
BM (30°-60°)	494.6	6.9	B1/1000		
BH (60°-80°)	232.0	3.2	B1/500		G1/500
BVH (80°-90°)	18.8	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7
2.5°	2001.5	1984.8	1996.5	1975.7	1967.1	1944.3	1915.0	1895.2	1864.9	1825.4	1791.0
5°	2200.4	2188.8	2191.3	2169.0	2149.3	2111.3	2051.1	2017.7	1966.1	1886.6	1812.8
7.5°	2194.3	2208.0	2215.6	2234.8	2240.4	2236.8	2182.7	2136.1	2079.5	1960.0	1848.7
10°	1967.1	1992.9	2016.2	2082.0	2162.0	2263.2	2275.8	2248.0	2190.8	2053.7	1891.7
12.5°	1719.6	1739.4	1760.1	1839.1	1961.5	2164.0	2301.1	2318.3	2295.6	2146.3	1940.3
15°	1598.2	1607.3	1627.0	1679.2	1776.8	2001.5	2257.1	2332.5	2373.5	2244.4	1994.9
17.5°	1593.1	1597.2	1606.8	1634.6	1702.4	1876.0	2177.6	2304.2	2434.7	2348.2	2058.7
20°	1697.9	1687.3	1681.2	1680.7	1714.1	1834.0	2100.7	2258.6	2463.6	2454.5	2127.0
22.5°	1843.1	1846.7	1833.5	1801.1	1797.1	1863.9	2062.3	2212.6	2472.2	2548.6	2190.3
25°	2049.1	2066.8	2027.8	1966.1	1935.7	1950.4	2086.0	2198.4	2471.2	2627.0	2229.8
27.5°	2289.5	2303.1	2263.7	2182.7	2119.9	2084.5	2156.9	2240.4	2479.8	2694.8	2253.6
30°	2563.3	2567.8	2513.7	2428.7	2337.1	2261.1	2274.8	2326.9	2523.8	2783.9	2281.4
32.5°	2897.8	2917.0	2835.0	2700.4	2572.4	2475.2	2433.2	2466.6	2618.9	2889.2	2324.4
35°	3322.4	3329.0	3224.7	3031.9	2850.7	2716.1	2628.0	2645.8	2763.7	3036.4	2389.2
37.5°	3722.7	3729.3	3618.4	3439.3	3180.2	2996.0	2868.4	2860.3	2948.9	3244.4	2494.9
40°	3976.7	3995.5	3945.9	3833.5	3586.0	3337.6	3164.5	3136.7	3191.8	3499.0	2642.2
42.5°	4113.4	4121.5	4120.5	4135.1	3987.9	3740.9	3498.5	3442.8	3479.8	3773.8	2791.0
45°	4114.4	4134.6	4188.8	4330.0	4336.6	4182.7	3920.6	3833.5	3799.6	4050.6	2946.4
47.5°	3930.2	3951.9	4100.7	4378.6	4583.5	4618.4	4426.1	4251.5	4108.8	4289.0	3073.9
50°	3372.5	3427.1	3710.5	4201.9	4632.1	4967.6	4908.4	4671.6	4383.6	4473.2	3153.9
52.5°	2888.2	2886.1	3060.7	3702.9	4429.2	5121.5	5375.0	5103.8	4655.4	4590.1	3174.1
55°	2114.9	2126.5	2305.2	2832.0	3887.7	4972.7	5631.6	5501.5	4967.1	4652.3	3166.0
57.5°	1096.7	1154.4	1337.6	1807.2	2954.0	4460.5	5563.3	5649.8	5283.9	4696.4	3176.6
60°	554.2	543.0	608.8	862.9	1711.5	3483.8	5142.2	5418.0	5341.1	4730.8	3183.2
62.5°	369.9	366.9	348.7	399.8	699.4	2063.3	4383.6	4770.3	4943.8	4649.8	3099.2
65°	320.3	314.3	280.9	278.8	339.6	855.8	3213.1	3750.0	4086.0	4290.0	2898.3
67.5°	288.5	279.4	245.4	228.7	243.9	376.0	1810.7	2515.2	3017.2	3628.0	2458.0
70°	257.6	253.0	219.1	194.8	193.3	229.3	667.0	1298.1	1846.2	2475.2	1797.1
72.5°	230.8	222.7	193.8	170.5	158.9	162.4	289.5	500.0	955.5	1544.0	1074.9
75°	199.9	193.8	168.5	145.2	131.1	118.9	176.6	231.3	435.7	733.8	507.6
77.5°	154.4	150.3	133.1	115.4	107.3	88.6	107.3	145.7	201.4	309.2	264.2
80°	89.6	92.1	99.2	90.1	78.9	63.3	69.8	84.0	121.0	167.5	149.8
82.5°	45.0	48.1	64.3	52.1	47.1	36.9	41.5	49.6	63.3	92.6	58.7
85°	3.5	3.5	11.6	13.2	16.2	13.2	16.7	20.2	28.8	36.9	19.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.5	4.6	8.6	5.6
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°	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7	1764.7
2.5°	1767.7	1741.9	1711.0	1685.7	1646.8	1626.0	1599.7	1567.3	1554.2	1548.1	1544.5
5°	1771.3	1725.7	1659.9	1599.2	1531.9	1478.7	1419.5	1357.8	1322.4	1313.8	1307.7
7.5°	1784.4	1720.7	1615.9	1515.7	1390.7	1274.8	1161.9	1050.1	992.9	971.2	969.1
10°	1802.6	1718.6	1571.4	1404.9	1193.8	1010.6	878.5	791.0	754.1	741.9	737.9
12.5°	1825.4	1717.1	1512.7	1251.0	966.6	793.5	718.1	703.9	709.0	708.0	708.0
15°	1854.3	1719.1	1441.8	1076.9	781.9	688.8	690.3	707.0	722.7	725.2	725.2
17.5°	1885.6	1717.1	1339.1	902.3	671.1	664.0	687.2	710.5	724.7	726.7	726.7
20°	1919.5	1707.5	1209.5	737.9	622.5	648.3	673.6	691.8	700.4	702.4	702.4
22.5°	1939.8	1680.2	1068.8	624.5	591.6	623.5	640.2	658.9	659.9	643.7	643.2
25°	1936.7	1629.1	908.4	551.6	558.7	586.5	607.8	594.6	578.4	569.3	567.8
27.5°	1917.5	1552.1	744.9	496.5	519.7	551.1	544.5	533.4	529.4	519.2	518.2
30°	1893.2	1457.5	598.2	453.4	479.3	508.1	498.0	497.0	492.9	481.8	481.8
32.5°	1869.9	1359.8	487.3	421.6	453.4	455.5	469.6	470.6	468.6	449.4	447.4
35°	1863.4	1262.2	412.5	396.3	428.1	427.1	447.4	446.9	411.9	385.1	384.6
37.5°	1883.1	1163.0	367.9	375.5	393.2	406.4	422.6	393.2	381.6	365.4	364.4
40°	1925.1	1071.4	345.1	363.4	371.0	390.2	364.9	366.9	363.9	351.7	350.2
42.5°	1980.8	993.4	332.5	359.3	358.3	363.4	335.5	343.6	348.2	339.1	337.6
45°	2034.4	925.6	325.9	344.1	349.2	319.8	314.3	321.9	328.9	325.4	323.9
47.5°	2073.9	866.9	322.4	323.4	337.6	305.2	296.1	299.6	308.2	309.7	309.2
50°	2086.0	816.8	318.3	306.2	303.1	290.5	283.4	282.4	292.5	299.6	300.6
52.5°	2062.8	772.3	307.7	291.0	276.3	278.3	275.8	270.7	280.9	290.5	291.5
55°	2028.3	747.0	291.0	276.3	259.1	267.2	268.2	263.7	270.2	276.8	276.8
57.5°	2030.9	761.6	274.8	262.7	243.9	254.6	260.1	258.1	258.1	263.2	263.7
60°	2047.6	782.9	264.2	245.4	228.7	239.9	252.5	250.5	246.0	252.5	252.5
62.5°	1999.5	754.6	257.1	228.7	212.6	225.7	240.9	239.9	234.8	245.4	246.5
65°	1857.8	678.6	249.0	208.0	196.4	211.5	224.7	228.2	223.7	237.9	240.4
67.5°	1557.2	570.9	233.3	188.3	180.2	194.3	207.0	212.0	208.5	225.2	227.2
70°	1160.9	462.0	208.5	166.5	160.4	173.1	184.7	186.7	187.2	207.0	209.0
72.5°	740.4	359.3	175.6	142.2	137.7	147.3	155.9	164.0	167.5	186.2	185.7
75°	413.0	267.2	141.2	120.4	112.3	119.9	130.1	139.7	149.8	177.1	180.2
77.5°	237.9	187.8	111.8	96.7	87.0	95.1	103.7	117.4	147.8	171.6	168.5
80°	134.1	122.0	84.5	70.9	64.8	70.9	77.4	103.2	116.4	126.5	128.0
82.5°	62.8	68.3	57.7	43.5	43.5	47.6	53.6	80.0	88.1	71.9	62.8
85°	22.8	30.9	28.3	22.3	19.7	19.2	33.4	45.5	28.3	25.3	21.8
87.5°	6.1	8.6	8.1	5.6	3.0	2.5	0.0	0.0	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)