

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: P634044

Luminaire Tested: GWS-SA2F-830-U-T3-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P634044  
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-SA2F-830-U-T3-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

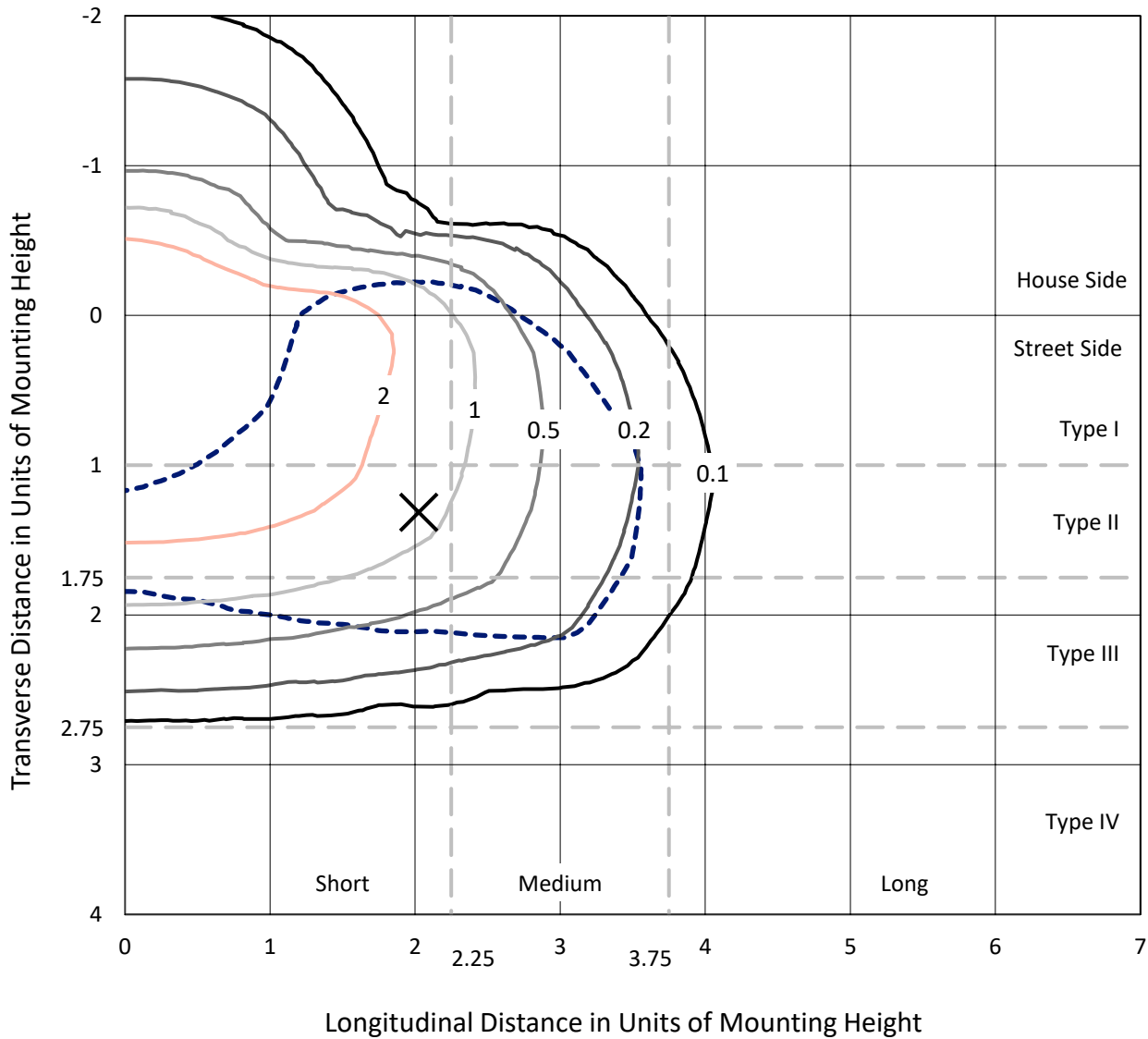
Lumens per Lamp: N/A  
Luminaire Lumens: 12895.8 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): 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

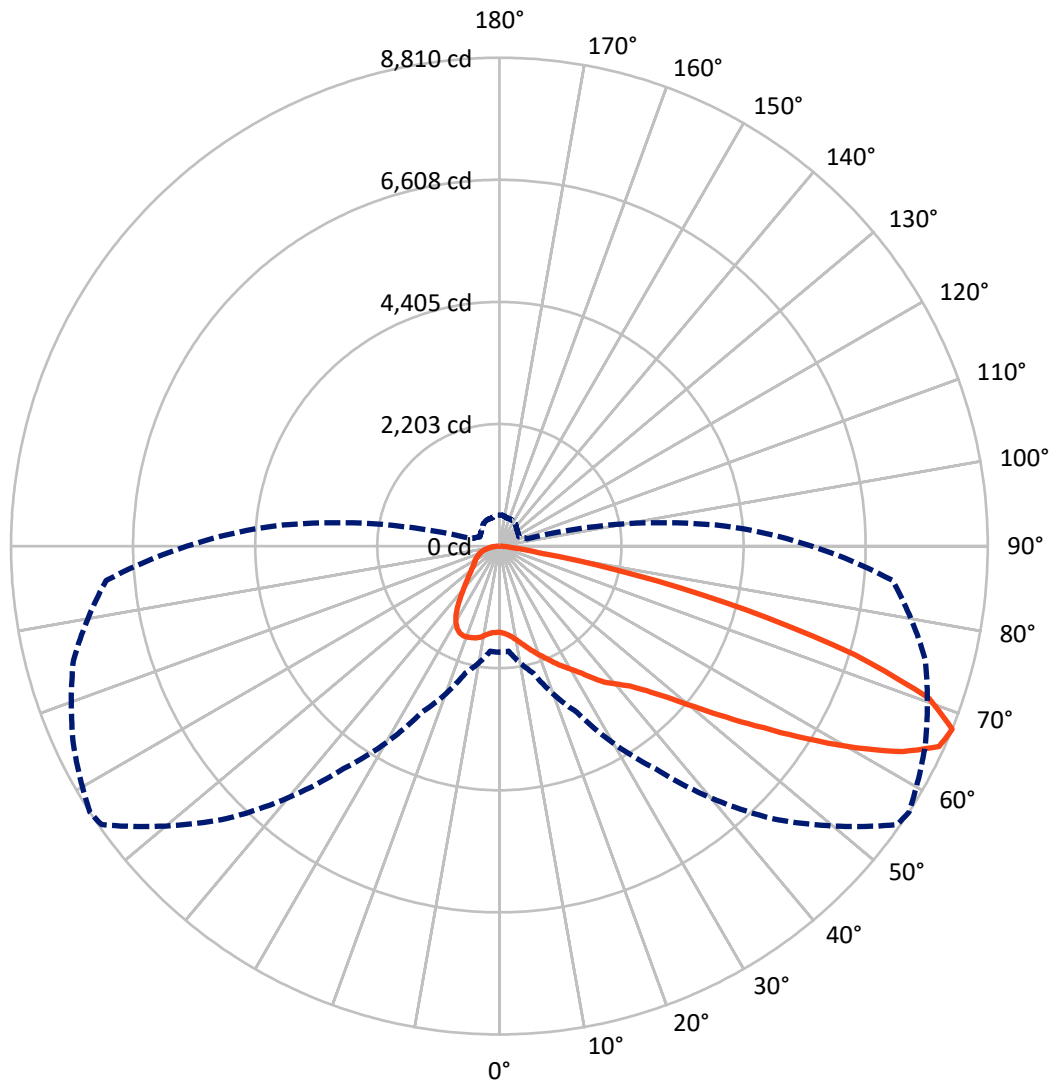
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 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	2835.3	0.0	2835.3
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	10060.5	0.0	10060.5
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	12895.8	0.0	12895.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.1	1.2
10°-20°	510.2	4.0
20°-30°	909.6	7.1
30°-40°	1322.4	10.3
40°-50°	1913.9	14.8
50°-60°	2995.2	23.2
60°-70°	3494.1	27.1
70°-80°	1458.6	11.3
80°-90°	137.6	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°	12895.8	100.0
0°-180°	12895.8	100.0

**Coefficient of Utilization**



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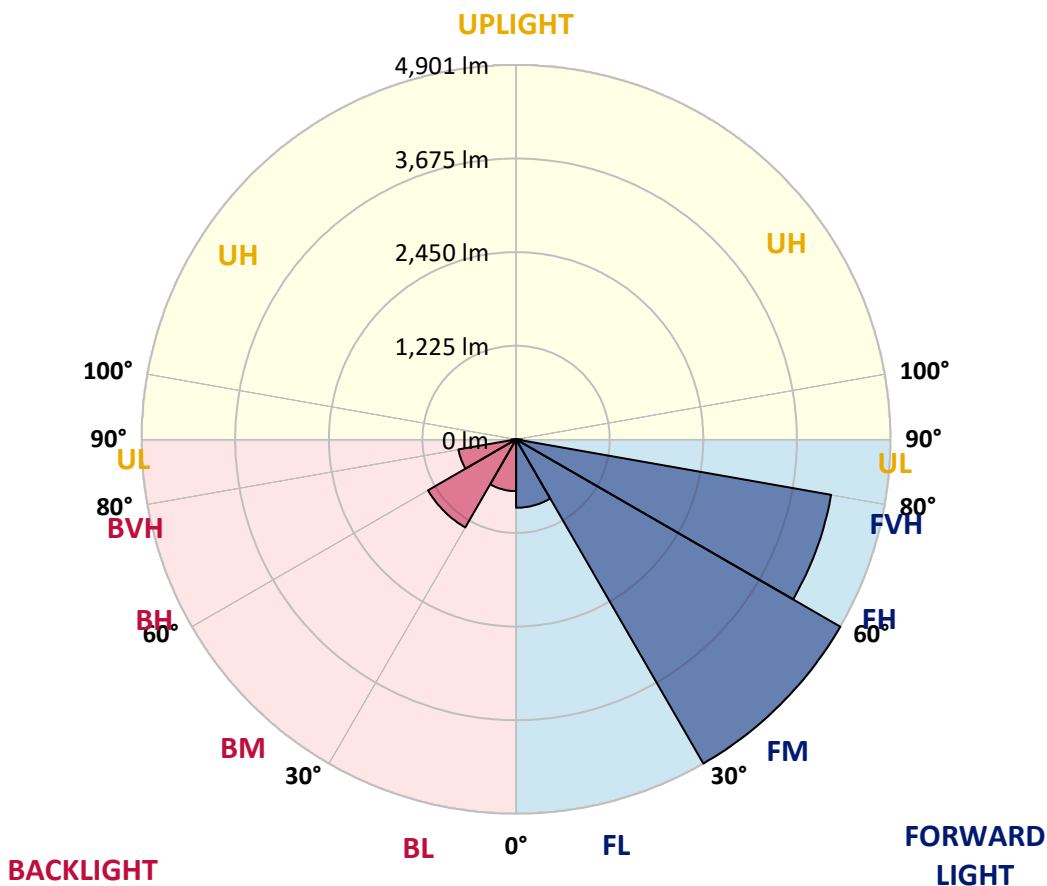
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	895.7	6.9			
FM (30°-60°)	4900.6	38.0			
FH (60°-80°)	4187.5	32.5			G2/5000
FVH (80°-90°)	76.7	0.6			G1/100
BL (0°-30°)	678.1	5.3	B2/1000		
BM (30°-60°)	1331.0	10.3	B2/2500		
BH (60°-80°)	765.3	5.9	B2/1000		G2/1000
BVH (80°-90°)	61.0	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°	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9
2.5°	1576.0	1574.2	1573.3	1578.8	1577.0	1576.0	1576.0	1575.1	1573.3	1565.9	1555.7
5°	1619.4	1615.8	1612.1	1616.7	1613.0	1609.3	1608.4	1606.5	1600.0	1589.0	1573.3
7.5°	1664.7	1661.0	1661.9	1664.7	1661.9	1660.1	1657.3	1655.5	1645.3	1627.8	1606.5
10°	1728.5	1728.5	1730.3	1733.1	1734.0	1731.2	1725.7	1722.9	1710.9	1688.7	1659.2
12.5°	1820.8	1819.0	1819.0	1817.1	1819.9	1817.1	1811.6	1807.0	1792.2	1763.6	1721.1
15°	1942.8	1935.4	1928.9	1916.9	1913.2	1903.1	1904.9	1902.1	1888.3	1849.5	1795.9
17.5°	2073.0	2072.1	2062.0	2037.9	2013.9	1997.3	2001.0	2000.1	1992.7	1940.0	1871.6
20°	2187.6	2192.2	2183.0	2164.5	2132.2	2100.8	2098.9	2103.5	2094.3	2041.6	1946.5
22.5°	2316.0	2312.3	2303.1	2279.1	2255.0	2221.8	2210.7	2207.0	2203.3	2143.2	2023.2
25°	2437.9	2449.0	2437.0	2414.9	2377.9	2341.9	2332.6	2336.3	2326.2	2246.7	2105.4
27.5°	2592.2	2596.8	2589.5	2559.0	2527.6	2476.7	2459.2	2459.2	2455.5	2343.7	2170.0
30°	2756.7	2769.6	2756.7	2731.7	2699.4	2626.4	2588.5	2584.8	2573.7	2443.5	2245.8
32.5°	2922.0	2931.3	2922.0	2898.0	2861.1	2797.3	2742.8	2734.5	2719.7	2552.5	2323.4
35°	3068.9	3077.2	3075.4	3080.9	3050.4	2970.1	2936.8	2933.1	2894.3	2694.8	2428.7
37.5°	3229.7	3239.8	3226.0	3237.0	3225.0	3149.3	3139.1	3120.6	3065.2	2828.7	2539.6
40°	3412.6	3421.8	3399.6	3404.3	3390.4	3347.9	3296.2	3271.2	3189.0	2973.8	2714.2
42.5°	3608.4	3629.7	3639.8	3631.5	3599.2	3575.2	3484.6	3453.2	3384.9	3235.2	3001.5
45°	3892.0	3923.4	3938.2	3917.0	3903.1	3868.9	3758.1	3720.2	3684.2	3603.8	3402.4
47.5°	4197.8	4226.5	4273.6	4282.8	4293.9	4268.0	4111.9	4074.9	4081.4	4072.2	3895.7
50°	4441.7	4465.7	4572.0	4685.6	4779.8	4787.2	4587.7	4547.9	4583.0	4612.6	4489.7
52.5°	4619.1	4640.3	4780.7	5015.4	5228.8	5386.8	5171.5	5126.2	5154.9	5221.4	5165.0
55°	4763.2	4792.7	4939.6	5299.9	5731.3	5980.8	5843.1	5785.9	5773.8	5856.1	5888.4
57.5°	4838.9	4848.2	5054.2	5522.6	6099.9	6563.7	6623.8	6559.1	6444.5	6489.8	6657.9
60°	4666.2	4681.9	4963.7	5579.8	6390.9	7142.0	7443.2	7389.6	7145.7	7170.6	7356.3
62.5°	4188.6	4210.7	4549.8	5307.3	6415.0	7528.2	8199.8	8165.6	7838.6	7703.7	7759.1
65°	3359.9	3367.3	3718.4	4632.9	5937.4	7576.2	8727.3	8719.0	8322.6	8006.7	7769.3
67.5°	1916.0	1903.1	2372.4	3304.5	4899.9	6951.7	8761.5	8810.4	8479.7	7956.8	7122.6
70°	830.5	832.4	1048.5	1630.5	3171.5	5618.6	8137.9	8221.9	8025.2	7126.3	5666.7
72.5°	384.3	389.8	483.2	705.8	1354.3	3485.6	6635.8	6711.5	6542.5	5703.6	4123.0
75°	271.6	276.2	322.4	404.6	622.7	1358.0	4438.9	4597.8	4680.0	4266.2	2716.9
77.5°	206.0	212.5	235.6	280.8	384.3	481.3	2123.8	2502.6	2981.1	2654.1	1399.6
80°	131.2	131.2	156.1	187.5	234.6	250.4	613.4	727.0	1458.7	1093.8	549.7
82.5°	88.7	91.5	106.2	119.2	134.9	142.3	263.3	280.8	421.3	372.3	226.3
85°	47.1	49.0	55.4	54.5	64.7	56.4	110.9	109.9	154.3	169.1	85.9
87.5°	0.0	0.0	0.9	0.9	1.8	2.8	12.0	12.9	32.3	51.7	28.6
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°	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9	1553.9
2.5°	1561.2	1550.2	1555.7	1553.9	1559.4	1559.4	1549.2	1546.5	1547.4	1536.3	1532.6
5°	1575.1	1562.2	1564.9	1561.2	1566.8	1571.4	1566.8	1566.8	1572.3	1564.0	1559.4
7.5°	1606.5	1591.7	1591.7	1587.1	1593.6	1597.3	1593.6	1599.1	1609.3	1601.0	1596.4
10°	1656.4	1638.8	1639.8	1634.2	1637.0	1635.2	1620.4	1615.8	1618.5	1611.1	1607.4
12.5°	1721.1	1697.0	1697.0	1686.0	1679.5	1660.1	1629.6	1618.5	1620.4	1613.9	1611.1
15°	1783.0	1760.8	1756.2	1734.0	1704.4	1668.4	1640.7	1633.3	1635.2	1628.7	1624.1
17.5°	1855.9	1827.3	1810.7	1770.0	1715.5	1678.6	1650.9	1633.3	1618.5	1603.7	1600.0
20°	1923.4	1887.4	1856.9	1794.0	1727.5	1676.7	1625.0	1581.6	1545.5	1526.1	1521.5
22.5°	1992.7	1946.5	1892.9	1810.7	1726.6	1643.5	1548.3	1482.7	1429.1	1400.5	1406.0
25°	2058.3	2000.1	1927.1	1826.4	1697.0	1569.6	1440.2	1342.3	1281.3	1259.2	1252.7
27.5°	2112.8	2040.7	1958.5	1819.0	1636.1	1463.3	1292.4	1183.4	1124.3	1099.3	1092.9
30°	2173.7	2092.4	2003.8	1784.8	1540.0	1314.6	1125.2	1036.5	994.0	970.0	970.9
32.5°	2243.9	2159.0	2067.5	1719.2	1417.1	1153.8	987.6	926.6	892.4	868.4	864.7
35°	2338.2	2254.1	2110.0	1620.4	1261.0	1006.0	893.3	843.4	800.9	769.5	763.1
37.5°	2454.6	2397.3	2114.6	1488.3	1093.8	904.4	825.9	772.3	720.6	679.0	674.4
40°	2654.1	2588.5	2076.7	1322.9	951.5	838.8	769.5	707.6	647.6	601.4	594.9
42.5°	2938.7	2803.8	1995.4	1136.3	844.4	787.1	716.0	637.4	576.5	544.1	539.5
45°	3300.8	3044.0	1873.5	960.8	764.9	736.3	659.6	577.4	545.1	522.0	517.3
47.5°	3744.2	3323.9	1733.1	824.0	703.0	690.1	602.3	557.1	528.4	509.0	504.4
50°	4274.5	3680.5	1617.6	716.9	647.6	636.5	583.9	545.1	522.0	506.3	502.6
52.5°	4879.6	4076.8	1561.2	640.2	599.6	588.5	577.4	542.3	522.9	510.9	506.3
55°	5507.8	4494.4	1508.6	581.1	558.9	565.4	578.3	551.5	536.7	521.0	516.4
57.5°	6114.7	4886.1	1379.3	534.9	529.3	554.3	582.9	560.8	543.2	527.5	522.0
60°	6533.2	5100.4	1160.3	497.9	507.2	540.4	570.9	546.9	524.7	518.3	515.5
62.5°	6645.9	5074.5	900.7	460.1	480.4	509.9	539.5	523.8	500.7	510.9	511.8
65°	6382.6	4797.4	676.2	423.1	445.3	470.2	507.2	500.7	492.4	520.1	521.0
67.5°	5637.1	4116.5	515.5	390.8	409.2	439.7	497.0	523.8	525.7	560.8	557.1
70°	4265.3	3075.4	403.7	360.3	381.5	439.7	529.3	541.4	519.2	551.5	544.1
72.5°	2948.8	2029.6	343.7	333.5	347.4	419.4	528.4	528.4	504.4	504.4	490.5
75°	1831.9	1193.6	299.3	299.3	299.3	366.8	513.6	486.9	444.4	425.0	413.9
77.5°	904.4	580.2	251.3	260.5	250.4	306.7	419.4	398.2	372.3	352.0	344.6
80°	386.2	290.1	203.2	213.4	201.4	231.0	332.6	328.0	303.0	276.2	267.9
82.5°	177.4	149.7	162.6	167.2	146.9	173.7	243.0	243.0	229.1	192.2	178.3
85°	75.8	79.4	112.7	112.7	92.4	97.9	130.3	123.8	110.9	90.5	83.1
87.5°	25.9	38.8	57.3	49.9	19.4	8.3	4.6	1.8	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)