

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: P633113

Luminaire Tested: GWS-SA2E-722-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633113  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2E-722-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

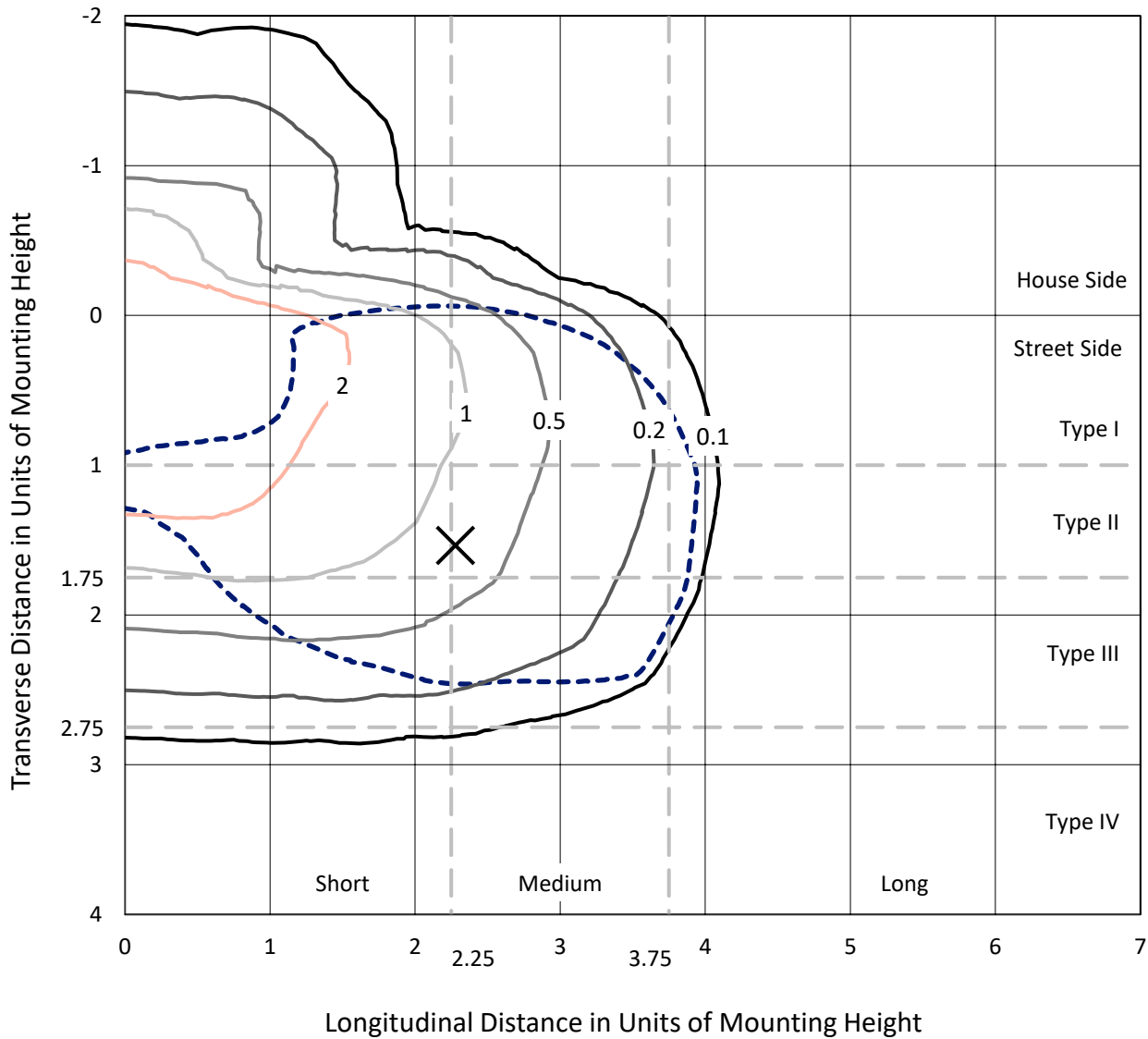
Lumens per Lamp: N/A  
Luminaire Lumens: 10926.1 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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

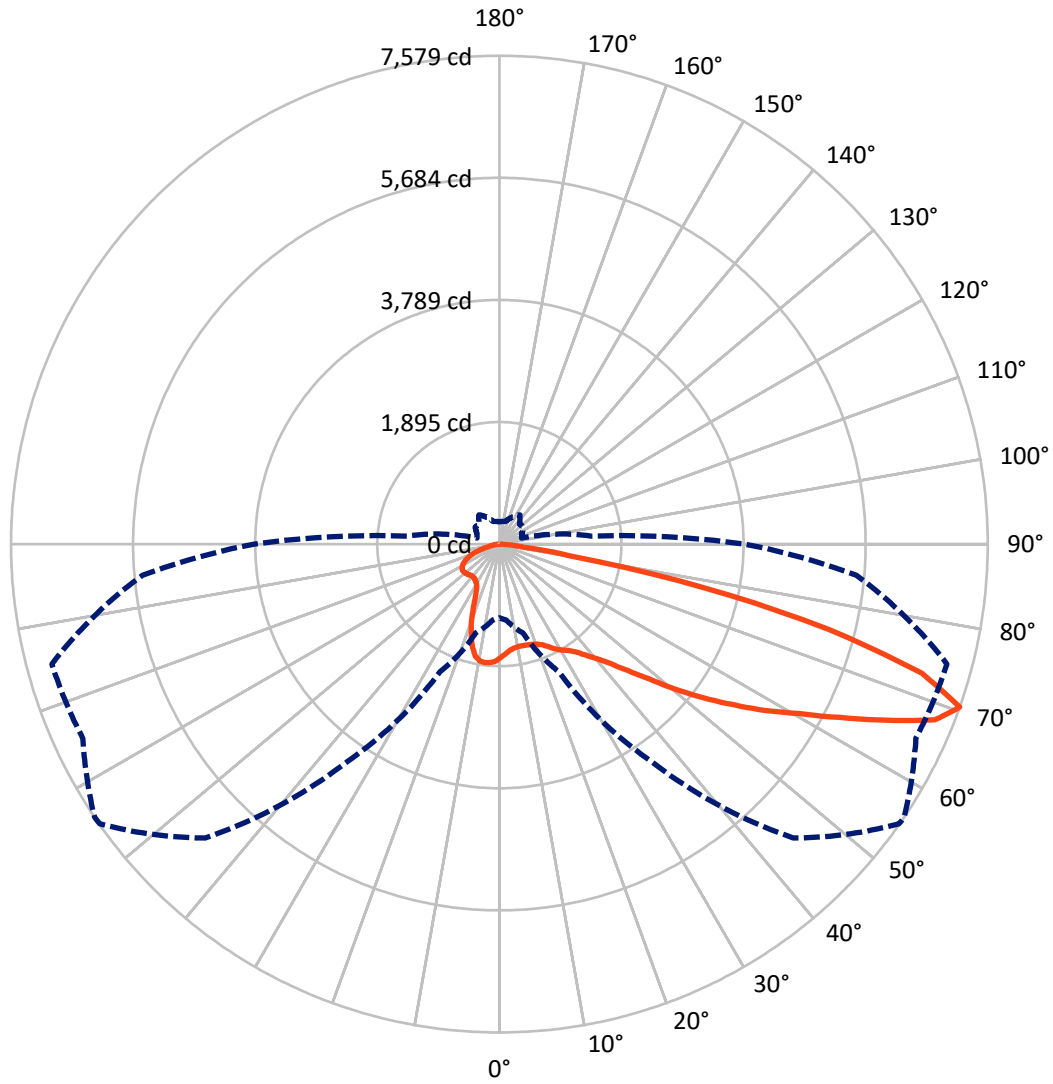
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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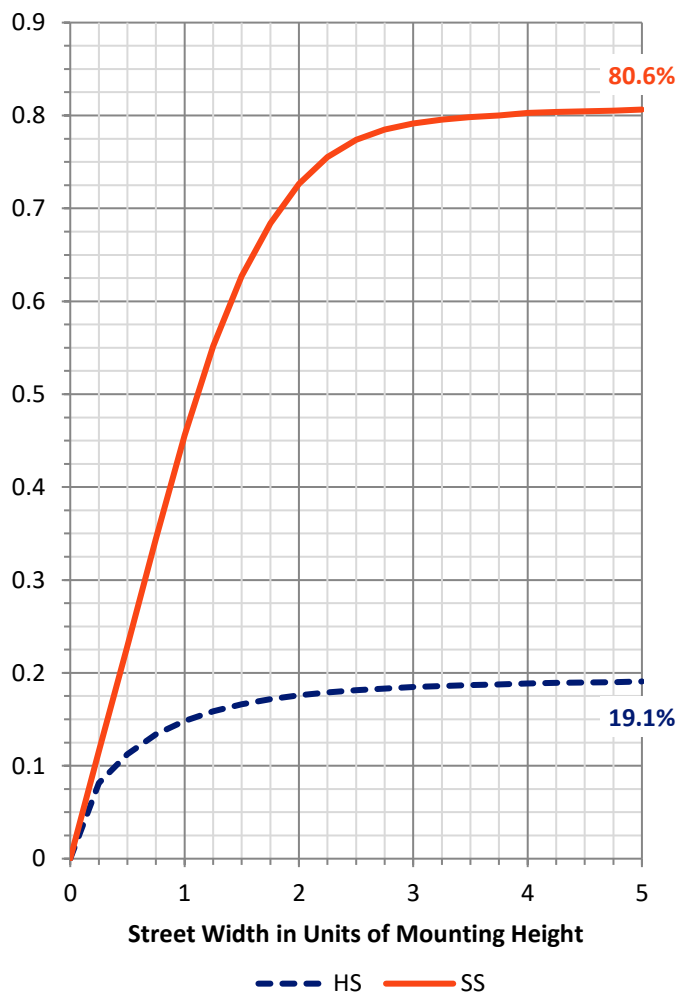
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2100.6	0.0	2100.6
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	8825.5	0.0	8825.5
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	10926.1	0.0	10926.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.2	1.5
10°-20°	442.2	4.0
20°-30°	731.1	6.7
30°-40°	1093.1	10.0
40°-50°	1626.7	14.9
50°-60°	2312.6	21.2
60°-70°	2864.3	26.2
70°-80°	1581.6	14.5
80°-90°	111.4	1.0
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°	10926.1	100.0
0°-180°	10926.1	100.0

**Coefficient of Utilization**



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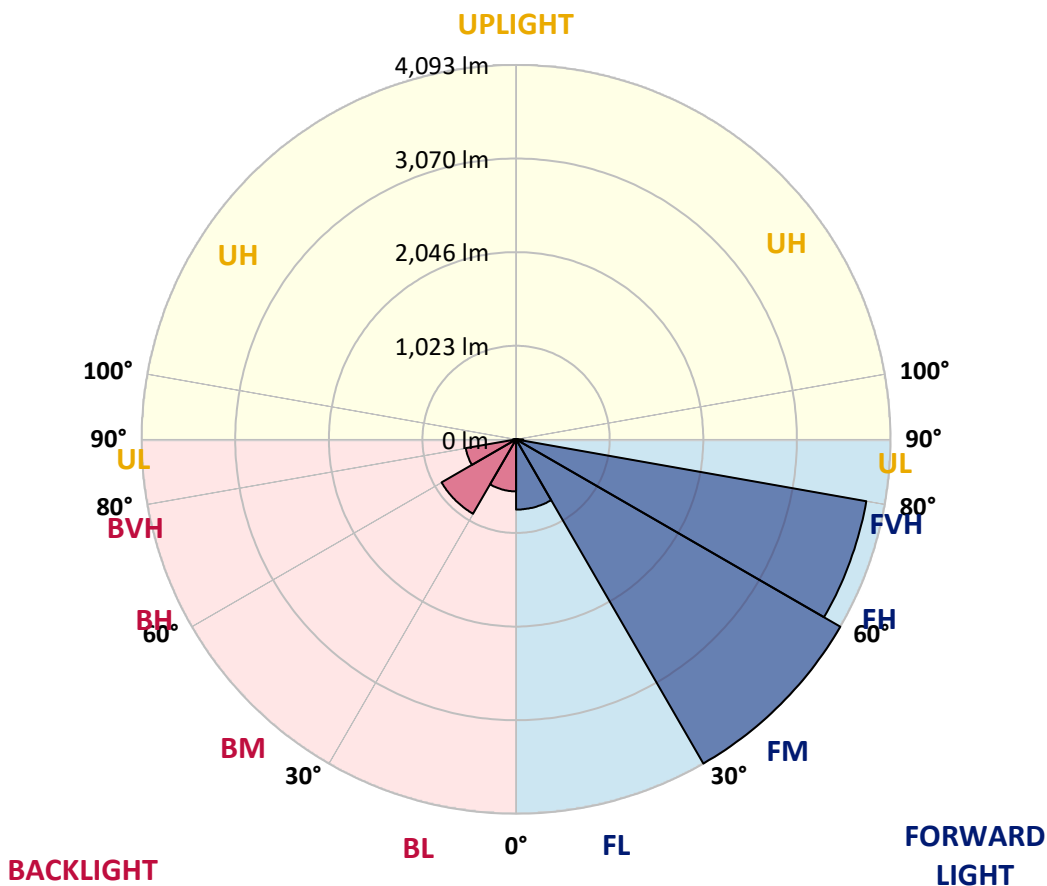
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	767.9	7.0			
FM (30°-60°)	4092.8	37.5			
FH (60°-80°)	3887.5	35.6			G2/5000
FVH (80°-90°)	77.4	0.7			G1/100
BL (0°-30°)	568.6	5.2	B2/1000		
BM (30°-60°)	939.6	8.6	B1/1000		
BH (60°-80°)	558.3	5.1	B2/1000		G2/1000
BVH (80°-90°)	34.0	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1763.6	1763.6	1763.6	1763.6	1763.6	1763.6	1763.6	1763.6	1763.6	1763.6	1763.6
2.5°	1650.4	1641.1	1651.9	1657.3	1671.2	1691.2	1708.9	1709.7	1719.0	1741.3	1762.9
5°	1575.6	1571.0	1574.1	1590.3	1604.9	1630.3	1657.3	1659.6	1685.8	1729.7	1772.9
7.5°	1517.9	1511.7	1523.2	1544.1	1562.5	1591.1	1626.5	1629.6	1666.6	1732.8	1799.1
10°	1434.6	1430.0	1451.6	1479.3	1519.4	1566.4	1613.4	1617.2	1665.8	1752.9	1845.3
12.5°	1398.4	1398.4	1407.7	1433.9	1477.8	1540.2	1611.1	1617.2	1678.1	1783.7	1904.6
15°	1454.7	1458.5	1450.8	1449.3	1467.0	1526.3	1614.2	1623.4	1701.2	1815.3	1963.2
17.5°	1567.9	1571.8	1551.8	1520.2	1502.4	1539.4	1625.7	1635.7	1725.9	1849.9	2026.4
20°	1726.7	1731.3	1687.4	1638.8	1578.0	1577.2	1648.1	1657.3	1757.5	1887.7	2093.4
22.5°	1912.3	1915.4	1860.0	1782.9	1689.7	1647.3	1686.6	1695.8	1798.3	1940.1	2165.8
25°	2127.3	2136.6	2069.5	1957.8	1831.4	1743.6	1750.5	1761.3	1871.5	2010.2	2251.4
27.5°	2356.9	2368.5	2291.4	2168.1	1994.0	1849.9	1833.0	1842.2	1949.3	2053.3	2296.8
30°	2591.9	2600.4	2523.3	2382.3	2168.9	1970.1	1902.3	1907.7	1983.2	2074.1	2343.0
32.5°	2853.1	2846.2	2772.2	2609.6	2370.8	2114.2	1967.0	1965.5	2021.0	2115.8	2409.3
35°	3098.1	3108.1	3029.5	2850.0	2592.7	2292.2	2064.1	2058.0	2101.1	2183.6	2502.5
37.5°	3394.8	3391.7	3297.7	3103.5	2815.4	2462.5	2200.5	2189.7	2205.1	2289.1	2632.7
40°	3606.6	3628.2	3567.3	3386.3	3075.8	2672.0	2360.0	2336.1	2340.0	2419.3	2806.9
42.5°	3780.0	3800.0	3806.2	3690.6	3374.0	2930.9	2558.8	2534.9	2537.2	2649.7	3021.1
45°	3913.3	3940.3	4027.3	3993.4	3709.9	3229.9	2827.7	2803.0	2804.6	2929.4	3280.0
47.5°	3968.0	3997.3	4173.7	4254.6	4066.6	3587.4	3162.1	3125.9	3131.3	3269.2	3575.8
50°	3950.3	3989.6	4228.4	4455.7	4365.6	3951.0	3562.0	3536.5	3515.7	3716.1	3897.1
52.5°	3797.7	3840.9	4223.0	4583.6	4609.8	4294.7	3974.9	3960.3	3955.7	4190.7	4256.2
55°	3348.5	3421.0	4037.3	4617.5	4800.9	4618.3	4422.6	4397.9	4421.8	4699.2	4619.1
57.5°	3099.7	3153.6	3673.7	4579.8	4957.3	4926.5	4869.5	4871.8	4898.7	5251.6	5059.0
60°	2957.9	3021.1	3471.8	4476.5	5107.5	5300.9	5337.2	5337.2	5385.7	5847.2	5505.9
62.5°	2769.9	2833.8	3283.0	4277.7	5246.2	5741.7	5925.0	5922.7	5942.0	6485.9	5942.8
65°	2388.5	2447.8	2904.0	3964.1	5314.0	6227.1	6593.0	6586.1	6547.6	7054.6	6231.7
67.5°	1734.4	1790.6	2224.4	3367.8	5069.8	6618.5	7281.1	7284.2	7053.8	7412.8	6247.1
70°	1143.4	1181.9	1430.0	2187.4	4122.9	6449.7	7569.2	7578.5	7131.6	7189.4	5559.8
72.5°	713.5	740.4	893.0	1304.4	2436.3	5105.2	6829.6	6855.0	6415.8	6318.0	4568.2
75°	473.8	492.3	594.0	760.5	1127.2	2763.0	5191.5	5273.2	5142.2	4952.7	3182.9
77.5°	285.1	300.5	378.3	483.1	499.3	1079.4	3030.3	3241.4	3259.9	2585.7	1332.9
80°	130.2	147.9	208.8	275.8	265.8	376.0	1068.7	1118.0	1319.1	821.3	420.7
82.5°	77.0	84.8	138.7	137.1	113.3	182.6	384.5	394.5	335.2	300.5	179.5
85°	30.8	36.2	58.6	51.6	41.6	59.3	144.9	151.8	145.6	131.0	66.3
87.5°	0.0	0.0	0.0	0.0	0.8	1.5	13.1	13.9	20.0	36.2	20.0
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°	1763.6	1763.6	1763.6	1763.6	1763.6	1763.6	1763.6	1763.6	1763.6	1763.6	1763.6
2.5°	1776.7	1772.1	1795.2	1813.0	1820.7	1828.4	1821.4	1819.1	1819.1	1803.7	1796.0
5°	1796.0	1798.3	1829.9	1844.5	1844.5	1838.4	1819.9	1806.8	1802.2	1782.1	1776.7
7.5°	1832.2	1842.2	1871.5	1870.7	1849.2	1815.3	1769.0	1733.6	1701.2	1687.4	1678.9
10°	1891.5	1904.6	1924.7	1892.3	1832.2	1742.8	1645.0	1567.9	1521.7	1484.7	1484.7
12.5°	1959.3	1971.7	1967.8	1893.1	1769.0	1601.8	1460.8	1372.2	1307.5	1273.6	1273.6
15°	2027.1	2037.2	1995.6	1857.6	1637.3	1414.6	1260.5	1154.2	1097.9	1066.4	1066.4
17.5°	2095.7	2094.9	2007.1	1776.0	1465.5	1207.4	1056.3	973.9	954.6	949.2	948.5
20°	2162.0	2144.3	1992.5	1639.6	1265.9	998.5	903.0	908.4	936.9	949.2	950.8
22.5°	2236.7	2192.8	1949.3	1465.5	1039.4	853.7	859.9	904.5	946.2	964.6	967.0
25°	2313.0	2234.4	1876.9	1261.3	849.8	800.5	848.3	898.4	945.4	969.3	971.6
27.5°	2343.8	2234.4	1753.6	1024.7	748.9	778.2	830.6	879.1	928.4	956.2	961.6
30°	2369.2	2215.1	1581.0	811.3	707.3	756.6	802.1	846.8	895.3	929.2	935.4
32.5°	2404.7	2198.2	1372.2	681.9	688.0	735.8	767.4	805.2	849.1	871.4	869.1
35°	2446.3	2172.0	1120.3	620.2	671.9	718.1	740.4	762.8	742.7	742.0	744.3
37.5°	2505.6	2148.9	900.7	592.5	661.1	705.8	724.3	676.5	648.7	637.2	632.6
40°	2591.1	2139.6	710.4	576.3	659.5	705.0	691.9	617.9	580.2	540.1	539.3
42.5°	2699.0	2132.7	587.1	568.6	664.9	722.7	647.2	579.4	501.6	483.9	482.3
45°	2837.7	2121.9	525.5	567.1	678.0	736.6	642.6	526.2	473.1	465.4	465.4
47.5°	3004.9	2105.0	497.7	567.1	692.7	730.4	628.7	514.7	460.0	468.5	473.8
50°	3196.7	2083.4	483.1	565.5	707.3	730.4	599.4	512.4	456.9	500.8	518.5
52.5°	3401.7	2058.7	473.1	559.4	717.3	731.2	601.0	520.1	460.0	508.5	523.2
55°	3628.2	2054.9	459.2	546.3	720.4	711.2	604.8	537.0	464.6	460.8	461.5
57.5°	3914.1	2101.1	449.2	527.0	708.1	670.3	612.5	549.4	459.2	460.0	465.4
60°	4213.0	2188.2	457.7	508.5	682.6	631.8	617.9	543.2	433.0	420.7	422.2
62.5°	4467.3	2254.4	464.6	500.0	645.7	597.9	612.5	529.3	418.4	415.3	422.2
65°	4573.6	2199.7	447.7	482.3	591.7	556.3	601.0	511.6	406.0	394.5	395.3
67.5°	4455.7	1943.2	414.5	443.0	530.9	503.1	582.5	488.5	389.1	375.2	372.1
70°	3806.2	1427.7	357.5	380.6	456.9	440.7	554.0	458.4	362.1	352.1	345.2
72.5°	3067.3	1010.9	296.6	302.8	358.3	371.4	504.7	420.7	331.3	302.8	292.8
75°	2135.0	634.9	247.3	241.2	258.9	283.5	393.7	349.0	285.9	255.8	246.6
77.5°	918.4	325.9	193.4	190.3	172.6	196.5	302.0	291.2	239.6	204.9	199.6
80°	307.4	188.8	139.5	134.1	114.8	137.9	212.7	232.7	188.0	151.8	142.5
82.5°	154.1	109.4	88.6	80.1	77.0	87.1	125.6	144.9	130.2	104.8	88.6
85°	75.5	62.4	48.5	47.8	40.1	37.8	52.4	61.6	58.6	43.1	40.8
87.5°	27.7	24.7	15.4	12.3	7.7	5.4	3.1	3.1	2.3	2.3	2.3
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)