

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: P630966

Luminaire Tested: GWS-SA1E-760-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630966  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1E-760-U-T3R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

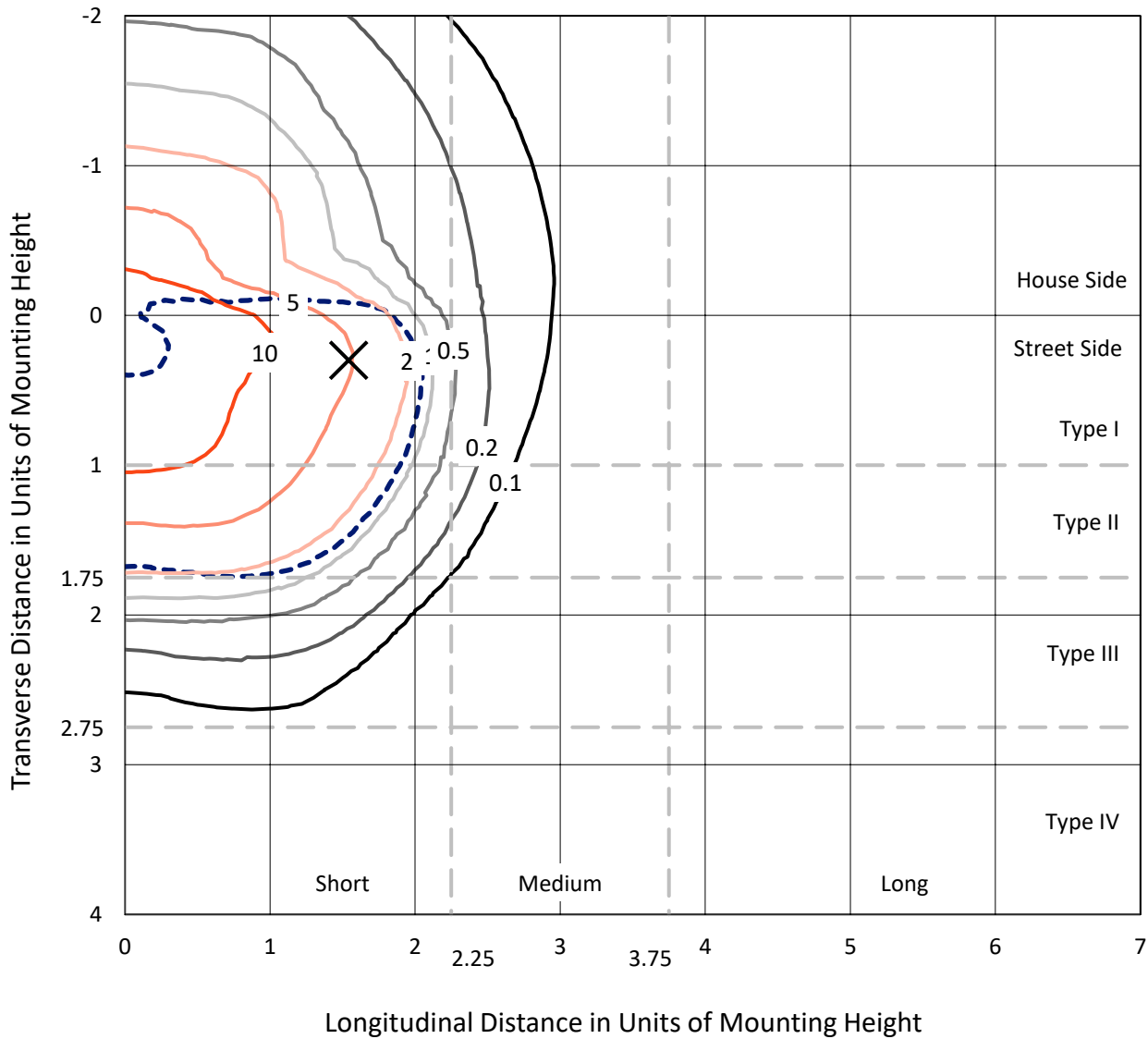
Lumens per Lamp: N/A  
Luminaire Lumens: 6702.6 lumens  
Efficiency: N/A  
Efficacy: 114.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 58.4  
Input Voltage (V): 120  
Input Current (Ain): 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

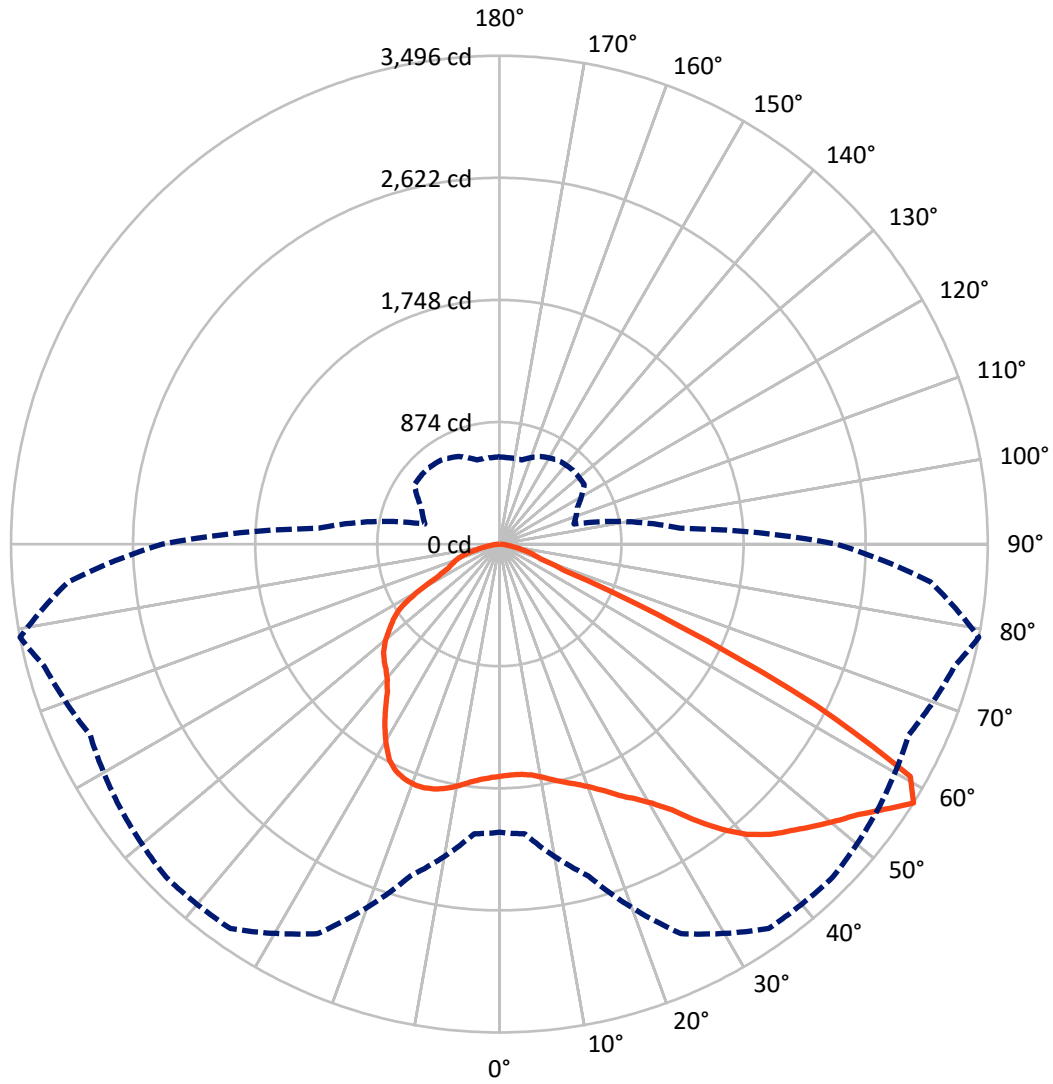
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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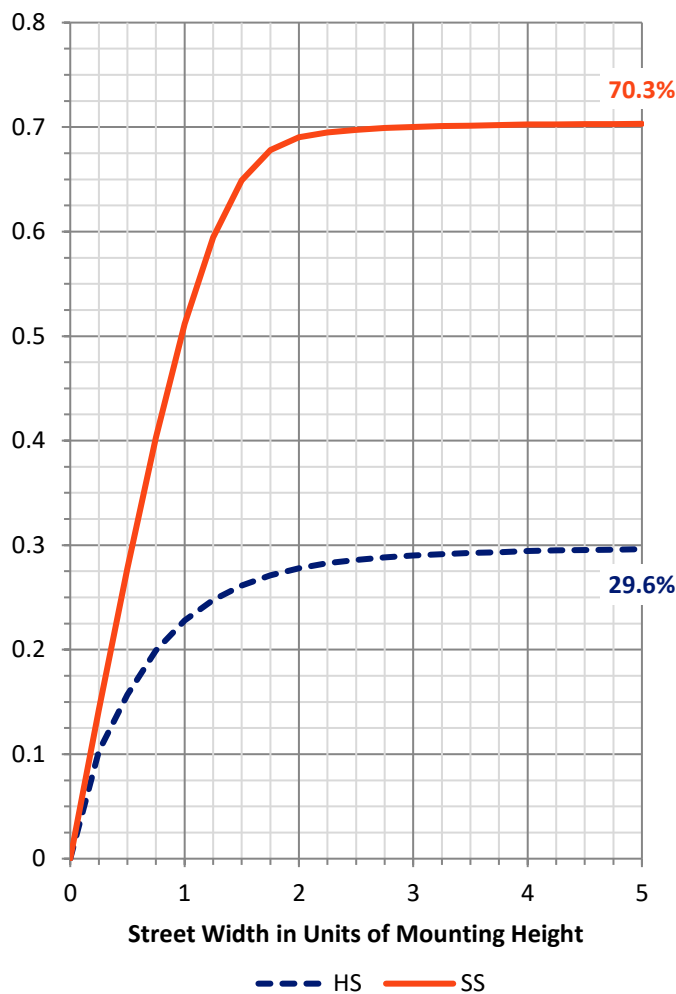
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1992.4	0.0	1992.4
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	4710.2	0.0	4710.2
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	6702.6	0.0	6702.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.8	2.3
10°-20°	427.5	6.4
20°-30°	724.6	10.8
30°-40°	1109.1	16.5
40°-50°	1478.9	22.1
50°-60°	1708.0	25.5
60°-70°	887.5	13.2
70°-80°	188.7	2.8
80°-90°	24.4	0.4
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°	6702.6	100.0
0°-180°	6702.6	100.0

**Coefficient of Utilization**



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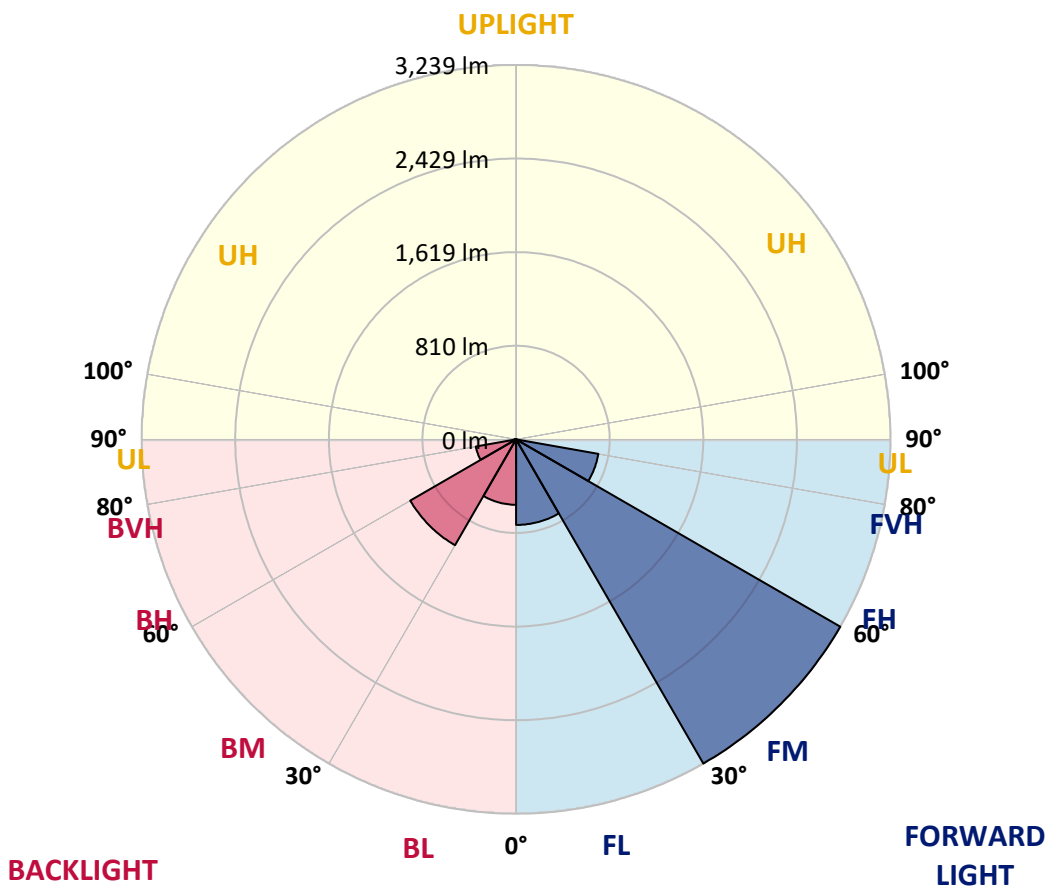
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	740.1	11.0			
FM (30°-60°)	3238.9	48.3			
FH (60°-80°)	722.7	10.8			G1/1800
FVH (80°-90°)	8.5	0.1			G0/10
BL (0°-30°)	565.8	8.4	B2/1000		
BM (30°-60°)	1057.1	15.8	B2/2500		
BH (60°-80°)	353.5	5.3	B1/500		G1/500
BVH (80°-90°)	15.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1661.1	1661.1	1661.1	1661.1	1661.1	1661.1	1661.1	1661.1	1661.1	1661.1	1661.1
2.5°	1585.4	1582.1	1583.2	1587.6	1604.1	1616.1	1628.7	1640.2	1651.2	1654.5	1657.2
5°	1529.0	1523.0	1524.6	1531.7	1550.9	1571.2	1593.7	1621.1	1647.4	1656.1	1667.6
7.5°	1489.0	1487.9	1490.6	1501.6	1521.9	1541.0	1570.1	1609.0	1654.5	1669.3	1689.6
10°	1435.8	1433.6	1444.6	1467.1	1500.5	1531.2	1565.7	1611.7	1675.3	1697.2	1728.5
12.5°	1393.6	1392.5	1404.0	1435.3	1478.0	1526.8	1574.5	1626.0	1703.3	1733.4	1771.8
15°	1418.3	1413.4	1413.9	1435.8	1474.2	1531.7	1596.4	1651.7	1731.2	1769.6	1818.9
17.5°	1490.1	1481.3	1474.7	1478.6	1500.5	1560.2	1629.8	1686.3	1763.5	1808.5	1868.8
20°	1589.3	1584.3	1566.3	1554.2	1559.1	1611.7	1682.4	1735.0	1805.7	1856.2	1920.8
22.5°	1722.4	1710.4	1685.7	1666.5	1651.7	1692.8	1758.1	1803.5	1864.4	1917.0	1984.4
25°	1887.4	1869.9	1830.9	1800.8	1769.0	1811.2	1869.3	1903.8	1944.9	1993.7	2057.8
27.5°	2055.6	2040.8	1997.5	1957.0	1917.5	1943.8	2012.9	2032.6	2028.2	2063.9	2118.7
30°	2234.8	2216.2	2175.1	2131.3	2080.3	2097.3	2159.2	2169.1	2122.5	2152.1	2189.4
32.5°	2423.9	2405.8	2370.2	2319.2	2261.7	2268.3	2285.3	2294.6	2250.2	2267.2	2295.7
35°	2616.3	2599.3	2563.1	2512.7	2470.5	2430.5	2387.7	2425.0	2399.2	2432.1	2429.9
37.5°	2792.2	2775.2	2752.7	2713.8	2641.5	2562.6	2463.9	2509.9	2550.0	2591.6	2584.5
40°	2911.1	2899.6	2905.1	2899.0	2805.9	2649.7	2501.2	2551.6	2660.7	2731.9	2728.1
42.5°	3013.6	3002.1	3033.9	3056.9	2947.3	2730.3	2519.3	2567.5	2731.3	2842.6	2837.1
45°	3059.1	3055.8	3108.4	3181.3	3076.6	2815.7	2565.8	2600.4	2785.1	2927.5	2906.7
47.5°	3004.8	3016.3	3119.9	3243.2	3184.0	2917.1	2661.2	2670.0	2855.2	3019.6	2961.0
50°	2896.9	2922.1	3061.8	3244.8	3262.4	3031.7	2793.3	2771.4	2949.5	3117.7	2989.5
52.5°	2739.6	2765.9	2993.9	3232.2	3307.3	3164.3	2969.2	2938.0	3068.4	3215.8	2994.4
55°	2378.4	2414.0	2838.2	3203.7	3351.2	3284.9	3167.6	3104.0	3221.8	3350.6	3043.2
57.5°	2063.3	2081.9	2459.0	3077.2	3359.9	3373.6	3309.0	3233.3	3374.2	3496.4	3098.0
60°	1514.2	1518.6	1857.8	2546.1	3090.9	3322.1	3297.5	3185.1	3301.8	3379.7	2847.0
62.5°	855.5	856.0	1126.7	1699.4	2308.8	2707.8	2723.1	2623.9	2525.8	2548.9	1981.7
65°	321.1	351.3	514.6	835.2	1331.1	1598.6	1662.2	1685.2	1521.9	1420.5	1062.6
67.5°	214.8	221.9	300.3	429.7	592.4	683.9	765.0	767.2	561.2	500.3	418.7
70°	163.9	171.0	236.2	307.4	300.3	277.3	299.8	291.5	301.4	309.6	318.4
72.5°	122.2	129.3	183.0	217.0	180.3	177.6	201.1	223.6	244.4	253.2	266.9
75°	81.1	86.6	123.3	116.2	99.7	117.8	146.9	169.3	181.4	191.8	202.2
77.5°	51.5	55.4	65.8	53.2	55.4	69.1	85.5	105.8	117.3	127.7	133.2
80°	23.6	23.0	22.5	25.2	31.2	40.6	51.5	63.6	72.3	76.7	80.0
82.5°	9.3	10.4	11.5	13.7	17.0	21.9	29.0	37.3	44.4	45.5	48.2
85°	3.8	4.4	4.9	6.0	7.7	9.9	12.1	17.0	21.4	23.0	24.7
87.5°	0.0	0.0	0.0	0.0	0.5	1.1	1.6	2.7	4.9	5.5	6.0
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°	1661.1	1661.1	1661.1	1661.1	1661.1	1661.1	1661.1	1661.1	1661.1	1661.1	1661.1
2.5°	1672.0	1664.9	1677.0	1685.2	1692.8	1684.6	1681.9	1674.8	1673.7	1673.7	1677.5
5°	1687.4	1682.4	1695.0	1700.0	1699.4	1681.3	1670.4	1656.1	1649.0	1649.0	1650.1
7.5°	1714.8	1712.0	1719.1	1711.5	1693.9	1657.2	1621.1	1590.9	1570.6	1560.2	1563.5
10°	1760.3	1757.0	1750.9	1722.4	1672.0	1595.8	1521.9	1467.1	1434.2	1415.5	1416.6
12.5°	1804.6	1799.2	1777.8	1714.8	1611.2	1490.1	1393.1	1331.7	1295.5	1273.6	1268.7
15°	1853.4	1839.2	1793.1	1675.3	1512.0	1360.7	1259.4	1193.0	1154.1	1141.0	1140.4
17.5°	1900.0	1874.8	1791.5	1605.2	1393.1	1225.4	1123.4	1082.3	1075.8	1081.8	1083.4
20°	1947.1	1906.6	1773.4	1508.2	1251.7	1090.6	1038.0	1054.9	1079.6	1096.0	1099.9
22.5°	1995.9	1932.9	1732.3	1383.2	1102.6	999.6	1021.5	1058.8	1089.5	1111.4	1113.6
25°	2050.7	1957.5	1670.9	1230.3	983.2	974.4	1017.7	1057.1	1090.0	1115.2	1119.6
27.5°	2081.9	1958.1	1584.9	1073.0	928.4	964.5	1008.4	1045.6	1078.5	1105.9	1110.8
30°	2112.6	1943.3	1448.4	945.3	912.5	953.0	992.5	1027.0	1058.2	1085.1	1091.1
32.5°	2155.9	1929.6	1291.1	871.9	903.1	942.1	974.4	1005.1	1029.2	1041.2	1044.5
35°	2209.6	1912.1	1124.0	840.1	897.1	933.3	961.8	978.2	947.0	940.4	947.5
37.5°	2284.7	1895.6	957.4	826.4	893.3	930.0	955.2	913.0	874.6	859.3	864.8
40°	2365.8	1886.3	844.5	815.5	894.9	933.3	927.8	865.3	810.0	777.6	776.5
42.5°	2434.9	1872.0	772.2	808.3	899.3	945.9	890.5	823.1	740.9	721.7	722.3
45°	2481.5	1835.9	733.8	800.7	903.1	948.6	873.0	765.0	706.4	694.3	693.8
47.5°	2500.6	1770.1	709.1	788.6	902.6	926.2	837.4	740.9	682.3	679.0	681.2
50°	2488.0	1662.2	683.9	765.0	889.4	902.6	796.3	719.6	665.8	683.9	697.1
52.5°	2441.4	1522.4	653.8	732.7	865.9	875.7	775.5	706.4	653.8	677.9	688.3
55°	2429.4	1409.0	615.4	690.5	830.8	828.1	753.5	699.8	645.6	636.3	637.9
57.5°	2413.5	1298.3	551.9	614.9	742.0	746.4	732.7	692.2	624.2	621.5	624.2
60°	2096.7	995.2	492.1	530.5	609.4	633.0	709.1	677.9	589.7	578.2	577.6
62.5°	1369.5	602.8	437.9	462.5	496.5	523.9	646.7	636.8	551.9	544.7	549.7
65°	736.5	429.7	398.4	413.2	431.8	452.7	536.0	567.2	498.7	473.5	474.0
67.5°	376.5	365.5	368.8	379.2	393.5	403.9	432.4	459.8	425.3	403.9	403.3
70°	322.2	331.0	335.9	342.0	351.3	349.6	352.4	357.3	354.6	344.2	343.6
72.5°	274.6	288.3	289.4	290.5	293.7	286.1	281.1	272.9	273.5	275.1	275.7
75°	208.8	221.9	225.2	223.6	226.9	217.0	210.4	202.2	192.4	190.7	191.8
77.5°	135.9	146.3	151.3	150.2	151.8	144.1	140.8	132.1	120.6	116.2	116.2
80°	82.2	88.2	92.1	93.2	94.8	89.3	83.8	76.2	71.2	66.3	66.3
82.5°	49.9	53.7	56.4	56.4	58.1	52.1	47.7	42.2	40.0	35.6	35.6
85°	25.2	27.9	29.0	28.5	27.4	22.5	20.8	18.1	17.0	14.8	14.8
87.5°	6.0	7.7	7.7	5.5	5.5	2.7	1.6	0.5	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)