

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: P630581

Luminaire Tested: GWS-SA1D-830-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630581  
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-SA1D-830-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) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

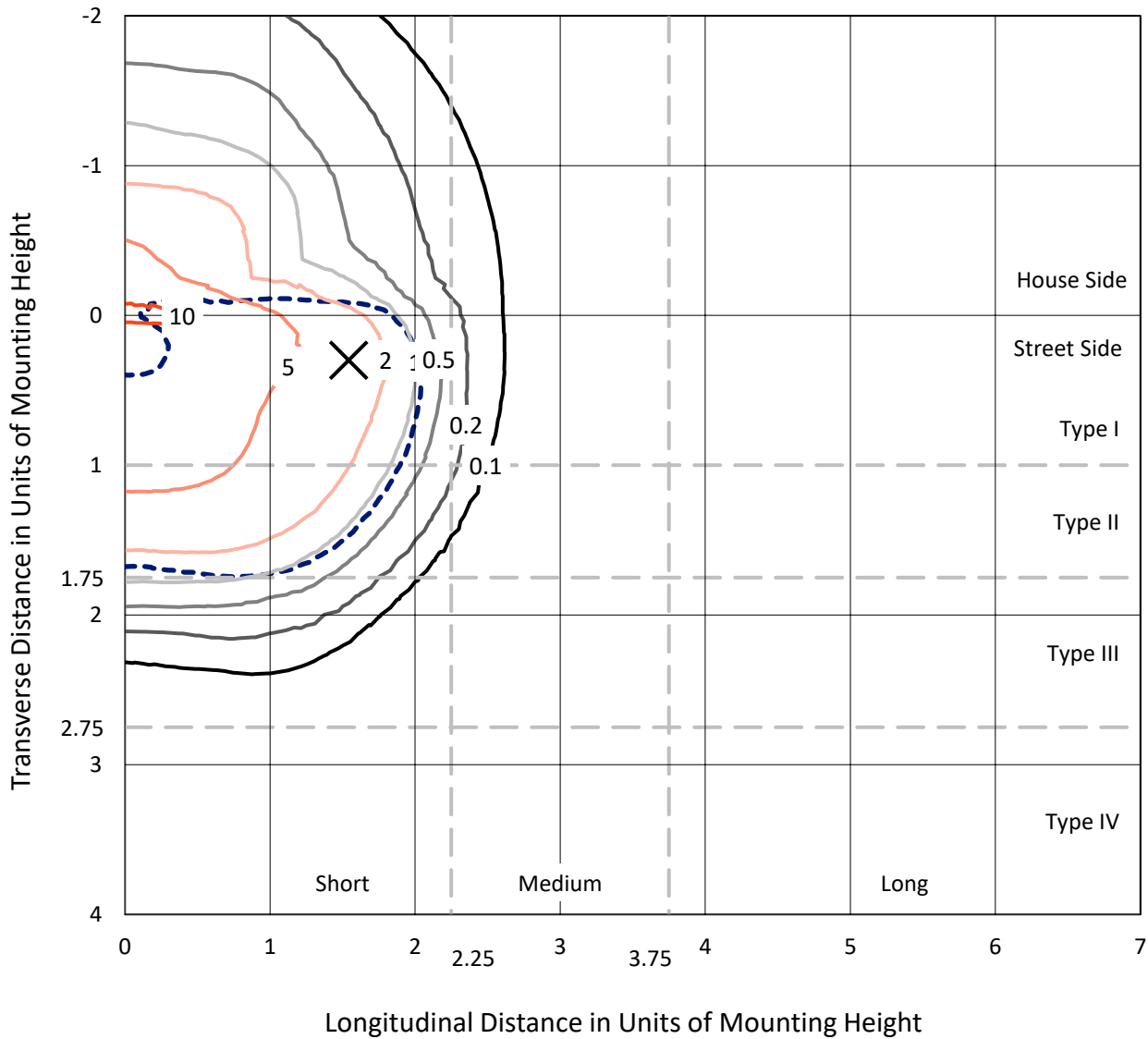
Lumens per Lamp: N/A  
Luminaire Lumens: 4223.2 lumens  
Efficiency: N/A  
Efficacy: 95.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 44.3  
Input Voltage (V): 120  
Input Current (Ain): 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

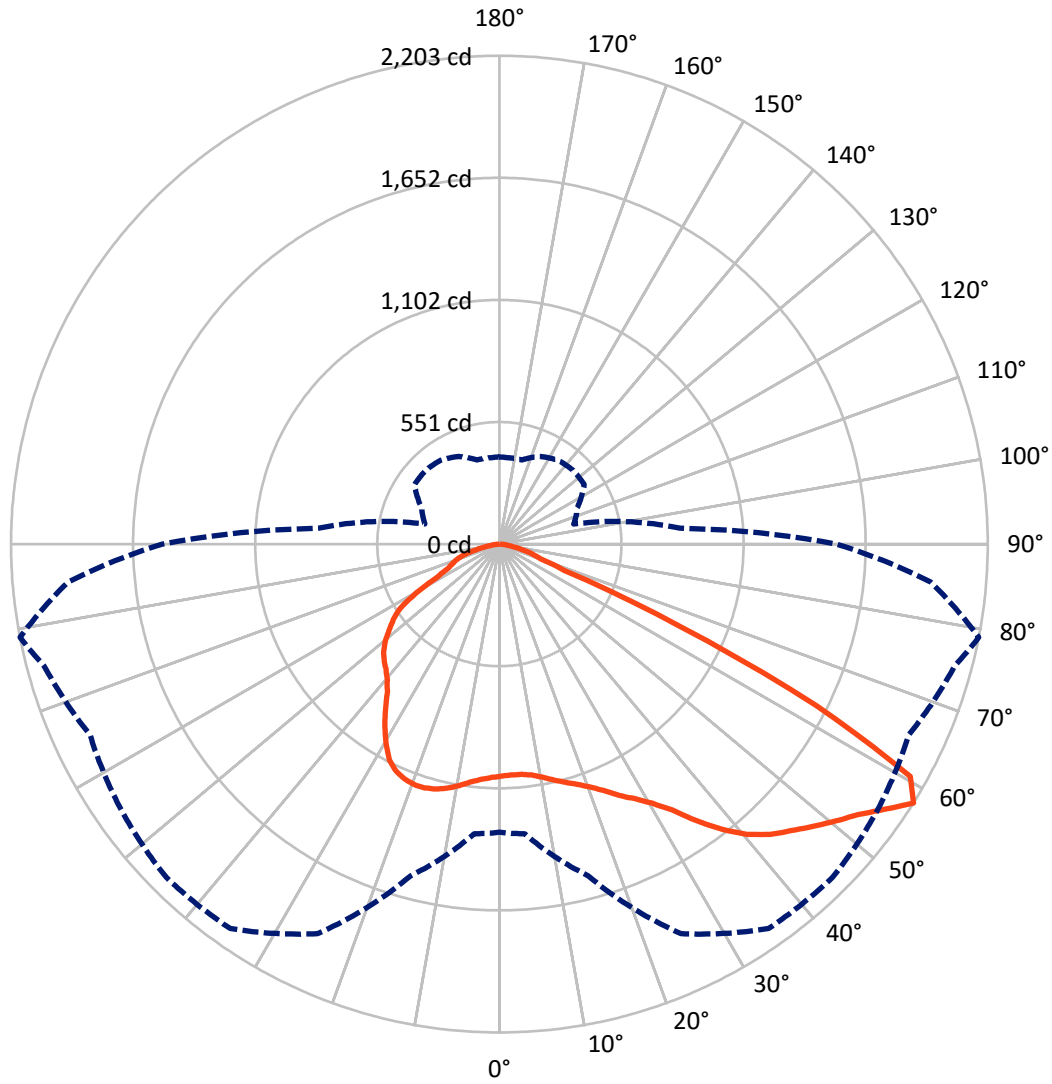
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.6 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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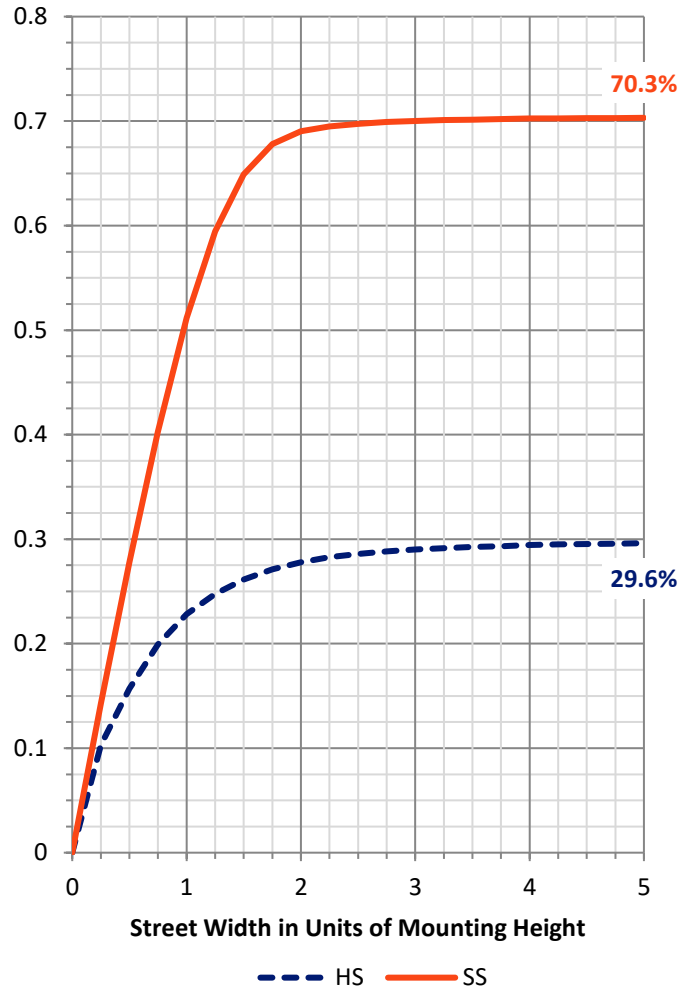
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1255.3	0.0	1255.3
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	2967.8	0.0	2967.8
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	4223.2	0.0	4223.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.9	2.3
10°-20°	269.4	6.4
20°-30°	456.6	10.8
30°-40°	698.8	16.5
40°-50°	931.8	22.1
50°-60°	1076.2	25.5
60°-70°	559.2	13.2
70°-80°	118.9	2.8
80°-90°	15.4	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°	4223.2	100.0
0°-180°	4223.2	100.0

**Coefficient of Utilization**



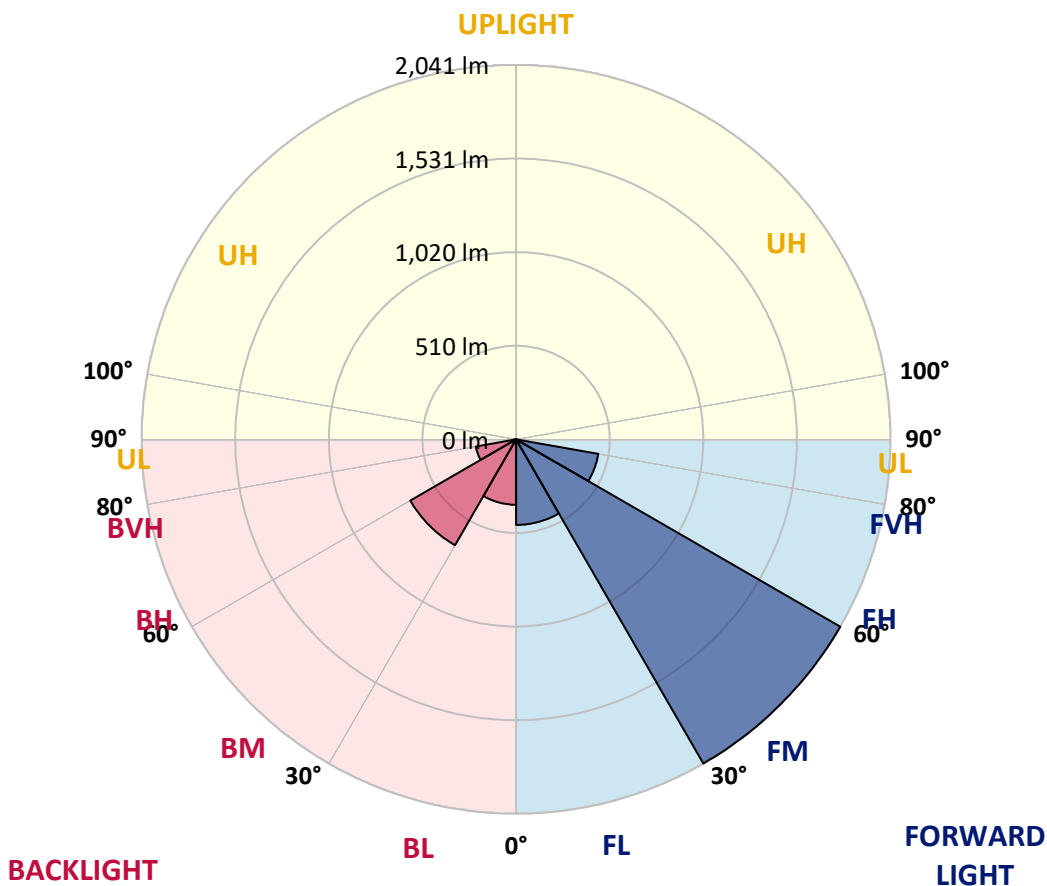
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	466.3	11.0			
FM (30°-60°)	2040.8	48.3			
FH (60°-80°)	455.4	10.8			G0/660
FVH (80°-90°)	5.4	0.1			G0/10
BL (0°-30°)	356.5	8.4	B1/500		
BM (30°-60°)	666.1	15.8	B1/1000		
BH (60°-80°)	222.7	5.3	B1/500		G1/500
BVH (80°-90°)	10.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6
2.5°	999.0	996.9	997.6	1000.3	1010.7	1018.3	1026.2	1033.5	1040.4	1042.5	1044.2
5°	963.4	959.6	960.6	965.1	977.2	990.0	1004.1	1021.4	1038.0	1043.5	1050.8
7.5°	938.2	937.5	939.2	946.1	958.9	971.0	989.3	1013.8	1042.5	1051.8	1064.6
10°	904.7	903.3	910.2	924.4	945.4	964.8	986.5	1015.5	1055.6	1069.4	1089.1
12.5°	878.1	877.4	884.7	904.3	931.3	962.0	992.0	1024.5	1073.2	1092.2	1116.4
15°	893.6	890.5	890.9	904.7	928.9	965.1	1005.9	1040.7	1090.8	1115.0	1146.1
17.5°	938.9	933.3	929.2	931.6	945.4	983.1	1026.9	1062.5	1111.2	1139.5	1177.5
20°	1001.4	998.3	986.9	979.3	982.4	1015.5	1060.1	1093.2	1137.8	1169.5	1210.3
22.5°	1085.3	1077.7	1062.1	1050.1	1040.7	1066.6	1107.7	1136.4	1174.7	1207.9	1250.3
25°	1189.2	1178.2	1153.6	1134.7	1114.6	1141.2	1177.8	1199.6	1225.5	1256.2	1296.6
27.5°	1295.2	1285.9	1258.6	1233.1	1208.2	1224.8	1268.3	1280.7	1278.0	1300.4	1334.9
30°	1408.1	1396.4	1370.5	1342.9	1310.8	1321.5	1360.5	1366.7	1337.3	1356.0	1379.5
32.5°	1527.3	1515.9	1493.4	1461.3	1425.1	1429.2	1439.9	1445.8	1417.8	1428.5	1446.5
35°	1648.5	1637.8	1615.0	1583.2	1556.6	1531.4	1504.5	1528.0	1511.7	1532.4	1531.1
37.5°	1759.3	1748.6	1734.4	1709.9	1664.3	1614.6	1552.5	1581.5	1606.7	1632.9	1628.4
40°	1834.2	1827.0	1830.4	1826.6	1767.9	1669.5	1576.0	1607.7	1676.4	1721.3	1718.9
42.5°	1898.8	1891.6	1911.6	1926.1	1857.0	1720.3	1587.3	1617.7	1721.0	1791.1	1787.6
45°	1927.5	1925.4	1958.5	2004.5	1938.5	1774.2	1616.7	1638.5	1754.8	1844.6	1831.5
47.5°	1893.3	1900.5	1965.8	2043.5	2006.2	1838.0	1676.8	1682.3	1799.0	1902.6	1865.7
50°	1825.3	1841.1	1929.2	2044.5	2055.6	1910.2	1760.0	1746.2	1858.4	1964.4	1883.6
52.5°	1726.2	1742.7	1886.4	2036.6	2083.9	1993.8	1870.8	1851.2	1933.3	2026.2	1886.7
55°	1498.6	1521.0	1788.3	2018.6	2111.5	2069.7	1995.8	1955.8	2030.0	2111.2	1917.5
57.5°	1300.1	1311.8	1549.4	1938.9	2117.0	2125.7	2084.9	2037.3	2126.0	2203.0	1952.0
60°	954.1	956.8	1170.6	1604.3	1947.5	2093.2	2077.7	2006.9	2080.4	2129.5	1793.8
62.5°	539.0	539.4	709.9	1070.8	1454.8	1706.1	1715.8	1653.3	1591.5	1606.0	1248.6
65°	202.3	221.3	324.2	526.2	838.7	1007.2	1047.3	1061.8	958.9	895.0	669.5
67.5°	135.4	139.8	189.2	270.7	373.3	430.9	482.0	483.4	353.6	315.3	263.8
70°	103.2	107.7	148.8	193.7	189.2	174.7	188.9	183.7	189.9	195.1	200.6
72.5°	77.0	81.5	115.3	136.7	113.6	111.9	126.7	140.9	154.0	159.5	168.2
75°	51.1	54.6	77.7	73.2	62.8	74.2	92.5	106.7	114.3	120.9	127.4
77.5°	32.5	34.9	41.4	33.5	34.9	43.5	53.9	66.6	73.9	80.5	83.9
80°	14.8	14.5	14.2	15.9	19.7	25.6	32.5	40.1	45.6	48.3	50.4
82.5°	5.9	6.6	7.3	8.6	10.7	13.8	18.3	23.5	28.0	28.7	30.4
85°	2.4	2.8	3.1	3.8	4.8	6.2	7.6	10.7	13.5	14.5	15.5
87.5°	0.0	0.0	0.0	0.0	0.3	0.7	1.0	1.7	3.1	3.5	3.8
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°	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6
2.5°	1053.5	1049.0	1056.6	1061.8	1066.6	1061.5	1059.7	1055.2	1054.5	1054.5	1057.0
5°	1063.2	1060.1	1068.0	1071.1	1070.8	1059.4	1052.5	1043.5	1039.0	1039.0	1039.7
7.5°	1080.4	1078.7	1083.2	1078.4	1067.3	1044.2	1021.4	1002.4	989.6	983.1	985.1
10°	1109.1	1107.0	1103.2	1085.3	1053.5	1005.5	958.9	924.4	903.7	891.9	892.6
12.5°	1137.1	1133.6	1120.2	1080.4	1015.2	938.9	877.8	839.1	816.3	802.5	799.4
15°	1167.8	1158.8	1129.8	1055.6	952.7	857.4	793.5	751.7	727.2	718.9	718.6
17.5°	1197.2	1181.3	1128.8	1011.4	877.8	772.1	707.9	682.0	677.8	681.6	682.7
20°	1226.9	1201.3	1117.4	950.3	788.7	687.1	654.0	664.7	680.2	690.6	693.0
22.5°	1257.6	1217.9	1091.5	871.5	694.7	629.8	643.6	667.1	686.5	700.3	701.7
25°	1292.1	1233.4	1052.8	775.2	619.5	613.9	641.2	666.1	686.8	702.7	705.4
27.5°	1311.8	1233.8	998.6	676.1	584.9	607.7	635.4	658.8	679.6	696.8	699.9
30°	1331.1	1224.4	912.6	595.6	574.9	600.5	625.3	647.1	666.8	683.7	687.5
32.5°	1358.4	1215.8	813.5	549.4	569.1	593.6	613.9	633.3	648.5	656.1	658.1
35°	1392.3	1204.8	708.2	529.3	565.3	588.0	606.0	616.4	596.7	592.5	597.0
37.5°	1439.6	1194.4	603.2	520.7	562.8	586.0	601.9	575.3	551.1	541.4	544.9
40°	1490.7	1188.5	532.1	513.8	563.9	588.0	584.6	545.2	510.4	490.0	489.3
42.5°	1534.2	1179.5	486.5	509.3	566.6	596.0	561.1	518.6	466.8	454.8	455.1
45°	1563.5	1156.8	462.4	504.5	569.1	597.7	550.1	482.0	445.1	437.5	437.2
47.5°	1575.6	1115.3	446.8	496.9	568.7	583.6	527.6	466.8	429.9	427.8	429.2
50°	1567.7	1047.3	430.9	482.0	560.4	568.7	501.7	453.4	419.5	430.9	439.2
52.5°	1538.3	959.2	411.9	461.7	545.6	551.8	488.6	445.1	411.9	427.1	433.7
55°	1530.7	887.8	387.8	435.1	523.5	521.7	474.8	440.9	406.8	400.9	401.9
57.5°	1520.7	818.0	347.7	387.4	467.5	470.3	461.7	436.1	393.3	391.6	393.3
60°	1321.1	627.1	310.1	334.3	384.0	398.8	446.8	427.1	371.5	364.3	363.9
62.5°	862.9	379.8	275.9	291.4	312.8	330.1	407.5	401.2	347.7	343.2	346.3
65°	464.1	270.7	251.0	260.4	272.1	285.2	337.7	357.4	314.2	298.3	298.7
67.5°	237.2	230.3	232.4	238.9	247.9	254.5	272.4	289.7	268.0	254.5	254.1
70°	203.0	208.6	211.7	215.5	221.3	220.3	222.0	225.1	223.4	216.8	216.5
72.5°	173.0	181.6	182.3	183.0	185.1	180.2	177.1	172.0	172.3	173.3	173.7
75°	131.6	139.8	141.9	140.9	143.0	136.7	132.6	127.4	121.2	120.2	120.9
77.5°	85.6	92.2	95.3	94.6	95.6	90.8	88.7	83.2	76.0	73.2	73.2
80°	51.8	55.6	58.0	58.7	59.7	56.3	52.8	48.0	44.9	41.8	41.8
82.5°	31.4	33.8	35.6	35.6	36.6	32.8	30.0	26.6	25.2	22.4	22.4
85°	15.9	17.6	18.3	18.0	17.3	14.2	13.1	11.4	10.7	9.3	9.3
87.5°	3.8	4.8	4.8	3.5	3.5	1.7	1.0	0.3	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)