

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: P630655

Luminaire Tested: GWS-SA1E-727-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630655  
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-SA1E-727-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (16) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

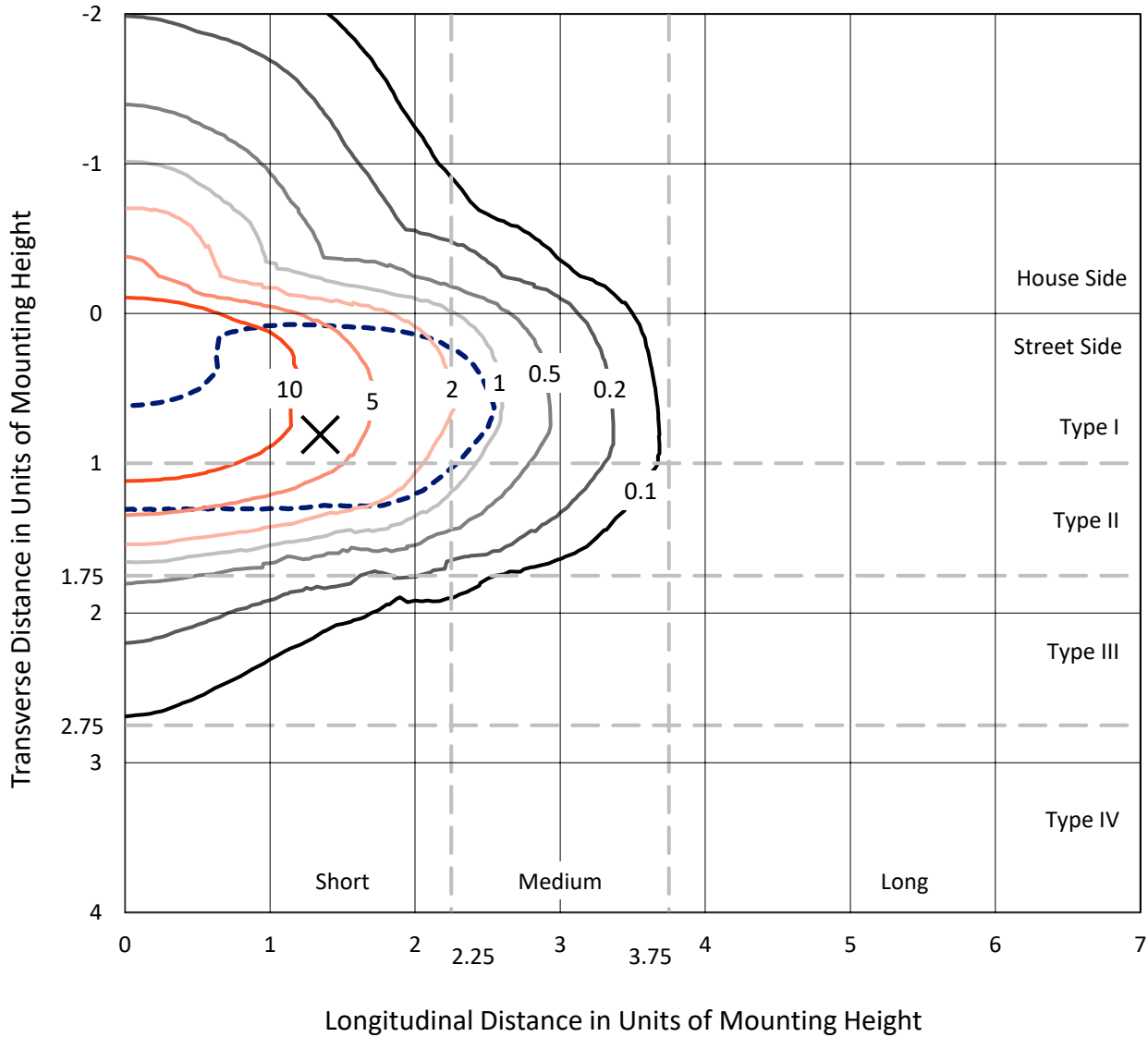
Lumens per Lamp: N/A  
Luminaire Lumens: 6453.2 lumens  
Efficiency: N/A  
Efficacy: 110.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 58.4  
Input Voltage (V): 120  
Input Current (Ain): 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

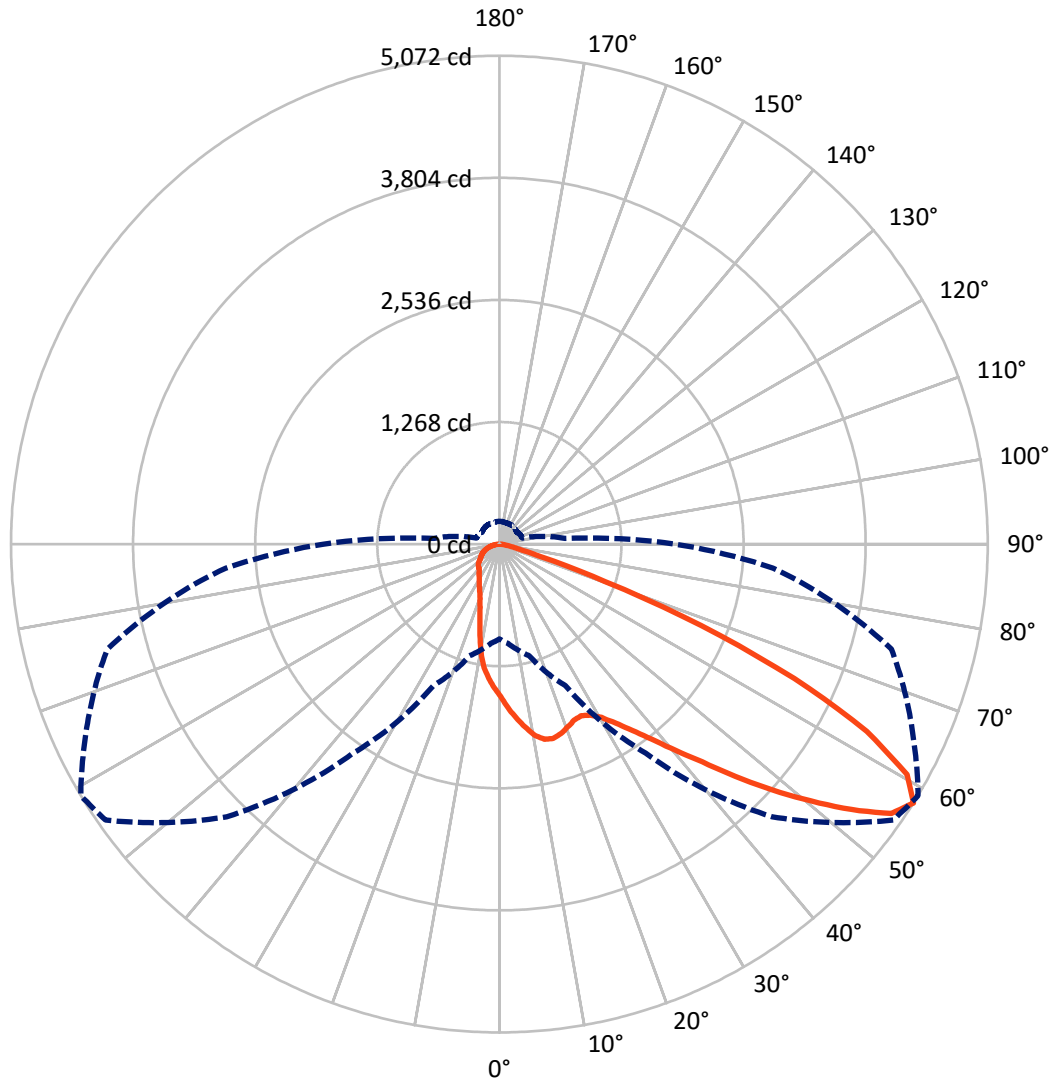
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.4 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	1001.5	0.0	1001.5
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	5451.7	0.0	5451.7
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	6453.2	0.0	6453.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.1	2.3
10°-20°	372.7	5.8
20°-30°	604.2	9.4
30°-40°	971.9	15.1
40°-50°	1509.3	23.4
50°-60°	1625.7	25.2
60°-70°	943.5	14.6
70°-80°	246.3	3.8
80°-90°	32.4	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°	6453.2	100.0
0°-180°	6453.2	100.0

**Coefficient of Utilization**



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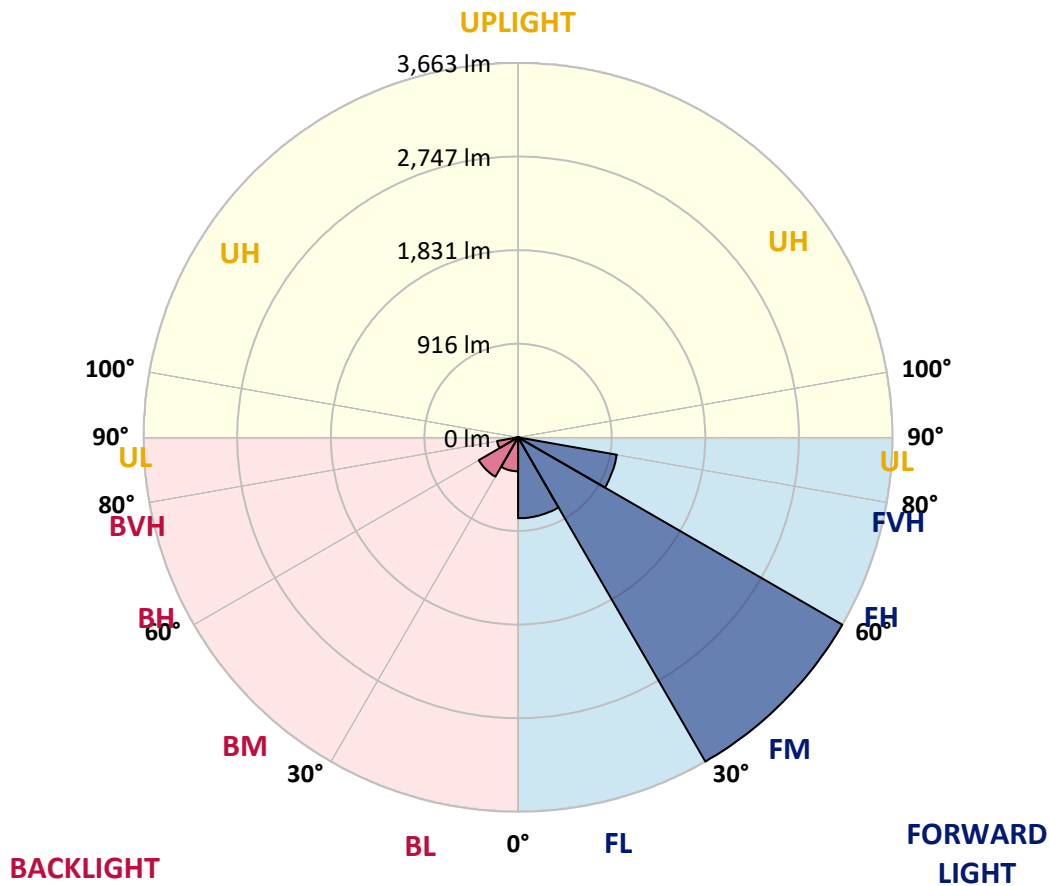
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	791.7	12.3			
FM (30°-60°)	3662.9	56.8			
FH (60°-80°)	981.5	15.2			G1/1800
FVH (80°-90°)	15.5	0.2			G1/100
BL (0°-30°)	332.3	5.1	B1/500		
BM (30°-60°)	444.0	6.9	B1/1000		
BH (60°-80°)	208.3	3.2	B1/500		G1/500
BVH (80°-90°)	16.9	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°	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1
2.5°	1796.7	1781.8	1792.2	1773.6	1765.9	1745.4	1719.1	1701.3	1674.1	1638.6	1607.8
5°	1975.3	1964.8	1967.1	1947.1	1929.4	1895.3	1841.3	1811.3	1764.9	1693.6	1627.3
7.5°	1969.8	1982.1	1988.9	2006.2	2011.2	2008.0	1959.4	1917.6	1866.7	1759.5	1659.5
10°	1765.9	1789.0	1809.9	1869.0	1940.8	2031.6	2043.0	2018.0	1966.6	1843.5	1698.2
12.5°	1543.7	1561.4	1580.0	1650.9	1760.9	1942.6	2065.7	2081.1	2060.7	1926.7	1741.8
15°	1434.7	1442.8	1460.6	1507.4	1595.0	1796.7	2026.2	2093.9	2130.7	2014.8	1790.8
17.5°	1430.1	1433.8	1442.4	1467.4	1528.3	1684.1	1954.8	2068.4	2185.6	2107.9	1848.1
20°	1524.2	1514.6	1509.2	1508.7	1538.7	1646.4	1885.8	2027.5	2211.5	2203.3	1909.4
22.5°	1654.5	1657.7	1645.9	1616.8	1613.2	1673.2	1851.3	1986.2	2219.2	2287.8	1966.2
25°	1839.4	1855.3	1820.4	1764.9	1737.7	1750.9	1872.6	1973.5	2218.3	2358.3	2001.6
27.5°	2055.2	2067.5	2032.1	1959.4	1903.0	1871.2	1936.2	2011.2	2226.1	2419.1	2023.0
30°	2301.0	2305.1	2256.5	2180.2	2097.9	2029.8	2042.1	2088.9	2265.6	2499.1	2048.0
32.5°	2601.3	2618.6	2545.0	2424.1	2309.2	2222.0	2184.3	2214.2	2351.0	2593.6	2086.6
35°	2982.5	2988.4	2894.8	2721.7	2559.1	2438.2	2359.2	2375.1	2480.9	2725.8	2144.7
37.5°	3341.8	3347.7	3248.2	3087.4	2854.8	2689.4	2575.0	2567.7	2647.2	2912.5	2239.7
40°	3569.9	3586.7	3542.1	3441.3	3219.1	2996.1	2840.7	2815.7	2865.2	3141.0	2371.9
42.5°	3692.5	3699.8	3698.9	3712.1	3579.9	3358.2	3140.6	3090.6	3123.7	3387.7	2505.4
45°	3693.4	3711.6	3760.2	3887.0	3892.9	3754.8	3519.4	3441.3	3410.9	3636.2	2644.9
47.5°	3528.1	3547.6	3681.2	3930.6	4114.6	4145.9	3973.3	3816.5	3688.4	3850.2	2759.4
50°	3027.4	3076.5	3330.9	3772.0	4158.2	4459.4	4406.2	4193.6	3935.1	4015.5	2831.2
52.5°	2592.7	2590.9	2747.6	3324.1	3976.0	4597.5	4825.1	4581.6	4179.1	4120.5	2849.3
55°	1898.5	1909.0	2069.3	2542.2	3489.9	4463.9	5055.4	4938.7	4458.9	4176.3	2842.1
57.5°	984.5	1036.3	1200.7	1622.3	2651.7	4004.2	4994.1	5071.8	4743.3	4215.9	2851.6
60°	497.5	487.5	546.5	774.6	1536.4	3127.4	4616.1	4863.7	4794.6	4246.8	2857.5
62.5°	332.1	329.4	313.0	358.9	627.8	1852.2	3935.1	4282.2	4438.0	4174.1	2782.1
65°	287.6	282.1	252.1	250.3	304.8	768.2	2884.3	3366.3	3668.0	3851.1	2601.8
67.5°	258.9	250.8	220.3	205.3	219.0	337.5	1625.5	2257.9	2708.5	3256.9	2206.5
70°	231.2	227.1	196.7	174.9	173.5	205.8	598.8	1165.3	1657.3	2222.0	1613.2
72.5°	207.2	199.9	174.0	153.1	142.6	145.8	259.9	448.8	857.7	1386.1	964.9
75°	179.4	174.0	151.3	130.4	117.7	106.8	158.5	207.6	391.1	658.7	455.7
77.5°	138.6	134.9	119.5	103.6	96.3	79.5	96.3	130.8	180.8	277.6	237.1
80°	80.4	82.7	89.0	80.9	70.9	56.8	62.7	75.4	108.6	150.4	134.5
82.5°	40.4	43.2	57.7	46.8	42.2	33.2	37.3	44.5	56.8	83.1	52.7
85°	3.2	3.2	10.4	11.8	14.5	11.8	15.0	18.2	25.9	33.2	17.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.3	4.1	7.7	5.0
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°	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1	1584.1
2.5°	1586.9	1563.7	1536.0	1513.3	1478.3	1459.7	1436.0	1407.0	1395.1	1389.7	1386.5
5°	1590.0	1549.2	1490.1	1435.6	1375.2	1327.5	1274.3	1218.9	1187.1	1179.4	1173.9
7.5°	1601.8	1544.6	1450.6	1360.6	1248.4	1144.4	1043.1	942.7	891.3	871.8	870.0
10°	1618.2	1542.8	1410.6	1261.1	1071.7	907.2	788.7	710.1	676.9	666.0	662.4
12.5°	1638.6	1541.4	1357.9	1123.0	867.7	712.3	644.6	631.9	636.5	635.6	635.6
15°	1664.5	1543.2	1294.3	966.7	701.9	618.3	619.7	634.7	648.7	651.0	651.0
17.5°	1692.7	1541.4	1202.1	810.0	602.4	596.0	616.9	637.8	650.6	652.4	652.4
20°	1723.1	1532.8	1085.8	662.4	558.8	582.0	604.7	621.0	628.7	630.6	630.6
22.5°	1741.3	1508.3	959.5	560.6	531.1	559.7	574.7	591.5	592.4	577.9	577.4
25°	1738.6	1462.4	815.5	495.2	501.5	526.5	545.6	533.8	519.3	511.1	509.7
27.5°	1721.3	1393.3	668.7	445.7	466.6	494.7	488.8	478.8	475.2	466.1	465.2
30°	1699.5	1308.4	537.0	407.0	430.2	456.1	447.0	446.1	442.5	432.5	432.5
32.5°	1678.6	1220.7	437.5	378.4	407.0	408.9	421.6	422.5	420.7	403.4	401.6
35°	1672.7	1133.0	370.3	355.7	384.3	383.4	401.6	401.1	369.8	345.7	345.3
37.5°	1690.4	1044.0	330.3	337.1	353.0	364.8	379.3	353.0	342.5	328.0	327.1
40°	1728.1	961.7	309.8	326.2	333.0	350.3	327.5	329.4	326.6	315.7	314.4
42.5°	1778.1	891.8	298.5	322.6	321.6	326.2	301.2	308.5	312.6	304.4	303.0
45°	1826.3	830.9	292.6	308.9	313.5	287.1	282.1	288.9	295.3	292.1	290.7
47.5°	1861.7	778.2	289.4	290.3	303.0	273.9	265.8	268.9	276.7	278.0	277.6
50°	1872.6	733.2	285.8	274.8	272.1	260.8	254.4	253.5	262.6	268.9	269.9
52.5°	1851.7	693.3	276.2	261.2	248.0	249.9	247.6	243.0	252.1	260.8	261.7
55°	1820.8	670.5	261.2	248.0	232.6	239.9	240.8	236.7	242.6	248.5	248.5
57.5°	1823.1	683.7	246.7	235.8	219.0	228.5	233.5	231.7	231.7	236.2	236.7
60°	1838.1	702.8	237.1	220.3	205.3	215.3	226.7	224.9	220.8	226.7	226.7
62.5°	1794.9	677.4	230.8	205.3	190.8	202.6	216.2	215.3	210.8	220.3	221.2
65°	1667.7	609.2	223.5	186.7	176.3	189.9	201.7	204.9	200.8	213.5	215.8
67.5°	1397.9	512.4	209.4	169.0	161.7	174.4	185.8	190.4	187.2	202.2	204.0
70°	1042.2	414.8	187.2	149.5	144.0	155.4	165.8	167.6	168.1	185.8	187.6
72.5°	664.6	322.6	157.6	127.7	123.6	132.2	139.9	147.2	150.4	167.2	166.7
75°	370.7	239.9	126.7	108.1	100.9	107.7	116.8	125.4	134.5	159.0	161.7
77.5°	213.5	168.5	100.4	86.8	78.1	85.4	93.1	105.4	132.7	154.0	151.3
80°	120.4	109.5	75.9	63.6	58.1	63.6	69.5	92.7	104.5	113.6	114.9
82.5°	56.3	61.3	51.8	39.1	39.1	42.7	48.2	71.8	79.0	64.5	56.3
85°	20.4	27.7	25.4	20.0	17.7	17.3	30.0	40.9	25.4	22.7	19.5
87.5°	5.5	7.7	7.3	5.0	2.7	2.3	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)