

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: P633447

Luminaire Tested: GWS-SA2E-760-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633447  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2E-760-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

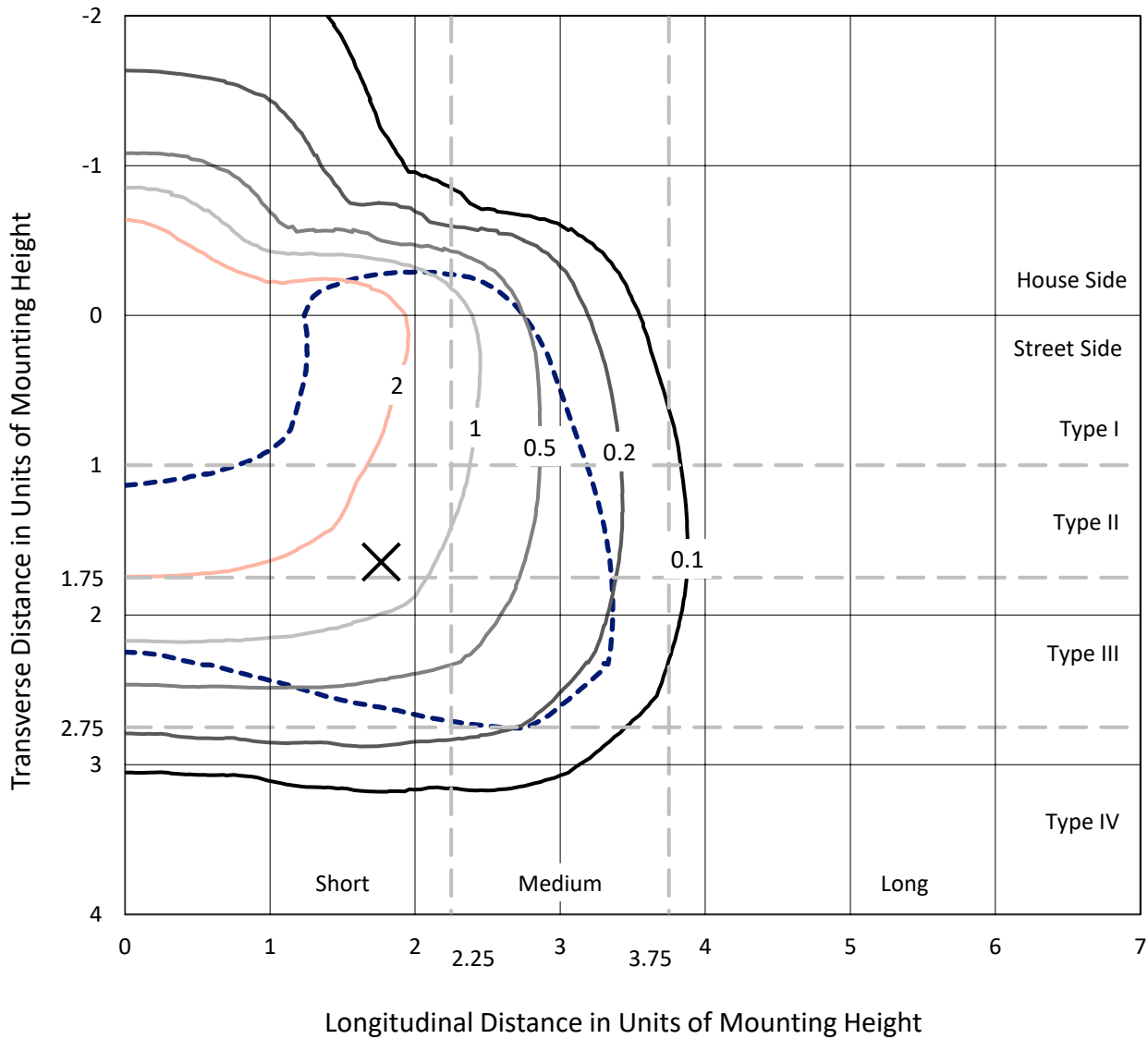
Lumens per Lamp: N/A  
Luminaire Lumens: 14594.7 lumens  
Efficiency: N/A  
Efficacy: 134.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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

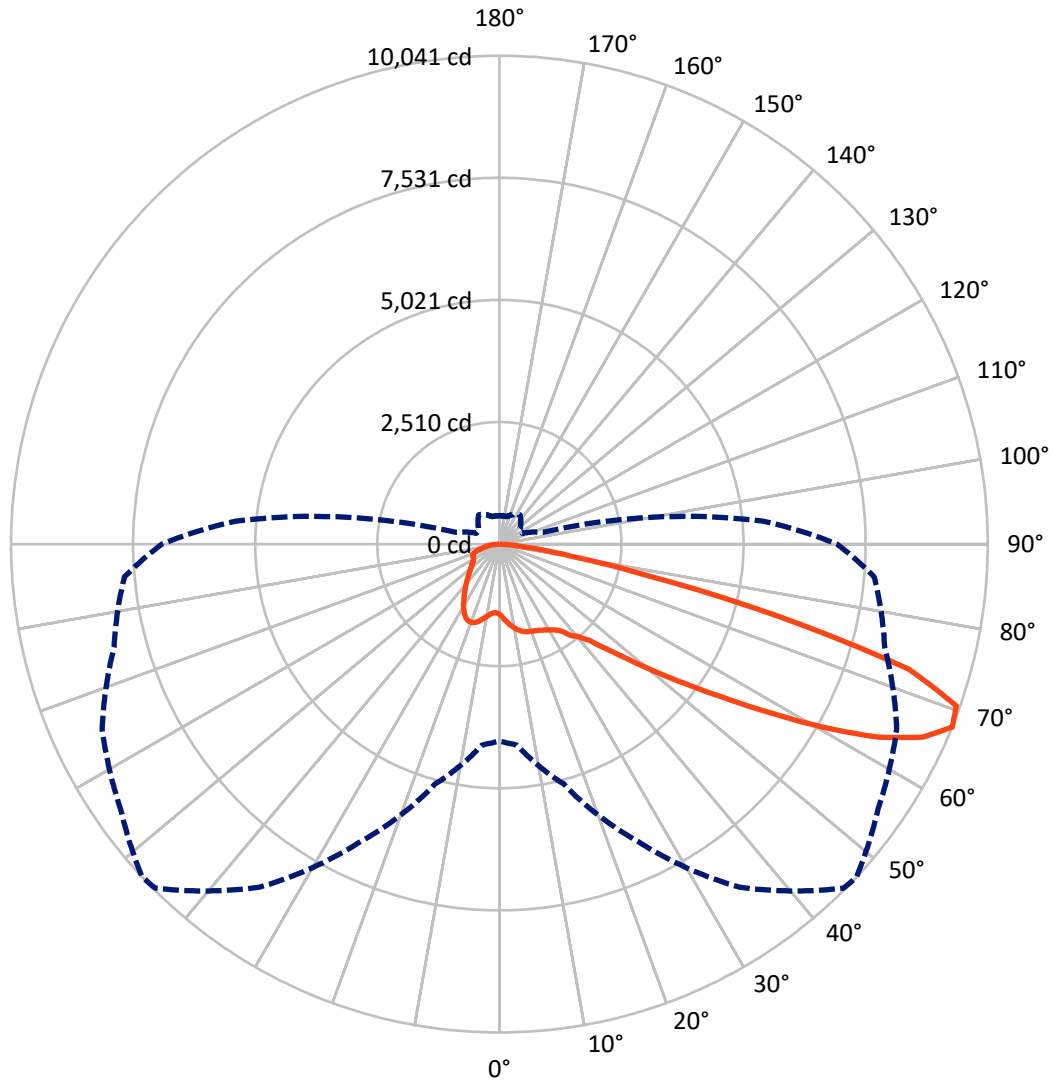
✕ Max cd  
 - - - 1/2 Max cd



Based on 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 47-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3326.3	0.0	3326.3
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	11268.5	0.0	11268.5
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	14594.7	0.0	14594.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.9	1.0
10°-20°	492.6	3.4
20°-30°	837.3	5.7
30°-40°	1226.6	8.4
40°-50°	1868.9	12.8
50°-60°	3343.9	22.9
60°-70°	4462.0	30.6
70°-80°	2017.8	13.8
80°-90°	197.7	1.4
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°	14594.7	100.0
0°-180°	14594.7	100.0

**Coefficient of Utilization**



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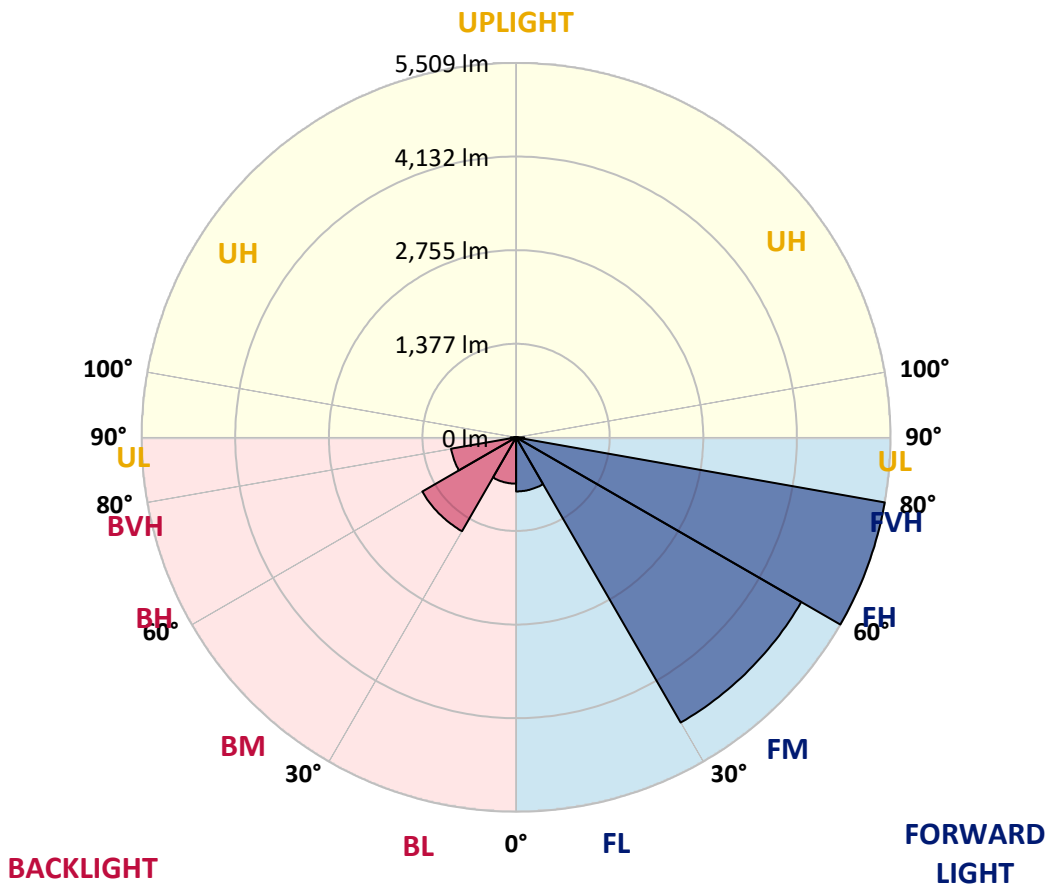
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	795.9	5.5			
FM (30°-60°)	4845.6	33.2			
FH (60°-80°)	5509.3	37.7			G3/7500
FVH (80°-90°)	117.6	0.8			G2/225
BL (0°-30°)	681.9	4.7	B2/1000		
BM (30°-60°)	1593.8	10.9	B2/2500		
BH (60°-80°)	970.5	6.6	B2/1000		G2/1000
BVH (80°-90°)	80.1	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8
2.5°	1542.8	1548.1	1547.0	1538.6	1533.3	1523.8	1524.9	1510.1	1488.0	1473.2	1456.3
5°	1679.0	1687.4	1676.8	1663.1	1642.0	1611.4	1608.3	1574.5	1532.3	1502.7	1472.1
7.5°	1797.2	1802.4	1789.8	1766.5	1735.9	1694.8	1687.4	1647.3	1594.5	1548.1	1503.8
10°	1889.0	1895.3	1878.4	1847.8	1807.7	1766.5	1761.3	1720.1	1664.2	1609.3	1553.4
12.5°	1967.1	1969.2	1951.2	1910.1	1866.8	1824.6	1819.3	1781.3	1729.6	1673.7	1612.5
15°	2012.4	2013.5	1991.3	1945.9	1904.8	1867.9	1864.7	1832.0	1784.5	1731.7	1666.3
17.5°	2009.3	2011.4	1995.5	1955.4	1919.6	1897.4	1894.2	1873.1	1836.2	1788.7	1723.3
20°	1970.2	1972.3	1961.8	1935.4	1916.4	1910.1	1911.1	1904.8	1882.6	1843.6	1777.1
22.5°	1939.6	1942.8	1933.3	1914.3	1912.2	1927.0	1930.1	1933.3	1922.7	1887.9	1823.5
25°	1954.4	1959.7	1944.9	1918.5	1922.7	1955.4	1961.8	1972.3	1963.9	1934.3	1878.4
27.5°	2056.8	2059.9	2021.9	1968.1	1955.4	1990.3	1999.8	2016.7	2010.3	1982.9	1939.6
30°	2294.2	2292.1	2210.8	2078.9	2026.1	2039.9	2047.3	2071.5	2073.6	2055.7	2014.5
32.5°	2628.7	2618.2	2492.6	2282.6	2129.6	2095.8	2104.2	2137.0	2161.2	2142.2	2086.3
35°	2982.2	2972.7	2834.5	2588.6	2320.6	2203.4	2193.9	2219.3	2256.2	2203.4	2123.2
37.5°	3318.9	3304.1	3162.7	2858.8	2555.9	2392.3	2378.6	2353.3	2331.1	2229.8	2168.6
40°	3692.4	3675.6	3552.1	3208.1	2815.5	2536.9	2502.1	2401.8	2381.8	2317.4	2286.8
42.5°	4091.3	4091.3	3989.0	3650.2	3128.9	2743.7	2698.4	2547.5	2568.6	2526.4	2490.5
45°	4490.2	4501.8	4420.6	4095.6	3547.9	3134.2	3061.4	2847.2	2897.8	2878.8	2860.9
47.5°	4830.0	4852.2	4836.4	4550.4	4060.7	3609.1	3498.3	3275.6	3384.3	3429.7	3480.3
50°	5196.2	5220.5	5204.7	5091.8	4661.2	4184.2	4085.0	3855.0	4041.7	4177.9	4343.6
52.5°	5739.7	5774.5	5642.6	5599.3	5390.4	4837.4	4748.8	4487.1	4825.8	5051.7	5421.0
55°	6198.7	6197.7	6151.3	6250.5	6173.4	5636.3	5538.1	5300.7	5733.4	5972.9	6513.2
57.5°	6411.9	6437.2	6596.6	6877.3	7031.4	6612.4	6518.5	6275.8	6707.4	6831.9	7415.5
60°	6521.7	6553.3	6861.5	7416.5	7831.3	7678.3	7641.3	7332.1	7574.8	7560.1	8176.4
62.5°	6367.6	6430.9	6925.8	7663.5	8402.2	8749.4	8737.8	8270.3	8312.5	8167.9	8648.1
65°	5660.6	5729.1	6505.8	7540.0	8728.3	9564.1	9567.2	9119.8	8879.2	8463.4	8568.9
67.5°	4048.1	4146.2	5106.5	6746.4	8613.2	10004.1	10041.0	9505.0	9012.1	8201.7	7737.4
70°	2206.6	2278.4	3030.8	4903.9	7577.0	9898.6	9967.2	9319.2	8425.4	7094.7	5956.0
72.5°	1002.5	1025.7	1409.9	2691.0	5176.2	8520.4	8807.4	8316.7	6919.5	5240.5	3787.4
75°	459.0	469.6	614.2	1287.4	2704.7	5701.7	5903.3	6194.5	4815.3	3309.4	1974.4
77.5°	288.1	291.3	349.3	588.8	1348.7	2846.1	3058.2	3688.2	2819.7	1637.8	825.2
80°	169.9	173.1	217.4	318.7	633.2	1302.2	1503.8	1458.4	1325.4	707.0	375.7
82.5°	85.5	88.6	125.6	181.5	345.1	518.1	610.0	613.1	493.9	383.1	212.1
85°	30.6	31.7	41.2	71.8	146.7	171.0	191.0	233.2	241.7	222.7	102.4
87.5°	0.0	0.0	1.1	2.1	4.2	16.9	17.9	33.8	70.7	79.1	41.2
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°	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8	1446.8
2.5°	1451.0	1435.2	1429.9	1424.6	1416.2	1413.0	1406.7	1400.4	1400.4	1394.0	1390.9
5°	1458.4	1437.3	1423.6	1417.2	1412.0	1415.1	1415.1	1417.2	1424.6	1420.4	1422.5
7.5°	1484.8	1460.5	1441.5	1436.2	1436.2	1448.9	1457.3	1467.9	1481.6	1483.7	1483.7
10°	1531.2	1502.7	1482.7	1479.5	1484.8	1502.7	1515.4	1528.1	1544.9	1546.0	1548.1
12.5°	1581.9	1553.4	1533.3	1537.6	1542.8	1566.0	1579.8	1590.3	1607.2	1607.2	1606.1
15°	1634.6	1603.0	1586.1	1594.5	1610.4	1636.7	1638.9	1639.9	1648.4	1646.2	1645.2
17.5°	1689.5	1655.7	1643.1	1655.7	1672.6	1685.3	1674.7	1660.0	1656.8	1652.6	1650.5
20°	1743.3	1708.5	1703.2	1712.7	1718.0	1707.5	1674.7	1647.3	1634.6	1628.3	1626.2
22.5°	1789.8	1760.2	1757.1	1757.1	1730.7	1693.7	1645.2	1608.3	1591.4	1582.9	1580.8
25°	1844.6	1817.2	1811.9	1783.4	1715.9	1648.4	1582.9	1549.2	1535.4	1531.2	1532.3
27.5°	1909.0	1890.0	1873.1	1791.9	1673.7	1568.2	1494.3	1479.5	1474.2	1479.5	1482.7
30°	1988.2	1969.2	1931.2	1781.3	1606.1	1463.7	1393.0	1391.9	1407.8	1421.5	1423.6
32.5°	2052.5	2044.1	1981.8	1747.6	1511.2	1348.7	1288.5	1292.7	1321.2	1340.2	1343.4
35°	2103.2	2116.9	2024.0	1691.6	1398.3	1240.0	1192.5	1194.6	1210.4	1236.8	1237.9
37.5°	2174.9	2221.4	2062.0	1606.1	1268.5	1146.0	1102.8	1086.9	1084.8	1092.2	1094.3
40°	2319.5	2389.2	2089.5	1481.6	1142.9	1061.6	1013.1	982.5	956.1	936.0	929.7
42.5°	2538.0	2618.2	2105.3	1330.7	1031.0	978.2	923.4	884.3	837.9	795.7	780.9
45°	2939.0	2965.4	2105.3	1170.3	931.8	900.2	845.3	798.9	739.8	690.2	679.6
47.5°	3580.6	3496.2	2107.4	1015.2	844.2	831.6	784.1	731.3	665.9	624.7	618.4
50°	4547.2	4250.7	2150.7	886.4	771.4	773.5	738.7	680.7	621.6	591.0	585.7
52.5°	5642.6	5180.4	2266.8	791.5	710.2	726.0	707.0	651.1	598.3	572.0	566.7
55°	6672.6	6035.2	2366.0	723.9	658.5	685.9	684.9	633.2	585.7	559.3	556.1
57.5°	7548.5	6620.9	2351.2	669.1	614.2	649.0	664.8	621.6	577.2	555.1	551.9
60°	8093.0	6931.1	2141.2	618.4	580.4	622.6	653.2	618.4	581.5	576.2	577.2
62.5°	8329.4	6874.1	1738.1	580.4	558.2	610.0	665.9	640.6	620.5	633.2	640.6
65°	7962.1	6384.5	1279.0	551.9	537.1	613.1	695.4	675.4	620.5	629.0	632.1
67.5°	6942.7	5434.7	924.4	523.4	510.8	622.6	737.6	670.1	584.6	584.6	578.3
70°	5003.1	3908.8	671.2	494.9	484.4	608.9	739.8	634.2	543.5	540.3	524.5
72.5°	3010.7	2305.8	523.4	463.3	444.3	540.3	693.3	592.0	503.4	477.0	458.0
75°	1563.9	1155.5	439.0	428.4	381.0	458.0	634.2	526.6	430.6	407.3	396.8
77.5°	670.1	540.3	376.7	382.0	316.6	385.2	511.8	455.9	382.0	352.5	343.0
80°	330.3	307.1	297.6	306.0	253.3	297.6	441.1	398.9	324.0	290.2	276.5
82.5°	188.9	179.4	214.2	217.4	180.5	249.0	372.5	337.7	268.0	231.1	208.9
85°	87.6	93.9	129.8	130.9	111.9	171.0	243.8	190.0	142.5	118.2	112.9
87.5°	34.8	41.2	57.0	55.9	32.7	31.7	21.1	11.6	9.5	8.4	7.4
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)