

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: P632312

Luminaire Tested: GWS-SA2C-740-U-SL2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632312  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2C-740-U-SL2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

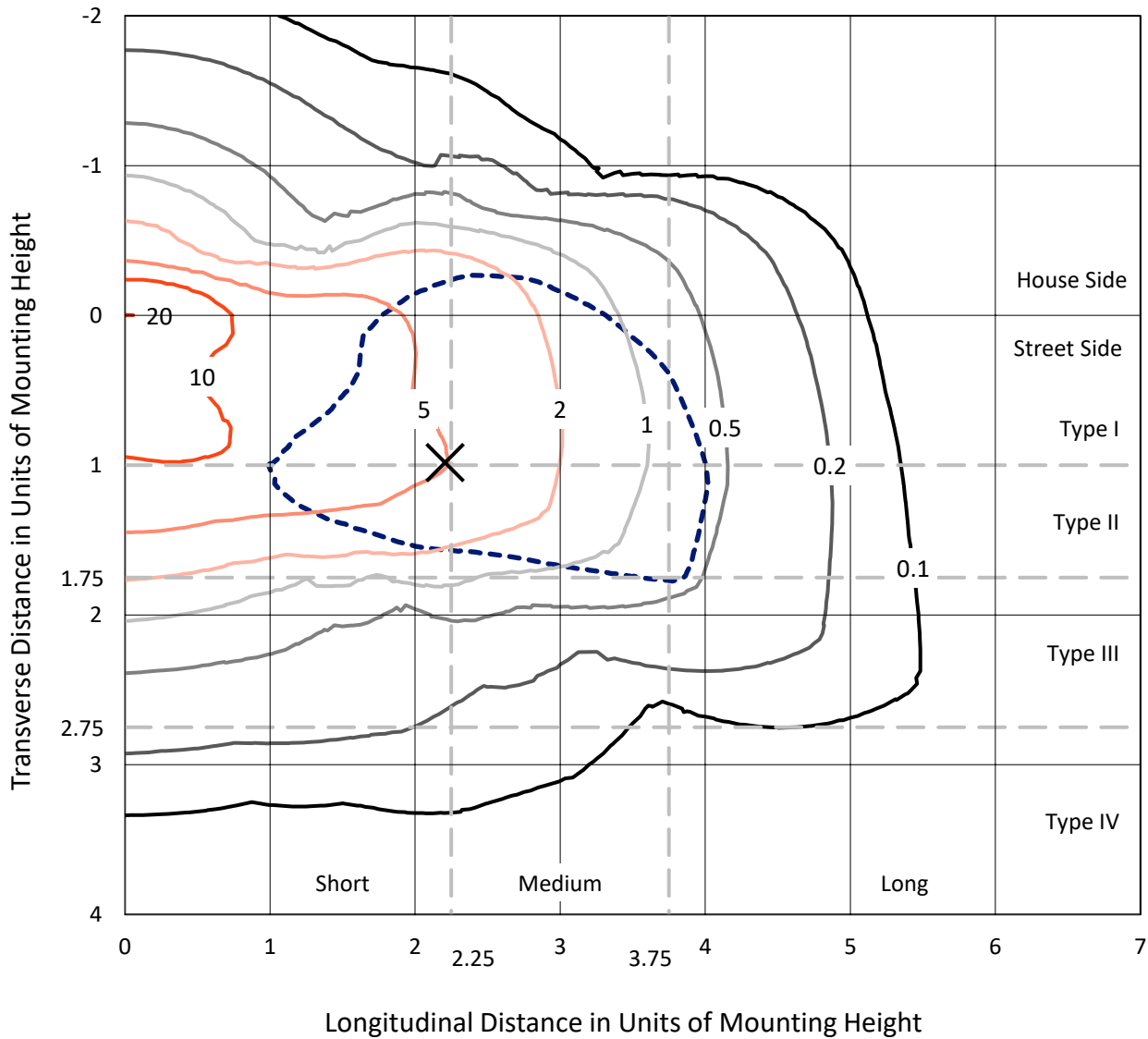
Lumens per Lamp: N/A  
Luminaire Lumens: 9095 lumens  
Efficiency: N/A  
Efficacy: 143.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

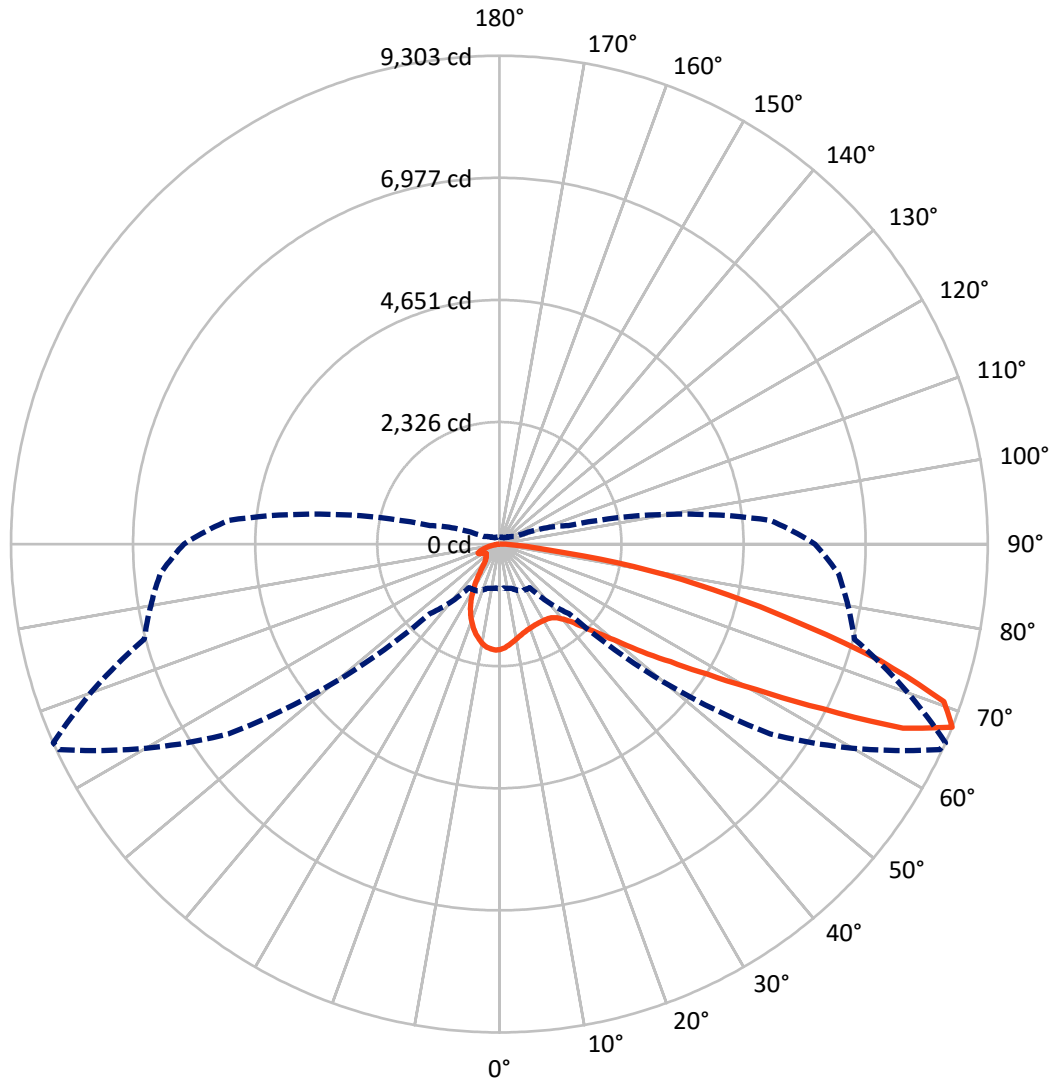
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1845.6	0.0	1845.6
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	7249.4	0.0	7249.4
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	9095.0	0.0	9095.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.4	1.9
10°-20°	433.5	4.8
20°-30°	595.8	6.6
30°-40°	814.6	9.0
40°-50°	1234.3	13.6
50°-60°	1918.8	21.1
60°-70°	2336.1	25.7
70°-80°	1423.0	15.6
80°-90°	162.5	1.8
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°	9095.0	100.0
0°-180°	9095.0	100.0

**Coefficient of Utilization**



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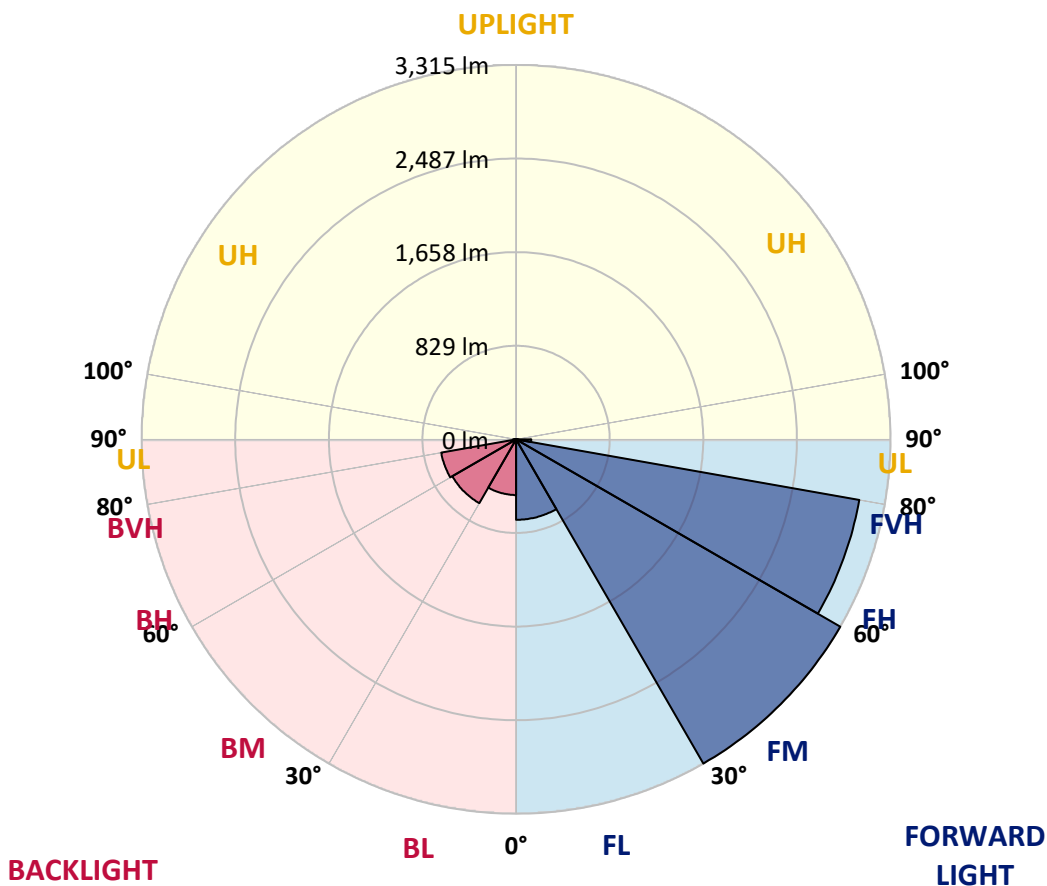
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	712.6	7.8			
FM (30°-60°)	3315.5	36.5			
FH (60°-80°)	3086.2	33.9			G2/5000
FVH (80°-90°)	135.1	1.5			G2/225
BL (0°-30°)	493.0	5.4	B1/500		
BM (30°-60°)	652.2	7.2	B1/1000		
BH (60°-80°)	672.9	7.4	B2/1000		G2/1000
BVH (80°-90°)	27.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2009.7	2009.7	2009.7	2009.7	2009.7	2009.7	2009.7	2009.7	2009.7	2009.7	2009.7
2.5°	1882.3	1889.0	1885.0	1910.2	1911.5	1943.4	1961.3	1976.6	1977.9	1997.8	2011.1
5°	1753.6	1757.6	1757.6	1781.5	1797.4	1839.9	1881.0	1924.8	1928.1	1975.9	2012.4
7.5°	1649.5	1653.4	1650.8	1682.6	1703.2	1750.3	1802.7	1869.7	1876.4	1953.3	2017.0
10°	1567.8	1566.5	1573.2	1602.3	1628.9	1685.3	1743.7	1820.0	1829.9	1927.5	2022.3
12.5°	1512.1	1513.4	1517.4	1547.9	1576.5	1632.2	1692.6	1775.5	1786.1	1897.6	2019.7
15°	1485.6	1482.9	1486.2	1514.1	1541.3	1590.4	1652.8	1738.4	1749.0	1871.1	2020.4
17.5°	1479.6	1477.6	1476.9	1496.9	1517.4	1563.2	1622.9	1709.8	1721.1	1853.8	2024.3
20°	1498.2	1495.5	1488.2	1496.9	1505.5	1544.0	1601.7	1689.3	1701.9	1842.5	2032.3
22.5°	1549.3	1544.6	1533.3	1522.7	1511.4	1534.7	1588.4	1674.0	1686.6	1835.2	2040.3
25°	1626.9	1622.9	1611.0	1587.1	1546.0	1542.0	1585.8	1667.4	1680.0	1829.9	2043.6
27.5°	1733.7	1727.7	1715.8	1681.3	1614.3	1569.2	1595.7	1666.7	1678.7	1824.0	2040.3
30°	1860.4	1856.5	1849.8	1808.0	1718.5	1626.9	1618.3	1672.0	1681.3	1820.6	2033.6
32.5°	1989.2	1985.2	1990.5	1970.6	1860.4	1722.4	1667.4	1686.6	1693.2	1820.0	2027.7
35°	2102.6	2107.3	2145.8	2149.1	2040.9	1851.8	1745.0	1720.5	1721.8	1833.2	2030.3
37.5°	2221.4	2239.3	2289.7	2332.9	2242.6	2023.0	1860.4	1784.1	1782.8	1867.1	2046.9
40°	2378.6	2386.6	2451.0	2531.9	2475.5	2257.9	2024.3	1888.3	1879.0	1936.1	2091.3
42.5°	2531.9	2551.2	2654.0	2746.9	2728.3	2522.6	2230.7	2044.2	2027.7	2058.2	2182.9
45°	2727.0	2745.6	2861.0	2980.4	3014.3	2821.9	2494.8	2265.8	2249.3	2242.0	2350.8
47.5°	2922.0	2941.3	3044.8	3217.3	3336.1	3196.1	2838.4	2558.4	2531.2	2502.7	2604.2
50°	3053.4	3076.0	3174.8	3381.9	3660.5	3663.2	3245.8	2942.0	2907.5	2862.3	2961.2
52.5°	3048.8	3063.4	3157.6	3396.4	3894.1	4199.9	3791.2	3430.3	3402.4	3304.2	3390.5
55°	2809.3	2831.1	2926.0	3224.6	3919.3	4708.8	4592.7	4006.2	3956.4	3780.6	3875.5
57.5°	2328.2	2346.8	2442.3	2810.6	3695.7	4969.6	5610.5	4740.0	4671.7	4299.5	4408.9
60°	1757.6	1735.0	1780.2	2102.6	3160.9	4976.2	6508.9	5735.3	5621.2	4854.2	4945.7
62.5°	1319.0	1296.5	1306.4	1397.3	2143.1	4574.2	7021.1	7096.8	6908.3	5480.5	5462.6
65°	1042.4	1029.7	1058.3	1120.6	1249.4	3483.4	7025.1	8569.1	8450.3	6206.4	5992.7
67.5°	849.3	841.3	870.5	986.0	1013.2	1871.7	6299.3	9256.5	9302.9	7001.2	6484.4
70°	684.1	672.1	717.9	869.8	942.2	1132.6	4512.5	8906.1	8981.1	7475.0	6345.7
72.5°	472.4	473.1	496.3	704.6	909.7	978.0	2552.5	7415.9	7578.5	7045.7	5578.7
75°	318.5	321.1	327.8	465.1	838.0	948.8	1360.2	5614.5	5729.3	5823.5	4611.3
77.5°	192.4	193.7	209.0	281.3	577.9	885.8	921.6	4069.9	4160.1	3839.0	2858.4
80°	111.5	116.1	130.0	188.4	390.1	665.5	713.3	2495.4	2597.6	1706.5	908.3
82.5°	49.1	52.4	71.0	109.5	227.6	566.0	556.7	986.0	971.4	475.7	315.2
85°	8.6	10.6	15.3	34.5	83.6	298.6	431.9	435.3	409.4	180.5	130.7
87.5°	0.0	0.0	0.0	0.0	0.0	2.0	65.0	116.8	116.1	51.1	45.1
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°	2009.7	2009.7	2009.7	2009.7	2009.7	2009.7	2009.7	2009.7	2009.7	2009.7	2009.7
2.5°	2019.7	2001.8	2017.7	2019.7	2016.4	2013.7	1993.8	1976.6	1974.6	1956.0	1956.0
5°	2027.0	2010.4	2018.4	2003.1	1979.2	1954.7	1912.2	1883.0	1869.7	1845.9	1845.9
7.5°	2036.9	2019.7	2010.4	1972.6	1916.8	1863.1	1794.8	1737.7	1714.5	1680.6	1679.3
10°	2046.2	2024.3	1992.5	1918.8	1829.9	1744.3	1644.8	1563.9	1508.8	1468.3	1468.3
12.5°	2045.6	2017.0	1954.0	1845.2	1722.4	1598.4	1465.7	1343.6	1270.6	1207.6	1203.6
15°	2044.2	2005.1	1904.9	1759.6	1597.0	1425.2	1244.7	1085.5	977.3	915.6	910.3
17.5°	2042.9	1989.8	1849.8	1662.1	1444.4	1210.2	972.0	799.5	709.3	671.5	672.8
20°	2042.9	1972.6	1790.8	1549.9	1268.6	952.8	713.3	587.9	565.3	567.3	569.3
22.5°	2036.9	1951.3	1725.1	1427.8	1072.9	700.7	526.2	483.7	495.6	514.2	516.9
25°	2023.0	1916.2	1648.8	1292.5	840.0	510.2	429.3	421.3	443.2	466.4	473.1
27.5°	2001.1	1875.7	1563.2	1133.9	618.4	410.0	377.5	376.9	394.1	411.4	417.3
30°	1977.9	1830.6	1473.0	957.4	447.9	357.0	344.4	344.4	353.0	363.6	362.3
32.5°	1950.7	1784.8	1376.1	773.6	364.9	327.1	323.1	321.1	322.5	326.4	326.4
35°	1927.5	1744.3	1276.6	579.2	327.1	310.5	306.5	301.9	299.9	297.2	298.6
37.5°	1918.8	1712.5	1173.7	436.6	308.5	298.6	291.9	285.3	280.7	279.3	278.7
40°	1932.8	1699.2	1070.9	359.6	295.3	286.0	278.7	270.0	266.1	266.1	266.1
42.5°	1987.2	1709.2	966.1	325.1	286.0	275.4	264.7	256.8	255.4	256.8	257.4
45°	2086.7	1747.7	857.2	307.9	278.0	264.7	252.1	246.2	246.2	247.5	247.5
47.5°	2264.5	1848.5	749.8	297.2	270.0	256.1	242.8	236.9	236.2	237.5	237.5
50°	2572.4	2030.3	652.9	289.9	264.1	249.5	236.2	228.2	226.3	225.6	225.6
52.5°	2960.5	2345.5	591.2	284.6	256.8	242.2	228.9	218.3	214.3	212.3	212.3
55°	3429.6	2765.5	591.2	280.7	247.5	233.6	218.3	207.7	201.7	199.0	199.0
57.5°	3961.1	3254.5	693.4	277.3	240.2	223.6	207.0	196.4	189.8	185.8	185.8
60°	4501.8	3771.3	946.1	272.7	233.6	211.0	194.4	184.5	175.8	171.2	170.5
62.5°	5062.5	4340.6	1279.2	275.4	228.9	199.0	181.1	169.9	162.6	157.9	157.2
65°	5576.0	4882.7	1570.5	295.9	229.6	188.4	165.9	155.9	150.0	144.0	143.3
67.5°	6012.0	5181.9	1366.1	337.7	243.5	175.8	150.6	140.7	135.4	131.4	130.7
70°	5706.8	4725.4	775.0	363.6	262.7	162.6	133.4	126.7	121.4	118.8	118.1
72.5°	4880.0	4000.9	518.2	321.1	239.5	145.3	117.4	112.1	108.2	104.8	104.2
75°	3953.1	3172.8	396.1	263.4	186.4	118.1	100.9	96.9	92.9	89.6	88.9
77.5°	2338.8	1833.2	291.9	208.3	131.4	92.2	83.6	80.3	76.3	73.6	73.0
80°	746.4	637.0	185.1	143.3	86.9	71.0	64.4	61.7	57.7	54.4	53.7
82.5°	284.6	246.2	98.2	73.0	57.7	48.4	43.1	40.5	37.8	34.5	33.8
85°	126.1	118.1	54.4	39.1	31.2	23.9	21.2	19.9	16.6	13.9	13.3
87.5°	44.5	44.5	23.2	11.3	6.6	3.3	2.0	0.7	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)