

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: P636747

Luminaire Tested: GWS-SA4B-735-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636747  
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-SA4B-735-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

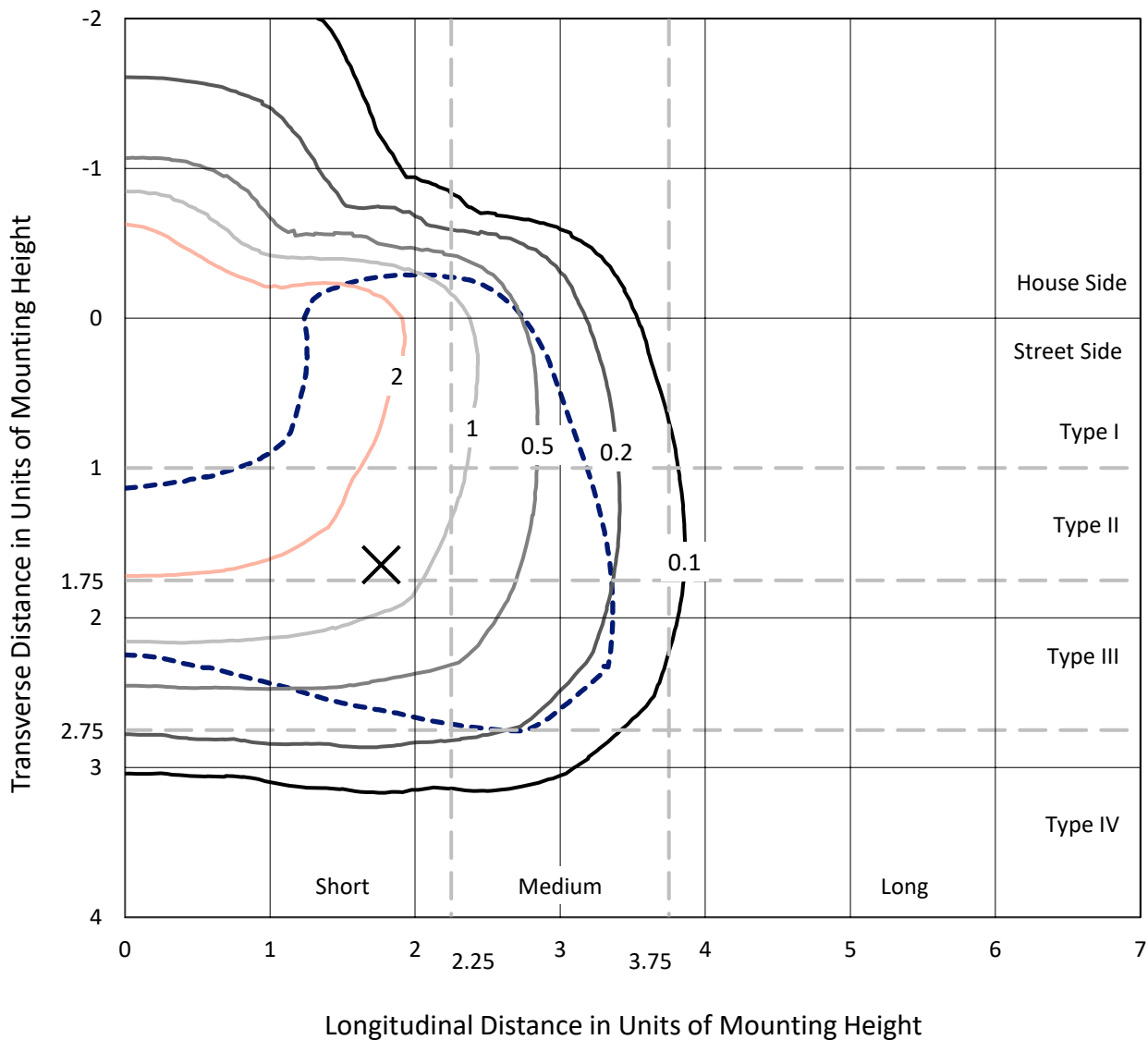
Lumens per Lamp: N/A  
Luminaire Lumens: 14153.6 lumens  
Efficiency: N/A  
Efficacy: 149.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

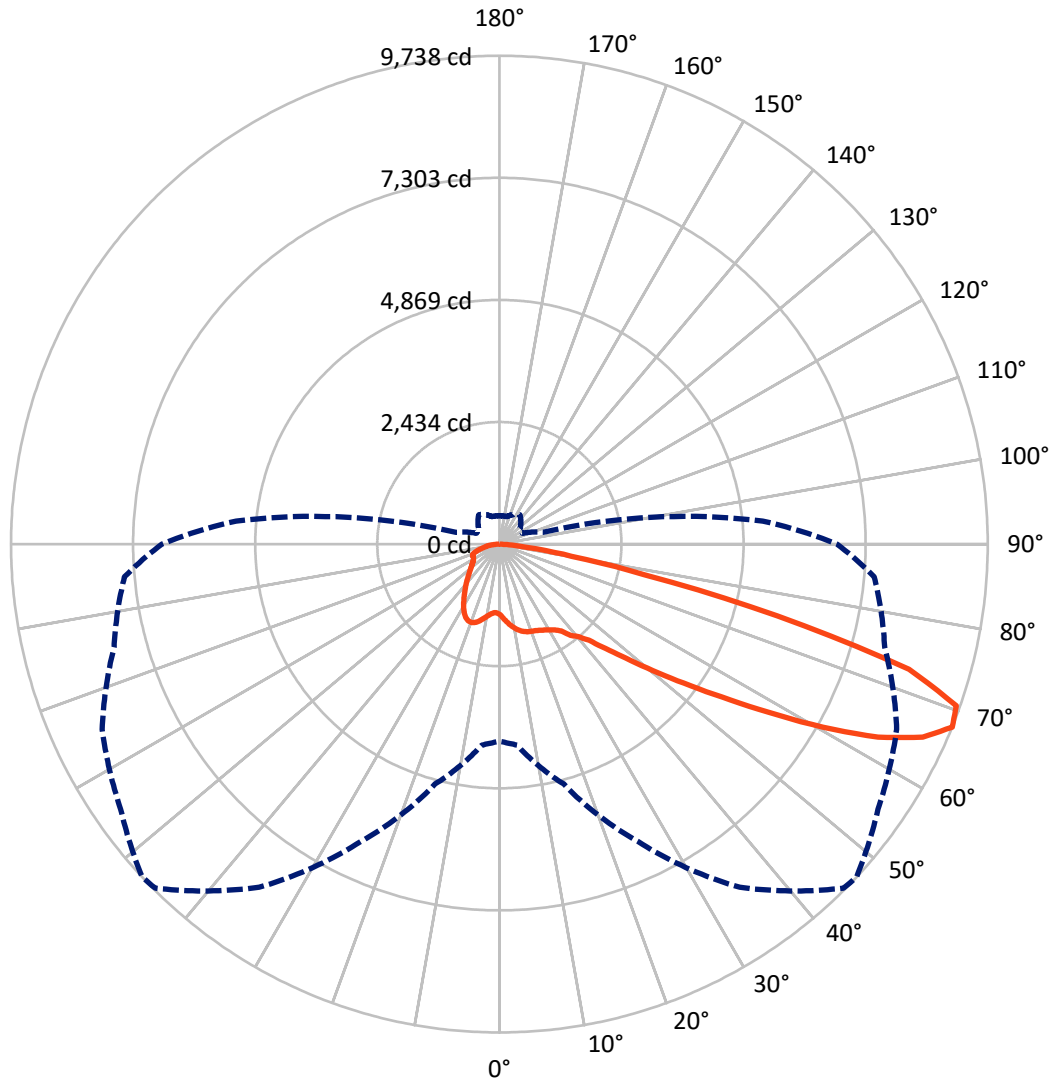
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 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	3225.7	0.0	3225.7
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	10927.9	0.0	10927.9
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	14153.6	0.0	14153.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.4	1.0
10°-20°	477.7	3.4
20°-30°	812.0	5.7
30°-40°	1189.5	8.4
40°-50°	1812.4	12.8
50°-60°	3242.8	22.9
60°-70°	4327.2	30.6
70°-80°	1956.8	13.8
80°-90°	191.7	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°	14153.6	100.0
0°-180°	14153.6	100.0

**Coefficient of Utilization**



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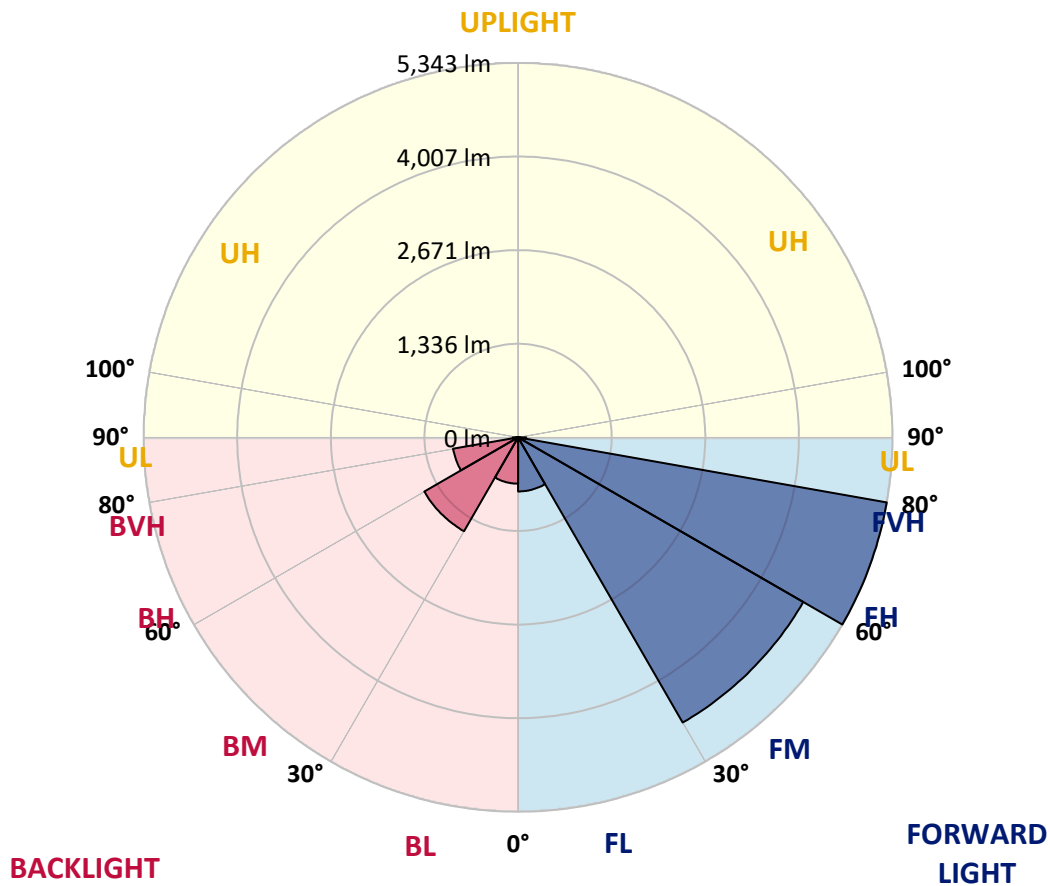
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	771.9	5.5			
FM (30°-60°)	4699.1	33.2			
FH (60°-80°)	5342.8	37.7			G3/7500
FVH (80°-90°)	114.0	0.8			G2/225
BL (0°-30°)	661.3	4.7	B2/1000		
BM (30°-60°)	1545.6	10.9	B2/2500		
BH (60°-80°)	941.2	6.6	B2/1000		G2/1000
BVH (80°-90°)	77.7	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°	1403.1	1403.1	1403.1	1403.1	1403.1	1403.1	1403.1	1403.1	1403.1	1403.1	1403.1
2.5°	1496.2	1501.3	1500.3	1492.1	1487.0	1477.8	1478.8	1464.5	1443.0	1428.7	1412.3
5°	1628.2	1636.4	1626.2	1612.9	1592.4	1562.7	1559.6	1526.9	1486.0	1457.3	1427.6
7.5°	1742.8	1748.0	1735.7	1713.2	1683.5	1643.6	1636.4	1597.5	1546.3	1501.3	1458.3
10°	1831.9	1838.0	1821.6	1792.0	1753.1	1713.2	1708.0	1668.1	1613.9	1560.7	1506.4
12.5°	1907.6	1909.6	1892.3	1852.3	1810.4	1769.4	1764.3	1727.5	1677.3	1623.1	1563.7
15°	1951.6	1952.6	1931.1	1887.1	1847.2	1811.4	1808.3	1776.6	1730.6	1679.4	1615.9
17.5°	1948.5	1950.6	1935.2	1896.3	1861.5	1840.1	1837.0	1816.5	1780.7	1734.6	1671.2
20°	1910.7	1912.7	1902.5	1876.9	1858.5	1852.3	1853.4	1847.2	1825.7	1787.9	1723.4
22.5°	1881.0	1884.1	1874.9	1856.4	1854.4	1868.7	1871.8	1874.9	1864.6	1830.8	1768.4
25°	1895.3	1900.4	1886.1	1860.5	1864.6	1896.3	1902.5	1912.7	1904.5	1875.9	1821.6
27.5°	1994.6	1997.7	1960.8	1908.6	1896.3	1930.1	1939.3	1955.7	1949.6	1923.0	1881.0
30°	2224.9	2222.8	2144.0	2016.1	1964.9	1978.2	1985.4	2008.9	2011.0	1993.6	1953.7
32.5°	2549.3	2539.0	2417.3	2213.6	2065.2	2032.5	2040.6	2072.4	2095.9	2077.5	2023.2
35°	2892.1	2882.9	2748.8	2510.4	2250.4	2136.8	2127.6	2152.2	2188.0	2136.8	2059.1
37.5°	3218.6	3204.2	3067.1	2772.4	2478.7	2320.0	2306.7	2282.2	2260.7	2162.4	2103.1
40°	3580.8	3564.5	3444.7	3111.1	2730.4	2460.2	2426.5	2329.2	2309.8	2247.4	2217.7
42.5°	3967.7	3967.7	3868.4	3539.9	3034.4	2660.8	2616.8	2470.5	2490.9	2450.0	2415.2
45°	4354.5	4365.8	4287.0	3971.8	3440.6	3039.5	2968.9	2761.1	2810.2	2791.8	2774.4
47.5°	4684.1	4705.6	4690.2	4412.9	3938.0	3500.0	3392.5	3176.6	3282.0	3326.0	3375.1
50°	5039.2	5062.7	5047.4	4937.9	4520.3	4057.7	3961.5	3738.4	3919.6	4051.6	4212.3
52.5°	5566.2	5600.0	5472.1	5430.1	5227.5	4691.2	4605.3	4351.5	4680.0	4899.0	5257.2
55°	6011.4	6010.4	5965.3	6061.5	5986.8	5465.9	5370.8	5140.5	5560.1	5792.4	6316.4
57.5°	6218.1	6242.7	6397.2	6669.4	6818.9	6412.6	6321.5	6086.1	6504.7	6625.4	7191.4
60°	6324.6	6355.3	6654.1	7192.4	7594.6	7446.2	7410.4	7110.5	7345.9	7331.6	7929.2
62.5°	6175.1	6236.5	6716.5	7431.9	8148.2	8484.9	8473.7	8020.3	8061.3	7921.0	8386.7
65°	5489.5	5556.0	6309.2	7312.1	8464.5	9275.0	9278.1	8844.1	8610.8	8207.6	8309.9
67.5°	3925.7	4020.9	4952.2	6542.5	8352.9	9701.8	9737.6	9217.7	8739.8	7953.8	7503.5
70°	2139.9	2209.5	2939.2	4755.7	7348.0	9599.4	9665.9	9037.6	8170.8	6880.3	5776.0
72.5°	972.2	994.7	1367.3	2609.6	5019.7	8262.9	8541.2	8065.3	6710.4	5082.2	3673.0
75°	445.2	455.4	595.6	1248.5	2623.0	5529.4	5724.9	6007.3	4669.7	3209.4	1914.8
77.5°	279.4	282.5	338.7	571.1	1307.9	2760.1	2965.8	3576.8	2734.5	1588.3	800.3
80°	164.8	167.8	210.8	309.1	614.0	1262.9	1458.3	1414.3	1285.4	685.7	364.3
82.5°	82.9	86.0	121.8	176.0	334.6	502.5	591.5	594.6	478.9	371.5	205.7
85°	29.7	30.7	39.9	69.6	142.3	165.8	185.2	226.2	234.4	215.9	99.3
87.5°	0.0	0.0	1.0	2.0	4.1	16.4	17.4	32.7	68.6	76.8	39.9
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°	1403.1	1403.1	1403.1	1403.1	1403.1	1403.1	1403.1	1403.1	1403.1	1403.1	1403.1
2.5°	1407.2	1391.8	1386.7	1381.6	1373.4	1370.3	1364.2	1358.0	1358.0	1351.9	1348.8
5°	1414.3	1393.9	1380.6	1374.4	1369.3	1372.4	1372.4	1374.4	1381.6	1377.5	1379.5
7.5°	1439.9	1416.4	1398.0	1392.8	1392.8	1405.1	1413.3	1423.5	1436.8	1438.9	1438.9
10°	1484.9	1457.3	1437.9	1434.8	1439.9	1457.3	1469.6	1481.9	1498.2	1499.3	1501.3
12.5°	1534.1	1506.4	1487.0	1491.1	1496.2	1518.7	1532.0	1542.3	1558.6	1558.6	1557.6
15°	1585.2	1554.5	1538.2	1546.3	1561.7	1587.3	1589.3	1590.4	1598.5	1596.5	1595.5
17.5°	1638.4	1605.7	1593.4	1605.7	1622.1	1634.4	1624.1	1609.8	1606.7	1602.6	1600.6
20°	1690.6	1656.9	1651.8	1661.0	1666.1	1655.8	1624.1	1597.5	1585.2	1579.1	1577.0
22.5°	1735.7	1707.0	1703.9	1703.9	1678.4	1642.5	1595.5	1559.6	1543.3	1535.1	1533.0
25°	1788.9	1762.3	1757.2	1729.5	1664.0	1598.5	1535.1	1502.3	1489.0	1484.9	1486.0
27.5°	1851.3	1832.9	1816.5	1737.7	1623.1	1520.8	1449.1	1434.8	1429.7	1434.8	1437.9
30°	1928.1	1909.6	1872.8	1727.5	1557.6	1419.4	1350.9	1349.9	1365.2	1378.5	1380.6
32.5°	1990.5	1982.3	1921.9	1694.7	1465.5	1307.9	1249.6	1253.7	1281.3	1299.7	1302.8
35°	2039.6	2052.9	1962.9	1640.5	1356.0	1202.5	1156.4	1158.5	1173.8	1199.4	1200.4
37.5°	2109.2	2154.2	1999.7	1557.6	1230.1	1111.4	1069.4	1054.1	1052.0	1059.2	1061.3
40°	2249.4	2317.0	2026.3	1436.8	1108.3	1029.5	982.5	952.8	927.2	907.7	901.6
42.5°	2461.3	2539.0	2041.7	1290.5	999.9	948.7	895.5	857.6	812.6	771.6	757.3
45°	2850.1	2875.7	2041.7	1134.9	903.7	873.0	819.7	774.7	717.4	669.3	659.1
47.5°	3472.4	3390.5	2043.7	984.5	818.7	806.4	760.4	709.2	645.8	605.8	599.7
50°	4409.8	4122.2	2085.7	859.6	748.1	750.1	716.4	660.1	602.8	573.1	568.0
52.5°	5472.1	5023.8	2198.2	767.5	688.7	704.1	685.7	631.4	580.3	554.7	549.6
55°	6470.9	5852.8	2294.4	702.0	638.6	665.2	664.2	614.0	568.0	542.4	539.3
57.5°	7320.3	6420.8	2280.1	648.8	595.6	629.4	644.7	602.8	559.8	538.3	535.2
60°	7848.4	6721.6	2076.5	599.7	562.9	603.8	633.5	599.7	563.9	558.8	559.8
62.5°	8077.6	6666.4	1685.5	562.9	541.4	591.5	645.8	621.2	601.8	614.0	621.2
65°	7721.5	6191.5	1240.4	535.2	520.9	594.6	674.4	655.0	601.8	609.9	613.0
67.5°	6732.9	5270.5	896.5	507.6	495.3	603.8	715.4	649.9	567.0	567.0	560.8
70°	4851.9	3790.6	650.9	480.0	469.7	590.5	717.4	615.1	527.0	524.0	508.6
72.5°	2919.7	2236.1	507.6	449.3	430.8	524.0	672.4	574.1	488.2	462.6	444.2
75°	1516.7	1120.6	425.7	415.5	369.4	444.2	615.1	510.7	417.5	395.0	384.8
77.5°	649.9	524.0	365.4	370.5	307.0	373.5	496.3	442.1	370.5	341.8	332.6
80°	320.3	297.8	288.6	296.8	245.6	288.6	427.8	386.8	314.2	281.4	268.1
82.5°	183.2	174.0	207.7	210.8	175.0	241.5	361.3	327.5	259.9	224.1	202.6
85°	84.9	91.1	125.9	126.9	108.5	165.8	236.4	184.2	138.2	114.6	109.5
87.5°	33.8	39.9	55.3	54.2	31.7	30.7	20.5	11.3	9.2	8.2	7.2
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)