

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: P630911

Luminaire Tested: GWS-SA1E-750-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630911  
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-750-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) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

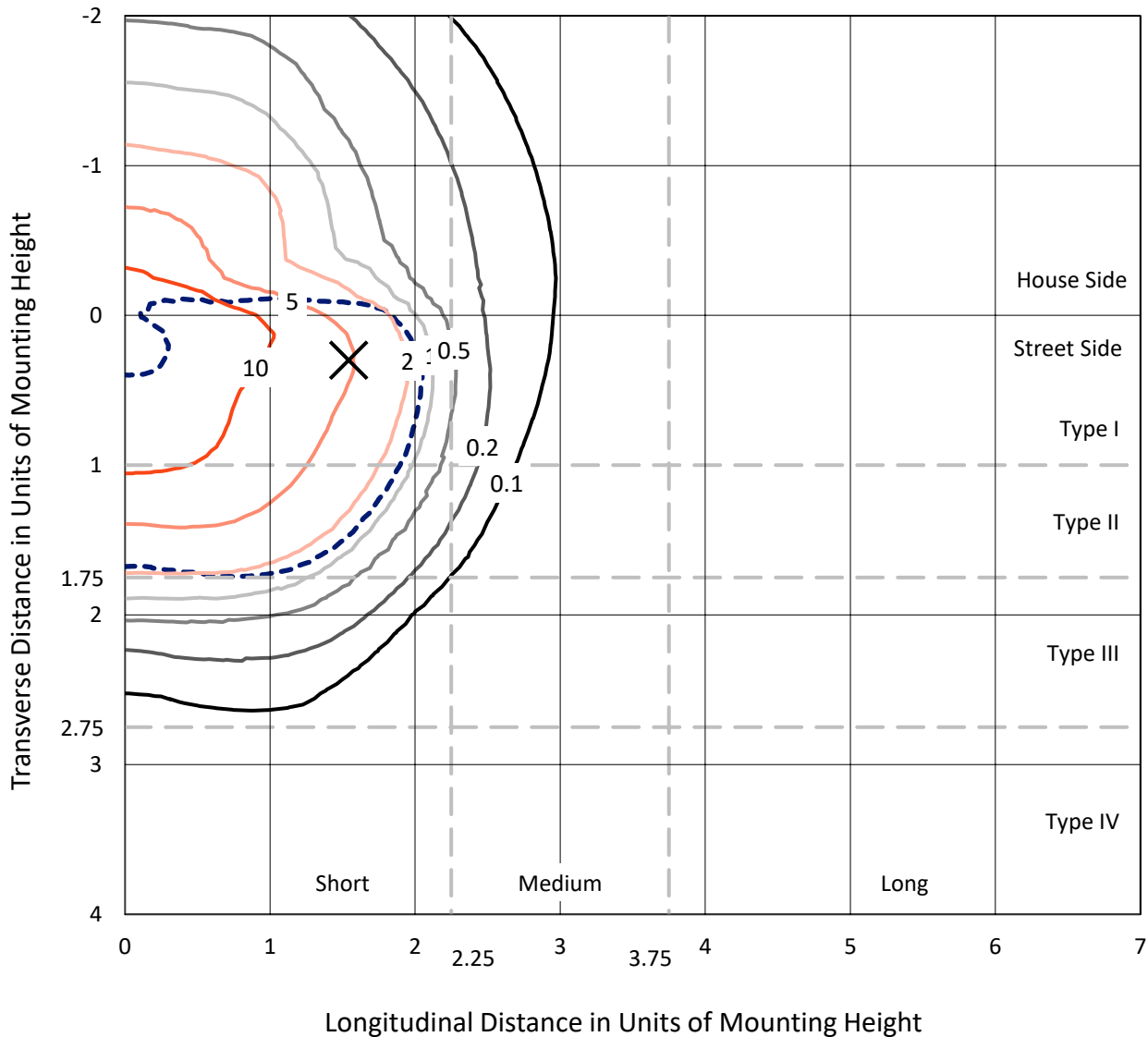
Lumens per Lamp: N/A  
Luminaire Lumens: 6795.8 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 58.4  
Input Voltage (V): 120  
Input Current (Ain): 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

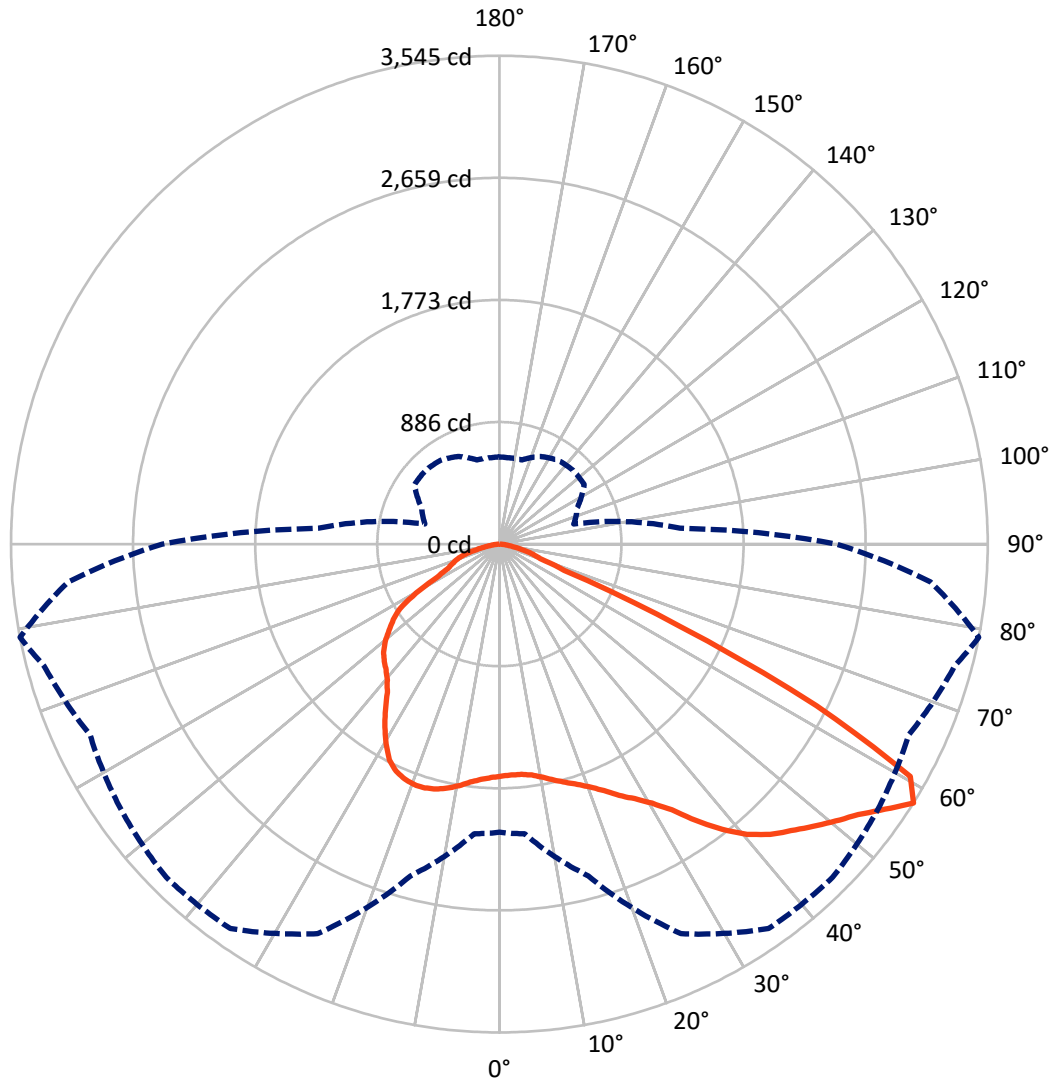
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17 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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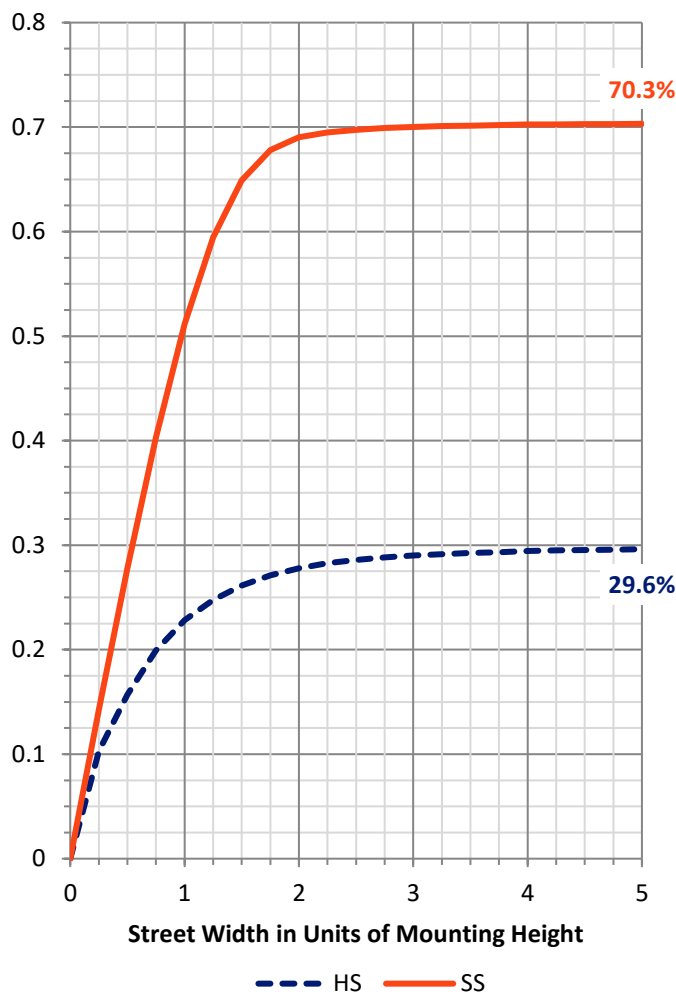
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2020.1	0.0	2020.1
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	4775.7	0.0	4775.7
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	6795.8	0.0	6795.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.0	2.3
10°-20°	433.4	6.4
20°-30°	734.7	10.8
30°-40°	1124.5	16.5
40°-50°	1499.5	22.1
50°-60°	1731.8	25.5
60°-70°	899.9	13.2
70°-80°	191.3	2.8
80°-90°	24.8	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°	6795.8	100.0
0°-180°	6795.8	100.0

**Coefficient of Utilization**



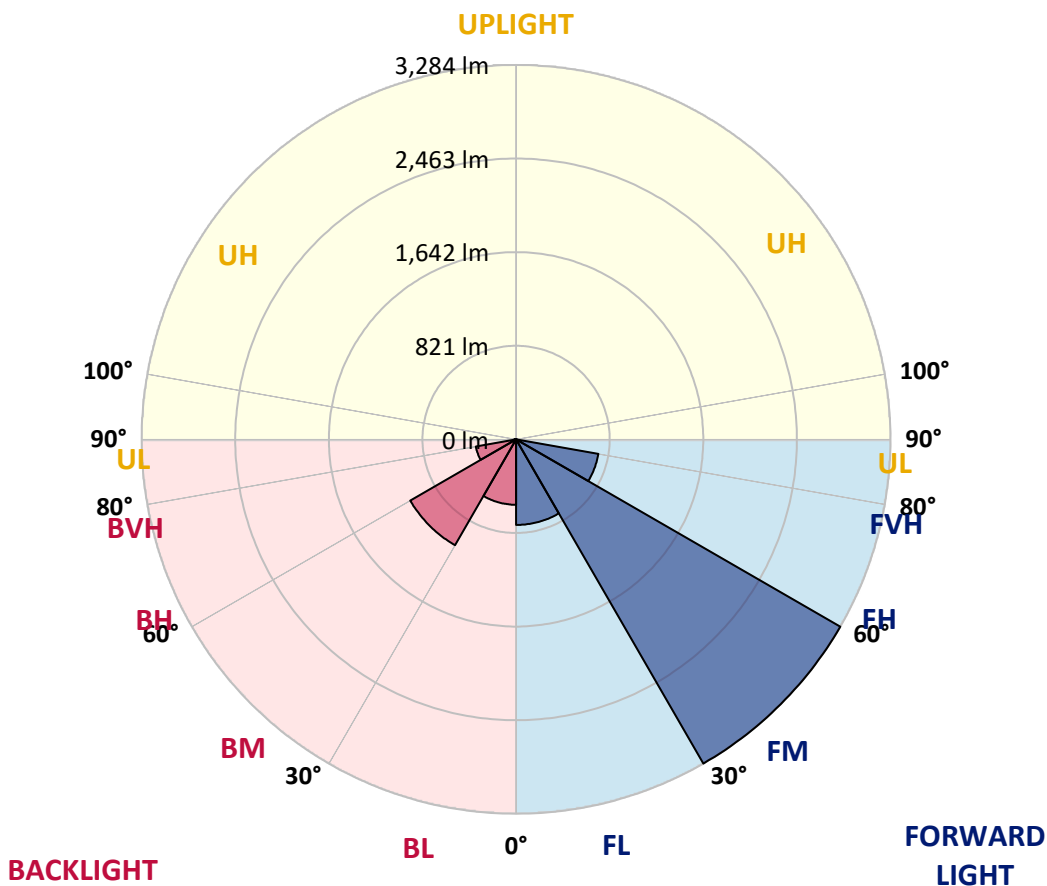
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	750.4	11.0			
FM (30°-60°)	3283.9	48.3			
FH (60°-80°)	732.8	10.8			G1/1800
FVH (80°-90°)	8.6	0.1			G0/10
BL (0°-30°)	573.7	8.4	B2/1000		
BM (30°-60°)	1071.8	15.8	B2/2500		
BH (60°-80°)	358.4	5.3	B1/500		G1/500
BVH (80°-90°)	16.1	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°	1684.2	1684.2	1684.2	1684.2	1684.2	1684.2	1684.2	1684.2	1684.2	1684.2	1684.2
2.5°	1607.5	1604.1	1605.3	1609.7	1626.4	1638.6	1651.4	1663.0	1674.2	1677.5	1680.3
5°	1550.2	1544.1	1545.8	1553.0	1572.5	1593.0	1615.8	1643.6	1670.3	1679.2	1690.8
7.5°	1509.7	1508.6	1511.4	1522.5	1543.0	1562.5	1591.9	1631.4	1677.5	1692.5	1713.0
10°	1455.8	1453.6	1464.7	1487.5	1521.4	1552.5	1587.5	1634.1	1698.6	1720.8	1752.5
12.5°	1413.0	1411.9	1423.6	1455.2	1498.6	1548.0	1596.4	1648.6	1726.9	1757.5	1796.4
15°	1438.0	1433.0	1433.6	1455.8	1494.7	1553.0	1618.6	1674.7	1755.3	1794.2	1844.2
17.5°	1510.8	1501.9	1495.2	1499.1	1521.4	1581.9	1652.5	1709.7	1788.1	1833.6	1894.7
20°	1611.4	1606.4	1588.0	1575.8	1580.8	1634.1	1705.8	1759.2	1830.8	1882.0	1947.5
22.5°	1746.4	1734.2	1709.2	1689.7	1674.7	1716.4	1782.5	1828.6	1890.3	1943.6	2012.0
25°	1913.6	1895.9	1856.4	1825.8	1793.6	1836.4	1895.3	1930.3	1972.0	2021.4	2086.4
27.5°	2084.2	2069.2	2025.3	1984.2	1944.2	1970.9	2040.9	2060.9	2056.4	2092.6	2148.1
30°	2265.9	2247.0	2205.4	2160.9	2109.2	2126.4	2189.2	2199.2	2152.0	2182.0	2219.8
32.5°	2457.6	2439.3	2403.2	2351.5	2293.1	2299.8	2317.0	2326.5	2281.5	2298.7	2327.6
35°	2652.6	2635.4	2598.7	2547.6	2504.8	2464.3	2420.9	2458.7	2432.6	2465.9	2463.7
37.5°	2831.0	2813.8	2791.0	2751.5	2678.2	2598.2	2498.2	2544.8	2585.4	2627.6	2620.4
40°	2951.6	2939.9	2945.5	2939.4	2844.9	2686.5	2536.0	2587.1	2697.7	2769.9	2766.0
42.5°	3055.5	3043.8	3076.0	3099.4	2988.3	2768.2	2554.3	2603.2	2769.3	2882.1	2876.6
45°	3101.6	3098.3	3151.6	3225.5	3119.4	2854.9	2601.5	2636.5	2823.8	2968.2	2947.1
47.5°	3046.6	3058.3	3163.3	3288.3	3228.3	2957.7	2698.2	2707.1	2894.9	3061.6	3002.1
50°	2937.1	2962.7	3104.4	3290.0	3307.7	3073.8	2832.1	2809.9	2990.5	3161.1	3031.0
52.5°	2777.7	2804.3	3035.5	3277.2	3353.3	3208.3	3010.5	2978.8	3111.0	3260.5	3036.0
55°	2411.5	2447.6	2877.7	3248.3	3397.8	3330.5	3211.6	3147.2	3266.6	3397.2	3085.5
57.5°	2092.0	2110.9	2493.2	3119.9	3406.7	3420.5	3355.0	3278.3	3421.1	3545.0	3141.1
60°	1535.2	1539.7	1883.6	2581.5	3133.8	3368.3	3343.3	3229.4	3347.8	3426.7	2886.6
62.5°	867.4	867.9	1142.4	1723.1	2340.9	2745.4	2761.0	2660.4	2561.0	2584.3	2009.2
65°	325.6	356.2	521.7	846.8	1349.7	1620.8	1685.3	1708.6	1543.0	1440.2	1077.4
67.5°	217.8	225.0	304.5	435.6	600.7	693.4	775.7	777.9	569.0	507.3	424.5
70°	166.1	173.4	239.5	311.7	304.5	281.2	303.9	295.6	305.6	313.9	322.8
72.5°	123.9	131.1	185.6	220.0	182.8	180.0	203.9	226.7	247.8	256.7	270.6
75°	82.2	87.8	125.0	117.8	101.1	119.5	148.9	171.7	183.9	194.5	205.0
77.5°	52.2	56.1	66.7	53.9	56.1	70.0	86.7	107.2	118.9	129.5	135.0
80°	23.9	23.3	22.8	25.6	31.7	41.1	52.2	64.5	73.3	77.8	81.1
82.5°	9.4	10.6	11.7	13.9	17.2	22.2	29.4	37.8	45.0	46.1	48.9
85°	3.9	4.4	5.0	6.1	7.8	10.0	12.2	17.2	21.7	23.3	25.0
87.5°	0.0	0.0	0.0	0.0	0.6	1.1	1.7	2.8	5.0	5.6	6.1
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°	1684.2	1684.2	1684.2	1684.2	1684.2	1684.2	1684.2	1684.2	1684.2	1684.2	1684.2
2.5°	1695.3	1688.0	1700.3	1708.6	1716.4	1708.0	1705.3	1698.0	1696.9	1696.9	1700.8
5°	1710.8	1705.8	1718.6	1723.6	1723.1	1704.7	1693.6	1679.2	1671.9	1671.9	1673.0
7.5°	1738.6	1735.8	1743.1	1735.3	1717.5	1680.3	1643.6	1613.0	1592.5	1581.9	1585.3
10°	1784.7	1781.4	1775.3	1746.4	1695.3	1618.0	1543.0	1487.5	1454.1	1435.2	1436.3
12.5°	1829.7	1824.2	1802.5	1738.6	1633.6	1510.8	1412.4	1350.2	1313.5	1291.3	1286.3
15°	1879.2	1864.7	1818.1	1698.6	1533.0	1379.7	1276.9	1209.6	1170.2	1156.9	1156.3
17.5°	1926.4	1900.9	1816.4	1627.5	1412.4	1242.4	1139.1	1097.4	1090.7	1096.8	1098.5
20°	1974.2	1933.1	1798.1	1529.1	1269.1	1105.7	1052.4	1069.6	1094.6	1111.3	1115.2
22.5°	2023.7	1959.8	1756.4	1402.4	1118.0	1013.5	1035.7	1073.5	1104.6	1126.8	1129.1
25°	2079.2	1984.8	1694.2	1247.4	996.8	987.9	1031.8	1071.8	1105.2	1130.7	1135.2
27.5°	2110.9	1985.3	1606.9	1088.0	941.3	977.9	1022.4	1060.2	1093.5	1121.3	1126.3
30°	2142.0	1970.3	1468.6	958.5	925.1	966.3	1006.3	1041.3	1072.9	1100.2	1106.3
32.5°	2185.9	1956.4	1309.1	884.0	915.7	955.2	987.9	1019.1	1043.5	1055.7	1059.1
35°	2240.4	1938.6	1139.6	851.8	909.6	946.3	975.2	991.8	960.2	953.5	960.7
37.5°	2316.5	1922.0	970.7	837.9	905.7	942.9	968.5	925.7	886.8	871.2	876.8
40°	2398.7	1912.5	856.2	826.8	907.4	946.3	940.7	877.4	821.2	788.5	787.3
42.5°	2468.7	1898.1	782.9	819.6	911.8	959.0	902.9	834.6	751.2	731.8	732.3
45°	2516.0	1861.4	744.0	811.8	915.7	961.8	885.1	775.7	716.2	704.0	703.4
47.5°	2535.4	1794.7	719.0	799.6	915.1	939.0	849.0	751.2	691.8	688.4	690.7
50°	2522.6	1685.3	693.4	775.7	901.8	915.1	807.4	729.6	675.1	693.4	706.8
52.5°	2475.4	1543.6	662.9	742.9	877.9	887.9	786.2	716.2	662.9	687.3	697.9
55°	2463.2	1428.6	624.0	700.1	842.4	839.6	764.0	709.6	654.5	645.1	646.8
57.5°	2447.1	1316.3	559.5	623.4	752.3	756.8	742.9	701.8	632.9	630.1	632.9
60°	2125.9	1009.0	499.0	537.9	617.9	641.8	719.0	687.3	597.9	586.2	585.6
62.5°	1388.6	611.2	444.0	469.0	503.4	531.2	655.7	645.7	559.5	552.3	557.3
65°	746.8	435.6	404.0	419.0	437.8	459.0	543.4	575.1	505.6	480.1	480.6
67.5°	381.7	370.6	373.9	384.5	399.0	409.5	438.4	466.2	431.2	409.5	409.0
70°	326.7	335.6	340.6	346.7	356.2	354.5	357.3	362.3	359.5	348.9	348.4
72.5°	278.4	292.3	293.4	294.5	297.8	290.0	285.0	276.7	277.3	278.9	279.5
75°	211.7	225.0	228.4	226.7	230.0	220.0	213.4	205.0	195.0	193.4	194.5
77.5°	137.8	148.4	153.4	152.2	153.9	146.1	142.8	133.9	122.2	117.8	117.8
80°	83.3	89.5	93.3	94.5	96.1	90.6	85.0	77.2	72.2	67.2	67.2
82.5°	50.6	54.5	57.2	57.2	58.9	52.8	48.3	42.8	40.6	36.1	36.1
85°	25.6	28.3	29.4	28.9	27.8	22.8	21.1	18.3	17.2	15.0	15.0
87.5°	6.1	7.8	7.8	5.6	5.6	2.8	1.7	0.6	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)