

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: P636901

Luminaire Tested: GWS-SA4B-760-U-T3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636901  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-760-U-T3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

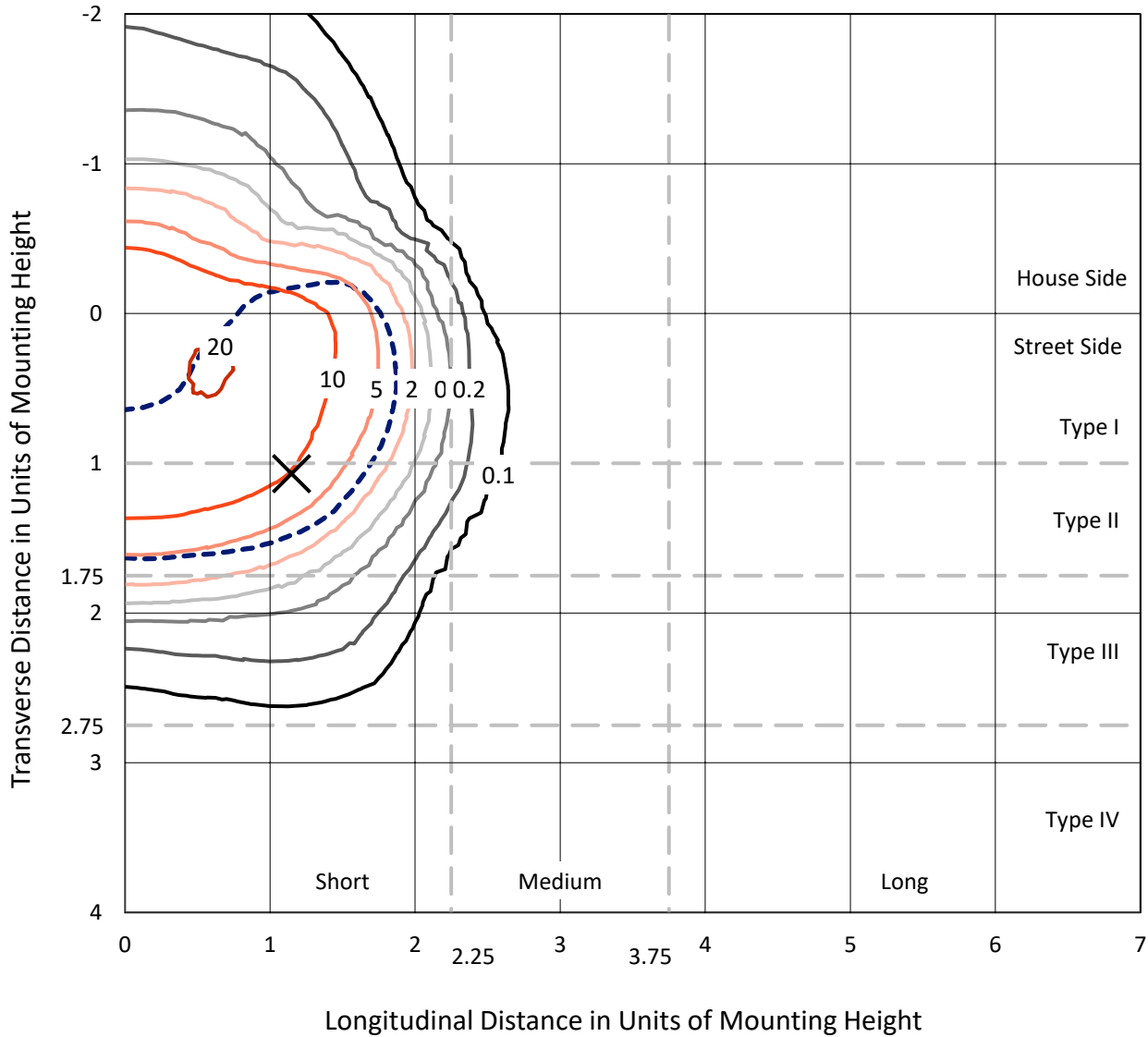
Lumens per Lamp: N/A  
Luminaire Lumens: 9017.6 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

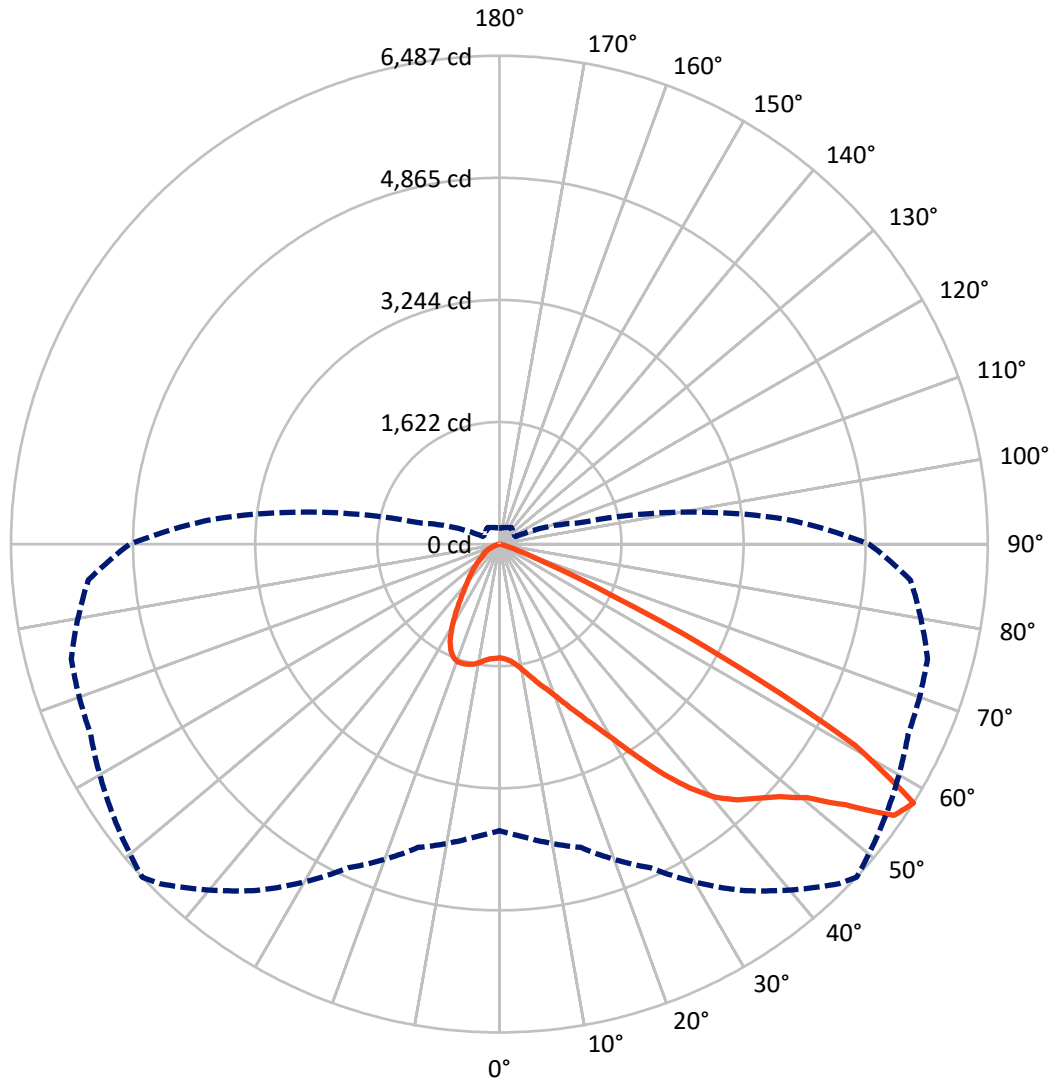
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1956.4	0.0	1956.4
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	7061.2	0.0	7061.2
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	9017.6	0.0	9017.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.2	1.7
10°-20°	506.8	5.6
20°-30°	940.9	10.4
30°-40°	1506.2	16.7
40°-50°	2201.8	24.4
50°-60°	2717.4	30.1
60°-70°	908.0	10.1
70°-80°	84.6	0.9
80°-90°	1.7	0.0
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°	9017.6	100.0
0°-180°	9017.6	100.0

**Coefficient of Utilization**



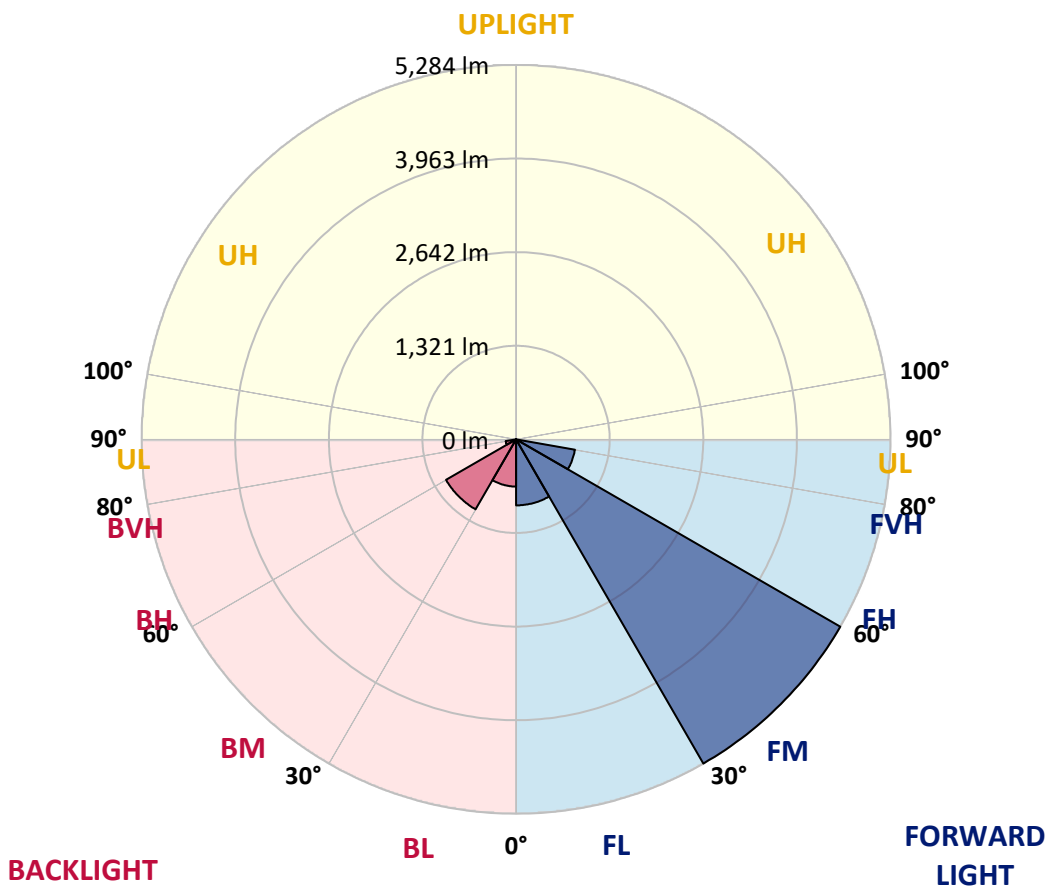
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	931.9	10.3			
FM (30°-60°)	5284.2	58.6			
FH (60°-80°)	843.9	9.4			G1/1800
FVH (80°-90°)	1.2	0.0			G0/10
BL (0°-30°)	665.9	7.4	B2/1000		
BM (30°-60°)	1141.2	12.7	B2/2500		
BH (60°-80°)	148.7	1.6	B1/500		G1/500
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1509.6	1509.6	1509.6	1509.6	1509.6	1509.6	1509.6	1509.6	1509.6	1509.6	1509.6
2.5°	1525.3	1524.2	1523.2	1529.4	1527.4	1526.3	1528.4	1528.4	1528.4	1522.1	1509.6
5°	1561.9	1561.9	1560.9	1567.1	1561.9	1558.8	1559.8	1559.8	1555.6	1544.1	1528.4
7.5°	1619.5	1617.4	1615.3	1621.6	1616.3	1615.3	1617.4	1611.1	1603.8	1584.9	1562.9
10°	1702.2	1702.2	1699.0	1705.3	1701.1	1699.0	1699.0	1694.8	1681.2	1651.9	1619.5
12.5°	1816.3	1811.0	1803.7	1798.5	1796.4	1795.3	1796.4	1790.1	1775.5	1737.8	1692.8
15°	1940.9	1936.7	1925.2	1916.8	1905.3	1903.2	1909.5	1904.2	1889.6	1838.3	1774.4
17.5°	2097.9	2103.1	2073.8	2056.0	2022.5	2020.4	2022.5	2030.9	2020.4	1954.5	1861.3
20°	2231.9	2236.1	2214.1	2201.5	2171.2	2157.6	2161.7	2175.4	2163.8	2086.4	1956.6
22.5°	2375.3	2380.5	2357.5	2331.3	2317.7	2317.7	2333.4	2352.3	2336.6	2235.0	2065.4
25°	2547.0	2551.2	2532.3	2497.8	2473.7	2504.1	2527.1	2577.3	2551.2	2413.0	2194.2
27.5°	2743.8	2744.8	2717.6	2682.0	2669.5	2726.0	2749.0	2826.5	2816.0	2612.9	2330.3
30°	2954.2	2955.3	2949.0	2924.9	2913.4	2987.7	3019.1	3131.1	3123.8	2861.0	2515.6
32.5°	3173.0	3173.0	3184.5	3182.4	3196.0	3317.5	3367.7	3495.4	3488.1	3164.6	2745.9
35°	3392.8	3393.9	3413.8	3464.0	3520.6	3681.8	3747.7	3902.7	3885.9	3527.9	3040.0
37.5°	3643.0	3632.6	3659.8	3735.2	3860.8	4047.1	4109.9	4257.5	4238.7	3899.5	3424.2
40°	3944.5	3925.7	3925.7	4013.6	4156.0	4370.6	4424.0	4497.3	4433.4	4200.0	3801.1
42.5°	4277.4	4259.6	4236.6	4314.1	4433.4	4600.9	4644.9	4625.0	4572.6	4483.7	4230.3
45°	4614.5	4587.3	4603.0	4650.1	4719.2	4798.8	4815.5	4723.4	4699.3	4724.4	4585.2
47.5°	4871.0	4852.1	4890.9	4956.8	5013.4	5024.9	5013.4	4885.6	4883.5	4972.5	4831.2
50°	4956.8	4958.9	5065.7	5210.2	5301.2	5310.7	5295.0	5148.4	5128.5	5154.7	4964.2
52.5°	4965.2	4973.6	5129.6	5404.9	5653.0	5766.0	5753.5	5595.4	5400.7	5372.4	5165.2
55°	4763.2	4812.4	5030.1	5432.1	5959.7	6320.9	6362.7	6060.2	5771.3	5747.2	5597.5
57.5°	3807.4	3907.9	4170.6	4743.3	5617.4	6378.4	6487.3	6269.6	5990.1	5887.5	5481.3
60°	2275.8	2400.4	2652.7	3355.2	4275.3	5242.6	5430.0	5460.4	5331.6	5035.3	4205.2
62.5°	976.7	966.2	1277.2	1815.2	2542.8	3332.1	3416.9	3548.8	3660.8	3351.0	2552.2
65°	335.0	364.3	506.7	818.6	1273.0	1547.2	1622.6	1740.9	1900.0	1568.2	934.8
67.5°	207.3	219.8	292.1	483.6	686.7	676.3	642.8	623.9	607.2	415.6	256.5
70°	150.7	161.2	205.2	332.9	461.7	324.5	281.6	228.2	253.3	233.4	182.2
72.5°	101.5	109.9	141.3	202.0	236.6	158.1	146.6	166.4	201.0	191.6	148.7
75°	60.7	66.0	80.6	98.4	96.3	81.7	82.7	117.2	153.9	143.4	105.7
77.5°	41.9	44.0	53.4	63.9	47.1	25.1	23.0	32.5	52.3	52.3	35.6
80°	10.5	13.6	13.6	8.4	7.3	6.3	6.3	9.4	14.7	10.5	5.2
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1	2.1	2.1
85°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1	2.1
87.5°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1
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°	1509.6	1509.6	1509.6	1509.6	1509.6	1509.6	1509.6	1509.6	1509.6	1509.6	1509.6
2.5°	1516.9	1504.3	1512.7	1510.6	1516.9	1519.0	1509.6	1507.5	1508.5	1495.9	1491.8
5°	1531.5	1516.9	1521.1	1516.9	1524.2	1530.5	1527.4	1531.5	1536.8	1527.4	1523.2
7.5°	1562.9	1548.3	1547.2	1541.0	1551.4	1555.6	1554.6	1566.1	1576.6	1570.3	1564.0
10°	1617.4	1597.5	1595.4	1590.2	1593.3	1596.4	1584.9	1587.0	1596.4	1589.1	1586.0
12.5°	1684.4	1660.3	1655.1	1642.5	1642.5	1626.8	1601.7	1596.4	1603.8	1598.5	1593.3
15°	1756.6	1724.2	1715.8	1693.8	1672.9	1643.6	1617.4	1611.1	1616.3	1610.1	1605.9
17.5°	1837.2	1800.6	1773.4	1734.6	1688.6	1654.0	1624.7	1611.1	1602.7	1590.2	1589.1
20°	1916.8	1868.6	1822.6	1760.8	1700.1	1647.7	1599.6	1564.0	1533.6	1514.8	1507.5
22.5°	2008.9	1937.7	1863.4	1776.5	1689.6	1610.1	1525.3	1464.5	1412.2	1394.4	1386.0
25°	2107.3	2015.2	1904.2	1791.2	1654.0	1526.3	1411.2	1321.1	1252.0	1229.0	1219.6
27.5°	2216.2	2089.5	1946.1	1788.0	1580.7	1407.0	1254.1	1142.1	1074.1	1053.1	1060.5
30°	2354.4	2185.8	1998.4	1755.6	1470.8	1239.5	1060.5	966.2	914.9	895.1	896.1
32.5°	2538.6	2324.0	2074.9	1686.5	1329.5	1048.9	891.9	822.8	788.3	762.1	760.0
35°	2802.4	2534.4	2146.0	1575.5	1157.8	879.4	765.2	710.8	662.7	632.3	637.5
37.5°	3118.6	2799.3	2184.8	1425.8	965.2	747.5	670.0	614.5	560.1	515.0	520.3
40°	3493.3	3145.8	2181.6	1229.0	789.3	657.4	590.4	525.5	457.5	416.6	420.8
42.5°	3911.0	3473.4	2113.6	1020.7	654.3	584.1	514.0	432.3	366.4	341.3	342.3
45°	4273.2	3739.3	1994.2	805.0	550.6	513.0	434.4	350.7	321.4	303.6	302.5
47.5°	4541.2	3934.1	1823.6	633.3	466.9	448.1	357.0	314.1	291.0	276.4	274.3
50°	4690.9	4002.1	1635.2	496.2	394.7	380.0	319.3	284.7	269.0	259.6	257.5
52.5°	4891.9	4083.8	1500.1	391.5	330.8	310.9	294.2	264.9	254.4	247.1	243.9
55°	5210.2	4241.8	1382.9	310.9	275.3	271.1	277.4	253.3	247.1	235.5	231.4
57.5°	4910.8	3810.5	1074.1	240.8	232.4	248.1	268.0	241.8	226.1	215.7	211.5
60°	3455.6	2533.4	540.2	193.7	207.3	232.4	252.3	218.8	203.1	205.2	203.1
62.5°	1905.3	1267.7	242.9	162.3	180.1	205.2	215.7	189.5	179.0	196.8	199.9
65°	622.9	431.3	140.3	125.6	142.4	167.5	186.3	180.1	178.0	198.9	205.2
67.5°	191.6	142.4	95.3	90.0	98.4	123.5	157.0	194.7	209.4	215.7	218.8
70°	143.4	112.0	81.7	76.4	80.6	94.2	132.9	162.3	152.8	153.9	151.8
72.5°	115.2	89.0	70.1	67.0	67.0	64.9	70.1	87.9	99.5	104.7	104.7
75°	80.6	62.8	53.4	49.2	38.7	31.4	28.3	28.3	25.1	24.1	23.0
77.5°	27.2	23.0	20.9	16.7	11.5	9.4	8.4	7.3	5.2	3.1	2.1
80°	4.2	3.1	2.1	2.1	2.1	1.0	1.0	1.0	0.0	0.0	0.0
82.5°	2.1	2.1	2.1	2.1	2.1	1.0	1.0	0.0	0.0	0.0	0.0
85°	2.1	2.1	2.1	2.1	2.1	1.0	1.0	0.0	0.0	0.0	0.0
87.5°	2.1	2.1	2.1	2.1	1.0	1.0	1.0	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)