

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: P639049

Luminaire Tested: GWS-SA5B-722-U-T3-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639049  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5B-722-U-T3-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

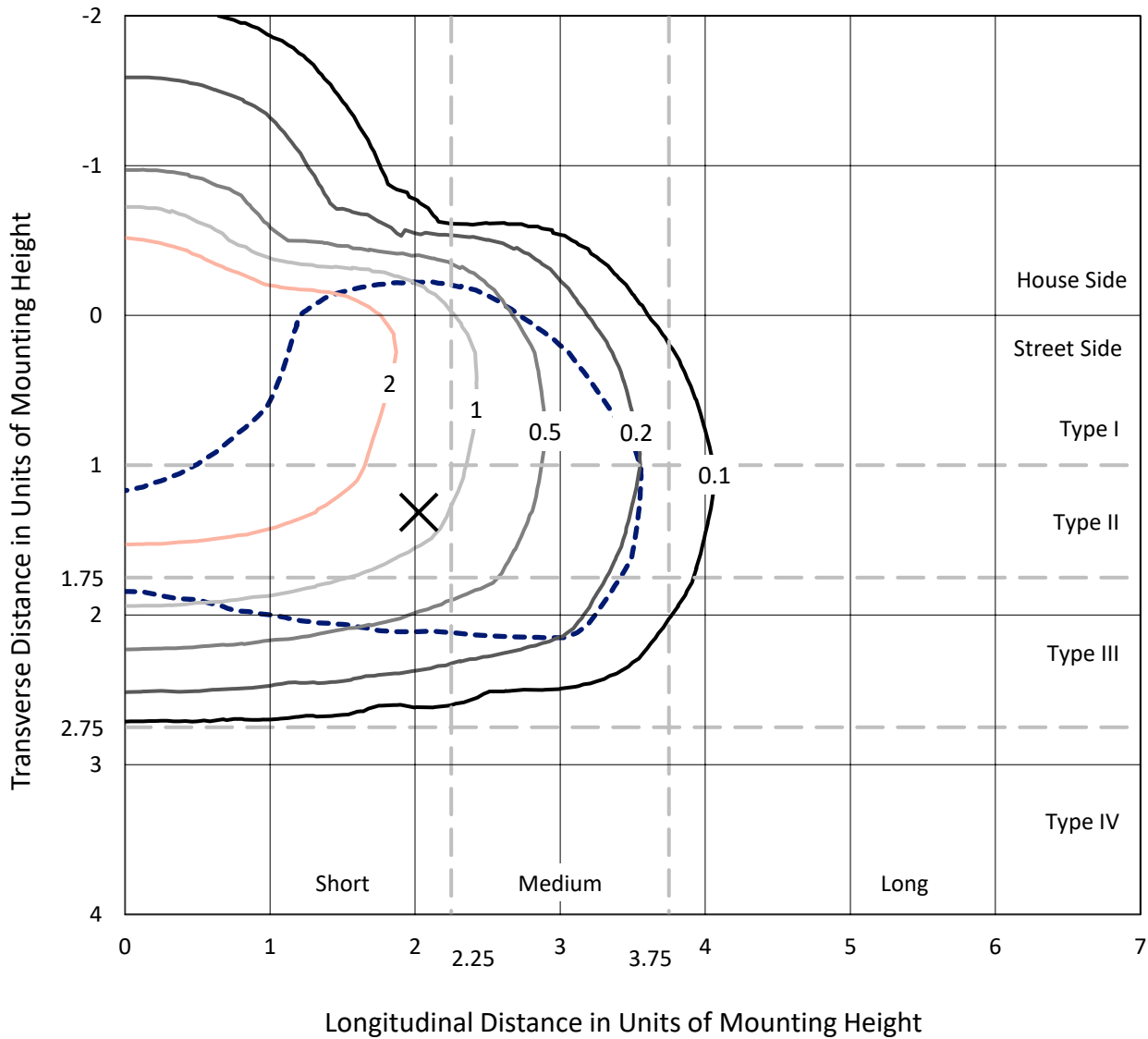
Lumens per Lamp: N/A  
Luminaire Lumens: 13087.8 lumens  
Efficiency: N/A  
Efficacy: 113.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

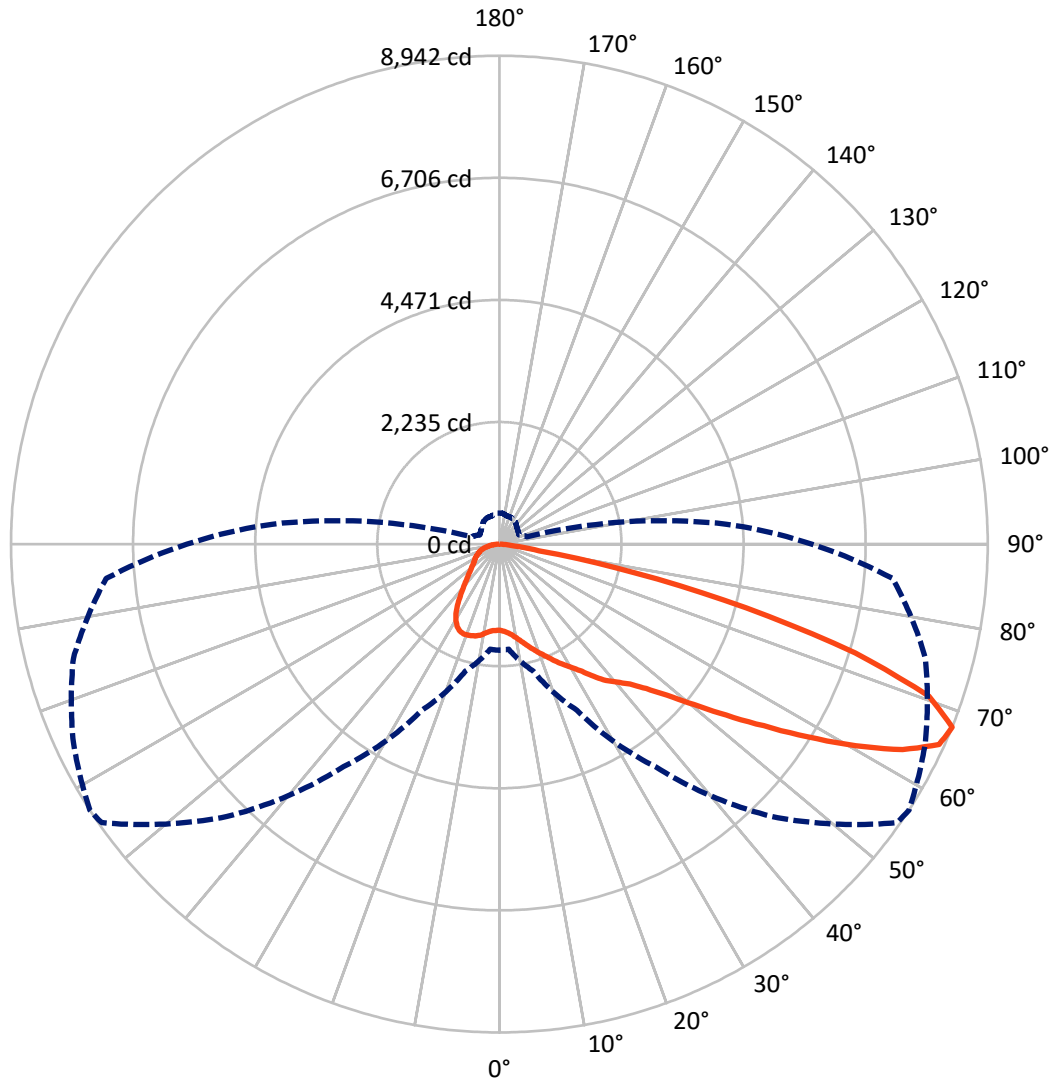
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2877.5	0.0	2877.5
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	10210.3	0.0	10210.3
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	13087.8	0.0	13087.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.4	1.2
10°-20°	517.8	4.0
20°-30°	923.1	7.1
30°-40°	1342.1	10.3
40°-50°	1942.4	14.8
50°-60°	3039.8	23.2
60°-70°	3546.2	27.1
70°-80°	1480.3	11.3
80°-90°	139.7	1.1
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°	13087.8	100.0
0°-180°	13087.8	100.0

**Coefficient of Utilization**



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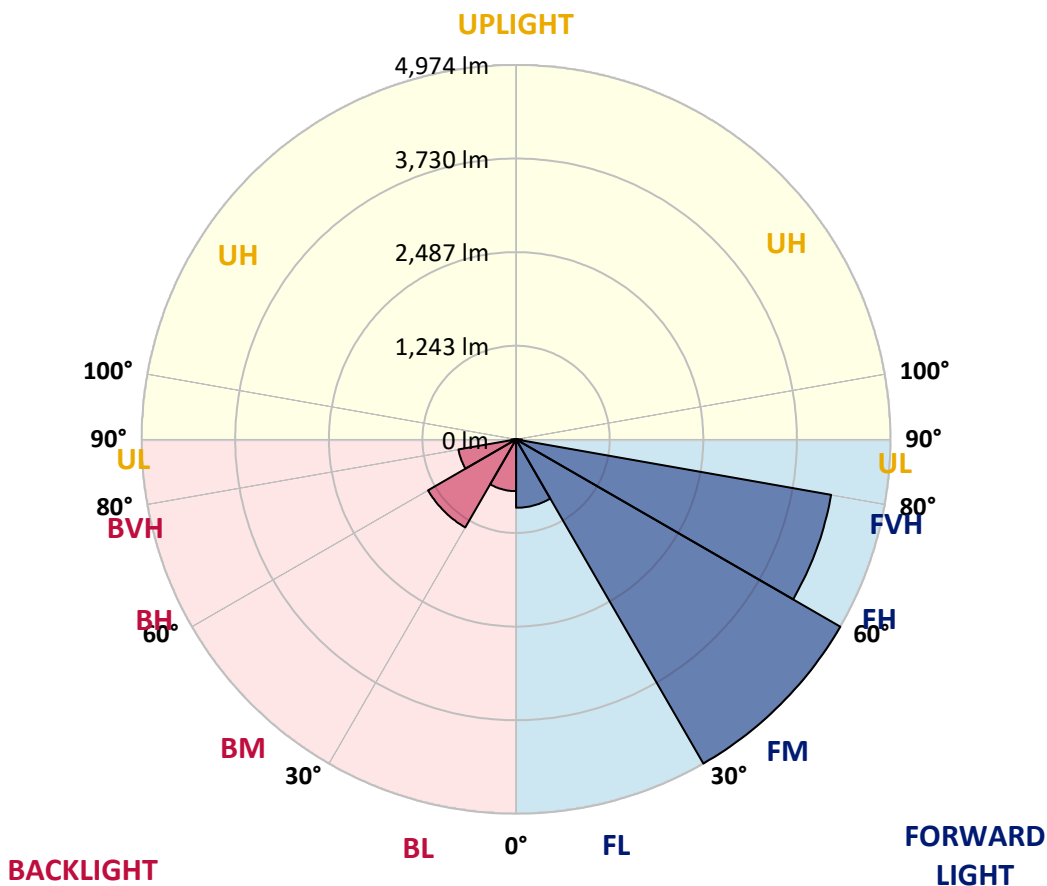
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	909.1	6.9			
FM (30°-60°)	4973.6	38.0			
FH (60°-80°)	4249.8	32.5			G2/5000
FVH (80°-90°)	77.8	0.6			G1/100
BL (0°-30°)	688.2	5.3	B2/1000		
BM (30°-60°)	1350.8	10.3	B2/2500		
BH (60°-80°)	776.6	5.9	B2/1000		G2/1000
BVH (80°-90°)	61.9	0.5			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1577.0	1577.0	1577.0	1577.0	1577.0	1577.0	1577.0	1577.0	1577.0	1577.0	1577.0
2.5°	1599.5	1597.6	1596.7	1602.3	1600.4	1599.5	1599.5	1598.6	1596.7	1589.2	1578.9
5°	1643.6	1639.8	1636.1	1640.7	1637.0	1633.2	1632.3	1630.4	1623.9	1612.6	1596.7
7.5°	1689.5	1685.7	1686.7	1689.5	1686.7	1684.8	1682.0	1680.1	1669.8	1652.0	1630.4
10°	1754.2	1754.2	1756.1	1758.9	1759.8	1757.0	1751.4	1748.6	1736.4	1713.9	1683.9
12.5°	1847.9	1846.1	1846.1	1844.2	1847.0	1844.2	1838.6	1833.9	1818.9	1789.8	1746.7
15°	1971.7	1964.2	1957.6	1945.5	1941.7	1931.4	1933.3	1930.5	1916.4	1877.0	1822.6
17.5°	2103.9	2103.0	2092.7	2068.3	2043.9	2027.0	2030.8	2029.8	2022.3	1968.9	1899.5
20°	2220.2	2224.9	2215.5	2196.7	2163.9	2132.0	2130.2	2134.8	2125.5	2072.0	1975.5
22.5°	2350.5	2346.7	2337.4	2313.0	2288.6	2254.9	2243.6	2239.9	2236.1	2175.2	2053.3
25°	2474.2	2485.5	2473.3	2450.8	2413.3	2376.7	2367.4	2371.1	2360.8	2280.2	2136.7
27.5°	2630.8	2635.5	2628.0	2597.1	2565.2	2513.6	2495.8	2495.8	2492.1	2378.6	2202.3
30°	2797.7	2810.8	2797.7	2772.4	2739.6	2665.5	2627.1	2623.3	2612.1	2479.9	2279.2
32.5°	2965.5	2974.9	2965.5	2941.2	2903.7	2839.0	2783.6	2775.2	2760.2	2590.5	2358.0
35°	3114.6	3123.0	3121.2	3126.8	3095.9	3014.3	2980.5	2976.8	2937.4	2734.9	2464.9
37.5°	3277.7	3288.1	3274.0	3285.2	3273.1	3196.2	3185.9	3167.1	3110.9	2870.8	2577.4
40°	3463.4	3472.8	3450.3	3454.9	3440.9	3397.7	3345.2	3319.9	3236.5	3018.0	2754.6
42.5°	3662.1	3683.7	3694.0	3685.6	3652.8	3628.4	3536.5	3504.6	3435.3	3283.4	3046.2
45°	3950.0	3981.9	3996.9	3975.3	3961.2	3926.5	3814.0	3775.6	3739.0	3657.5	3453.1
47.5°	4260.3	4289.4	4337.2	4346.6	4357.8	4331.6	4173.1	4135.6	4142.2	4132.8	3953.7
50°	4507.8	4532.2	4640.0	4755.3	4851.0	4858.5	4656.0	4615.7	4651.3	4681.3	4556.6
52.5°	4687.8	4709.4	4851.9	5090.1	5306.6	5467.0	5248.5	5202.6	5231.6	5299.1	5241.9
55°	4834.1	4864.1	5013.2	5378.8	5816.7	6069.8	5930.1	5872.0	5859.8	5943.2	5976.1
57.5°	4911.0	4920.4	5129.4	5604.8	6190.8	6661.4	6722.4	6656.7	6540.5	6586.4	6757.1
60°	4735.7	4751.6	5037.6	5662.9	6486.1	7248.3	7554.0	7499.6	7252.1	7277.4	7465.9
62.5°	4250.9	4273.4	4617.5	5386.3	6510.5	7640.2	8321.9	8287.2	7955.3	7818.4	7874.6
65°	3409.9	3417.4	3773.7	4701.9	6025.8	7689.0	8857.2	8848.8	8446.6	8125.9	7885.0
67.5°	1944.5	1931.4	2407.7	3353.7	4972.9	7055.2	8891.9	8941.6	8605.9	8075.3	7228.7
70°	842.9	844.7	1064.1	1654.8	3218.7	5702.3	8259.0	8344.4	8144.7	7232.4	5751.0
72.5°	390.0	395.7	490.3	716.3	1374.5	3537.4	6734.6	6811.4	6639.9	5788.6	4184.4
75°	275.6	280.3	327.2	410.7	631.9	1378.2	4505.0	4666.3	4749.7	4329.7	2757.4
77.5°	209.1	215.6	239.1	285.0	390.0	488.5	2155.5	2539.9	3025.5	2693.6	1420.4
80°	133.1	133.1	158.4	190.3	238.1	254.1	622.5	737.9	1480.4	1110.1	557.9
82.5°	90.0	92.8	107.8	120.9	136.9	144.4	267.2	285.0	427.5	377.8	229.7
85°	47.8	49.7	56.3	55.3	65.6	57.2	112.5	111.6	156.6	171.6	87.2
87.5°	0.0	0.0	0.9	0.9	1.9	2.8	12.2	13.1	32.8	52.5	29.1
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°	1577.0	1577.0	1577.0	1577.0	1577.0	1577.0	1577.0	1577.0	1577.0	1577.0	1577.0
2.5°	1584.5	1573.2	1578.9	1577.0	1582.6	1582.6	1572.3	1569.5	1570.4	1559.2	1555.4
5°	1598.6	1585.4	1588.2	1584.5	1590.1	1594.8	1590.1	1590.1	1595.7	1587.3	1582.6
7.5°	1630.4	1615.4	1615.4	1610.7	1617.3	1621.1	1617.3	1622.9	1633.2	1624.8	1620.1
10°	1681.1	1663.2	1664.2	1658.6	1661.4	1659.5	1644.5	1639.8	1642.6	1635.1	1631.4
12.5°	1746.7	1722.3	1722.3	1711.1	1704.5	1684.8	1653.9	1642.6	1644.5	1637.9	1635.1
15°	1809.5	1787.0	1782.3	1759.8	1729.8	1693.2	1665.1	1657.6	1659.5	1652.9	1648.2
17.5°	1883.6	1854.5	1837.6	1796.4	1741.1	1703.6	1675.4	1657.6	1642.6	1627.6	1623.9
20°	1952.0	1915.5	1884.5	1820.8	1753.3	1701.7	1649.2	1605.1	1568.6	1548.9	1544.2
22.5°	2022.3	1975.5	1921.1	1837.6	1752.3	1667.9	1571.4	1504.8	1450.4	1421.4	1427.0
25°	2088.9	2029.8	1955.8	1853.6	1722.3	1592.9	1461.7	1362.3	1300.4	1277.9	1271.3
27.5°	2144.2	2071.1	1987.6	1846.1	1660.4	1485.1	1311.7	1201.0	1141.0	1115.7	1109.1
30°	2206.1	2123.6	2033.6	1811.4	1562.9	1334.2	1142.0	1052.0	1008.8	984.4	985.4
32.5°	2277.4	2191.1	2098.3	1744.8	1438.2	1171.0	1002.3	940.4	905.7	881.3	877.6
35°	2373.0	2287.7	2141.4	1644.5	1279.8	1021.0	906.6	856.0	812.9	781.0	774.4
37.5°	2491.1	2433.0	2146.1	1510.4	1110.1	917.9	838.2	783.8	731.3	689.1	684.4
40°	2693.6	2627.1	2107.7	1342.6	965.7	851.3	781.0	718.2	657.2	610.4	603.8
42.5°	2982.4	2845.5	2025.1	1153.2	856.9	798.8	726.6	646.9	585.0	552.2	547.5
45°	3349.9	3089.3	1901.4	975.1	776.3	747.2	669.4	586.0	553.2	529.7	525.0
47.5°	3800.0	3373.4	1758.9	836.3	713.5	700.4	611.3	565.4	536.3	516.6	511.9
50°	4338.1	3735.3	1641.7	727.6	657.2	646.0	592.5	553.2	529.7	513.8	510.0
52.5°	4952.2	4137.5	1584.5	649.7	608.5	597.2	586.0	550.4	530.7	518.5	513.8
55°	5589.8	4561.3	1531.0	589.7	567.2	573.8	586.9	559.7	544.7	528.8	524.1
57.5°	6205.8	4958.8	1399.8	542.9	537.2	562.5	591.6	569.1	551.3	535.4	529.7
60°	6630.5	5176.3	1177.6	505.3	514.7	548.5	579.4	555.0	532.5	526.0	523.2
62.5°	6744.9	5150.1	914.1	466.9	487.5	517.5	547.5	531.6	508.2	518.5	519.4
65°	6477.7	4868.8	686.3	429.4	451.9	477.2	514.7	508.2	499.7	527.9	528.8
67.5°	5721.0	4177.8	523.2	396.6	415.3	446.3	504.4	531.6	533.5	569.1	565.4
70°	4328.8	3121.2	409.7	365.7	387.2	446.3	537.2	549.4	526.9	559.7	552.2
72.5°	2992.7	2059.8	348.8	338.5	352.5	425.7	536.3	536.3	511.9	511.9	497.8
75°	1859.2	1211.3	303.8	303.8	303.8	372.2	521.3	494.1	451.0	431.3	420.0
77.5°	917.9	588.8	255.0	264.4	254.1	311.3	425.7	404.1	377.8	357.2	349.7
80°	391.9	294.4	206.3	216.6	204.4	234.4	337.5	332.8	307.5	280.3	271.9
82.5°	180.0	151.9	165.0	169.7	149.1	176.3	246.6	246.6	232.5	195.0	181.0
85°	76.9	80.6	114.4	114.4	93.8	99.4	132.2	125.6	112.5	91.9	84.4
87.5°	26.3	39.4	58.1	50.6	19.7	8.4	4.7	1.9	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)