

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: P629813

Luminaire Tested: GWS-SA1C-735-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629813  
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-SA1C-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

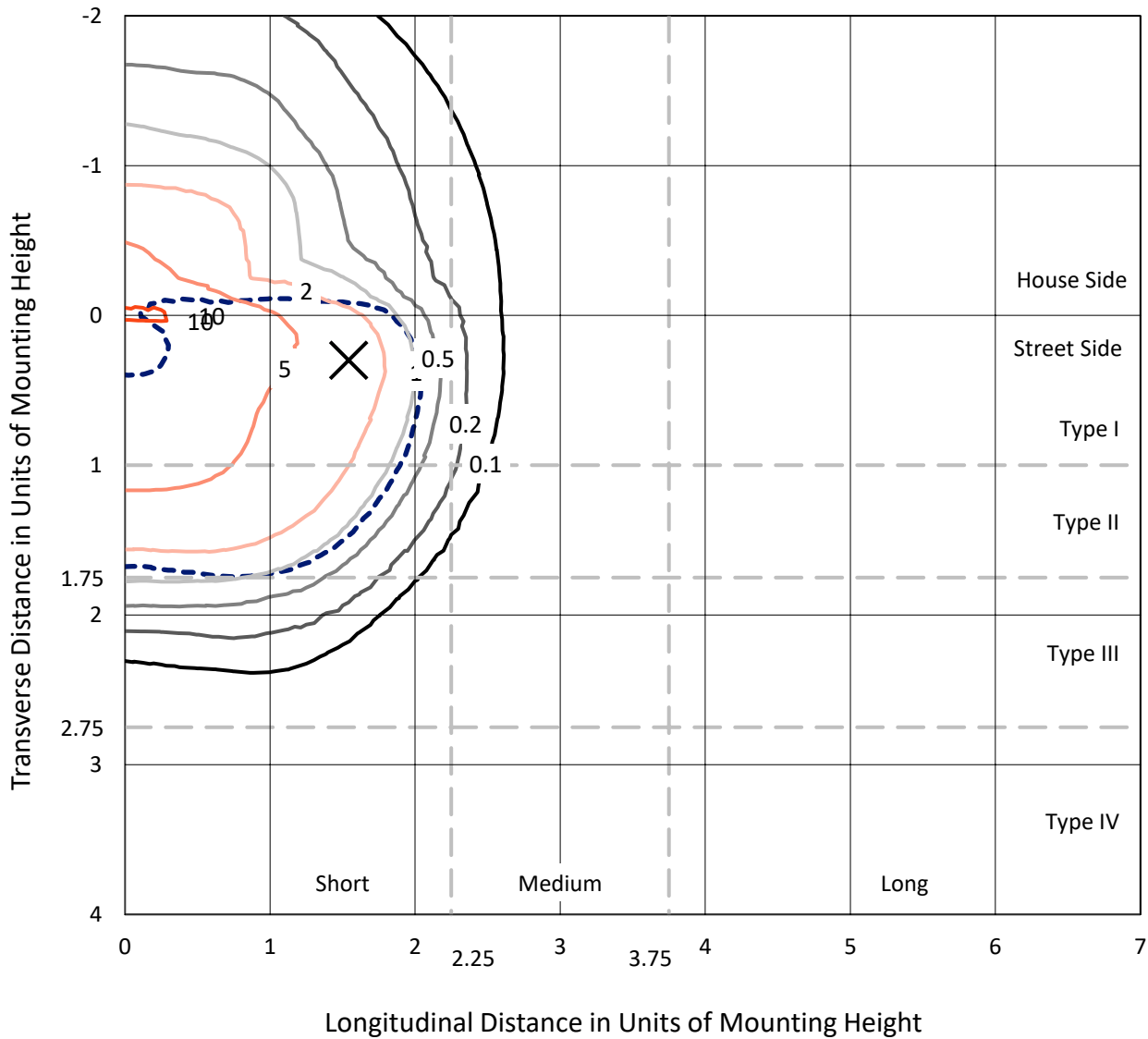
Lumens per Lamp: N/A  
Luminaire Lumens: 4156.3 lumens  
Efficiency: N/A  
Efficacy: 121.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 34.1  
Input Voltage (V): 120  
Input Current (Ain): 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

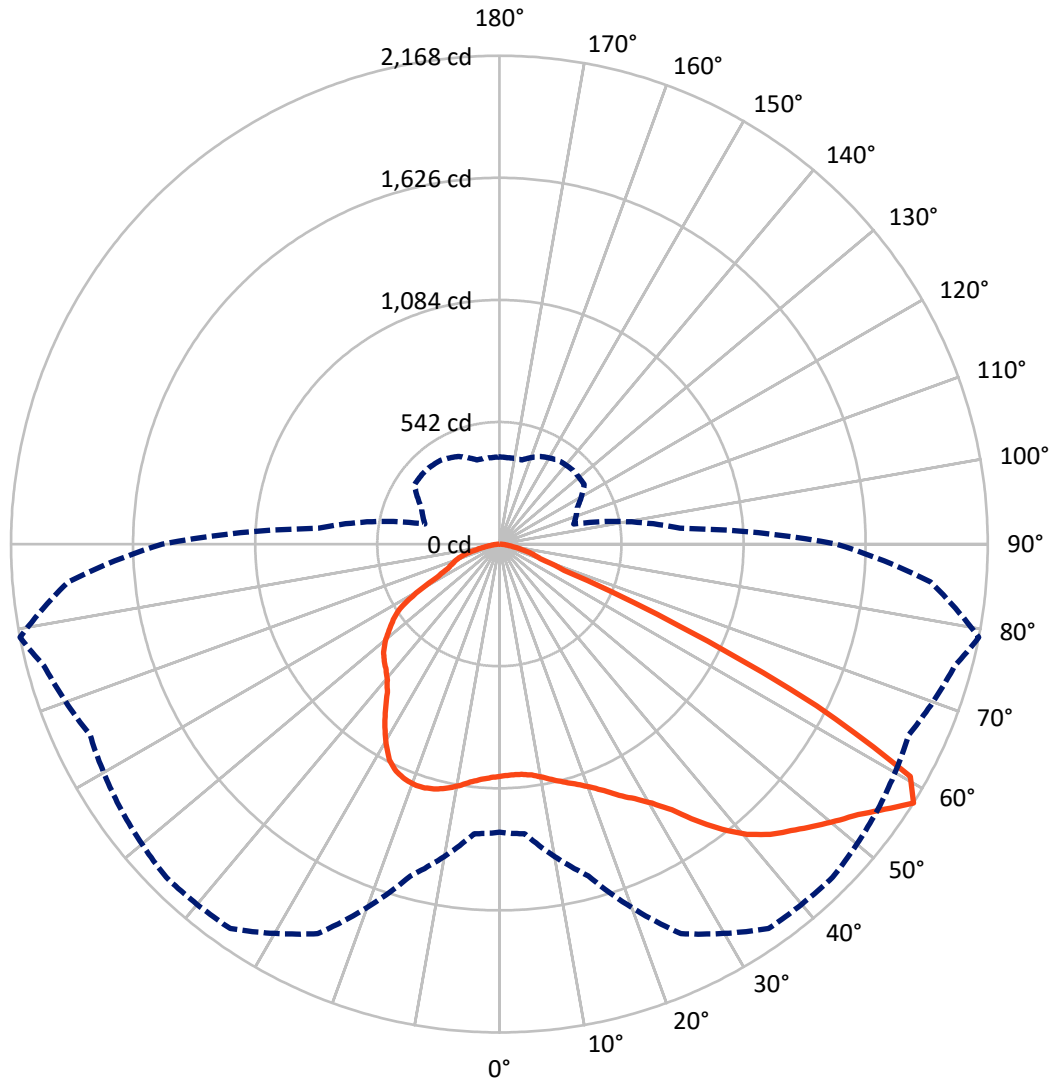
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.4 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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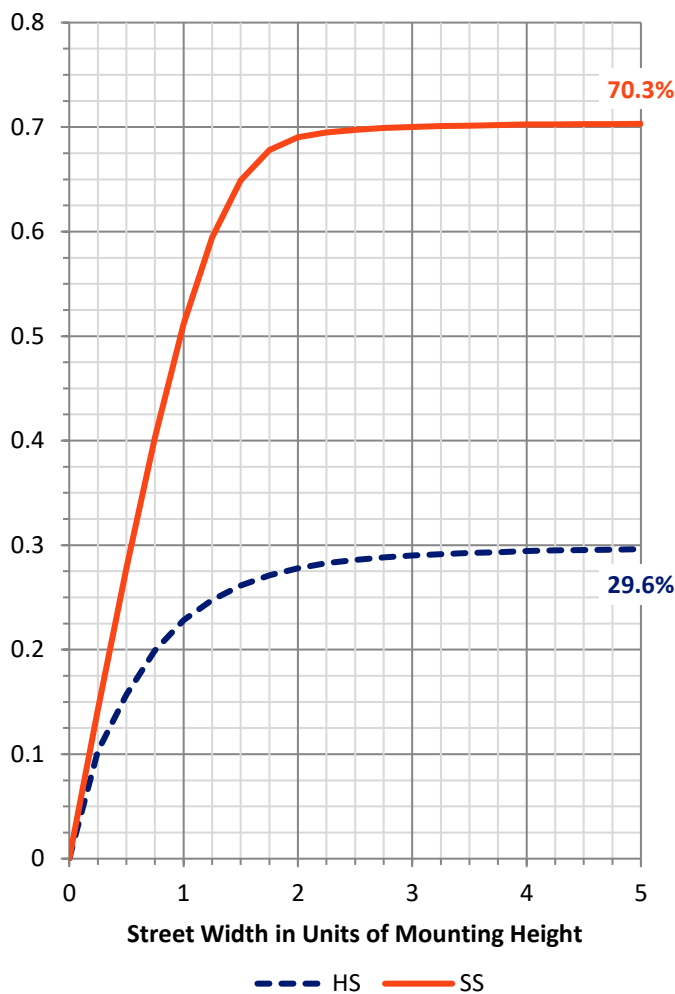
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1235.5	0.0	1235.5
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	2920.8	0.0	2920.8
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	4156.3	0.0	4156.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.4	2.3
10°-20°	265.1	6.4
20°-30°	449.3	10.8
30°-40°	687.8	16.5
40°-50°	917.1	22.1
50°-60°	1059.1	25.5
60°-70°	550.4	13.2
70°-80°	117.0	2.8
80°-90°	15.2	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°	4156.3	100.0
0°-180°	4156.3	100.0

**Coefficient of Utilization**



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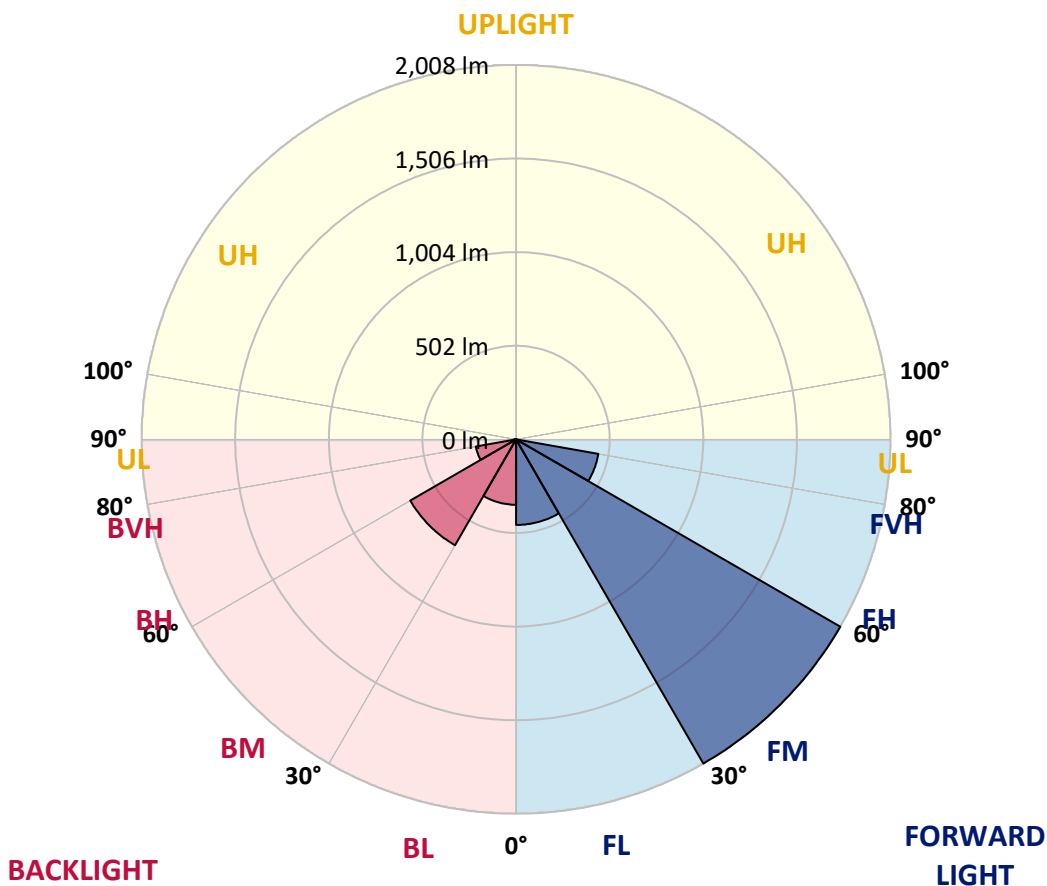
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	458.9	11.0			
FM (30°-60°)	2008.4	48.3			
FH (60°-80°)	448.2	10.8			G0/660
FVH (80°-90°)	5.3	0.1			G0/10
BL (0°-30°)	350.9	8.4	B1/500		
BM (30°-60°)	655.5	15.8	B1/1000		
BH (60°-80°)	219.2	5.3	B1/500		G1/500
BVH (80°-90°)	9.9	0.2			G0/10
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°	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0
2.5°	983.1	981.1	981.8	984.5	994.7	1002.2	1010.0	1017.1	1023.9	1025.9	1027.6
5°	948.1	944.4	945.4	949.8	961.7	974.3	988.2	1005.2	1021.5	1027.0	1034.1
7.5°	923.3	922.6	924.3	931.1	943.7	955.6	973.6	997.7	1025.9	1035.1	1047.7
10°	890.4	889.0	895.8	909.7	930.5	949.5	970.9	999.4	1038.9	1052.5	1071.8
12.5°	864.2	863.5	870.6	890.0	916.5	946.8	976.3	1008.3	1056.2	1074.9	1098.7
15°	879.5	876.4	876.8	890.4	914.1	949.8	989.9	1024.3	1073.5	1097.3	1127.9
17.5°	924.0	918.6	914.5	916.9	930.5	967.5	1010.7	1045.7	1093.6	1121.4	1158.8
20°	985.5	982.5	971.2	963.8	966.8	999.4	1043.3	1075.9	1119.7	1151.0	1191.1
22.5°	1068.1	1060.6	1045.3	1033.4	1024.3	1049.7	1090.2	1118.4	1156.1	1188.7	1230.5
25°	1170.4	1159.5	1135.4	1116.7	1097.0	1123.1	1159.2	1180.6	1206.1	1236.3	1276.1
27.5°	1274.7	1265.5	1238.7	1213.5	1189.1	1205.4	1248.2	1260.4	1257.7	1279.8	1313.8
30°	1385.8	1374.3	1348.8	1321.6	1290.0	1300.5	1338.9	1345.1	1316.2	1334.5	1357.6
32.5°	1503.1	1491.9	1469.8	1438.2	1402.5	1406.6	1417.1	1422.9	1395.3	1405.9	1423.6
35°	1622.4	1611.8	1589.4	1558.1	1532.0	1507.1	1480.6	1503.8	1487.8	1508.2	1506.8
37.5°	1731.4	1720.9	1707.0	1682.8	1638.0	1589.0	1527.9	1556.4	1581.2	1607.1	1602.6
40°	1805.2	1798.0	1801.4	1797.7	1739.9	1643.1	1551.0	1582.3	1649.9	1694.1	1691.7
42.5°	1868.7	1861.6	1881.3	1895.6	1827.6	1693.0	1562.2	1592.1	1693.7	1762.7	1759.3
45°	1896.9	1894.9	1927.5	1972.7	1907.8	1746.1	1591.1	1612.5	1727.0	1815.4	1802.5
47.5°	1863.3	1870.4	1934.7	2011.1	1974.4	1808.9	1650.2	1655.7	1770.5	1872.5	1836.1
50°	1796.3	1812.0	1898.6	2012.1	2023.0	1879.9	1732.1	1718.5	1829.0	1933.3	1853.8
52.5°	1698.8	1715.1	1856.5	2004.3	2050.9	1962.2	1841.2	1821.8	1902.7	1994.1	1856.8
55°	1474.9	1497.0	1760.0	1986.7	2078.1	2036.9	1964.2	1924.8	1997.9	2077.7	1887.1
57.5°	1279.5	1291.0	1524.8	1908.2	2083.5	2092.0	2051.9	2005.0	2092.3	2168.1	1921.1
60°	939.0	941.7	1152.0	1578.9	1916.6	2060.1	2044.8	1975.1	2047.5	2095.7	1765.4
62.5°	530.5	530.8	698.7	1053.8	1431.7	1679.1	1688.6	1627.1	1566.3	1580.6	1228.8
65°	199.1	217.8	319.1	517.9	825.4	991.3	1030.7	1045.0	943.7	880.8	658.9
67.5°	133.2	137.6	186.2	266.4	367.4	424.1	474.4	475.8	348.0	310.3	259.6
70°	101.6	106.0	146.5	190.6	186.2	172.0	185.9	180.8	186.9	192.0	197.4
72.5°	75.8	80.2	113.5	134.6	111.8	110.1	124.7	138.7	151.6	157.0	165.5
75°	50.3	53.7	76.5	72.0	61.8	73.1	91.1	105.0	112.5	118.9	125.4
77.5°	31.9	34.3	40.8	33.0	34.3	42.8	53.0	65.6	72.7	79.2	82.6
80°	14.6	14.3	13.9	15.6	19.4	25.1	31.9	39.4	44.9	47.6	49.6
82.5°	5.8	6.5	7.1	8.5	10.5	13.6	18.0	23.1	27.5	28.2	29.9
85°	2.4	2.7	3.1	3.7	4.8	6.1	7.5	10.5	13.3	14.3	15.3
87.5°	0.0	0.0	0.0	0.0	0.3	0.7	1.0	1.7	3.1	3.4	3.7
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°	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0
2.5°	1036.8	1032.4	1039.9	1045.0	1049.7	1044.6	1042.9	1038.5	1037.8	1037.8	1040.2
5°	1046.3	1043.3	1051.1	1054.2	1053.8	1042.6	1035.8	1027.0	1022.6	1022.6	1023.2
7.5°	1063.3	1061.6	1066.0	1061.3	1050.4	1027.6	1005.2	986.5	974.0	967.5	969.5
10°	1091.5	1089.5	1085.8	1068.1	1036.8	989.6	943.7	909.7	889.3	877.8	878.5
12.5°	1119.1	1115.7	1102.4	1063.3	999.1	924.0	863.8	825.8	803.4	789.8	786.7
15°	1149.3	1140.5	1111.9	1038.9	937.6	843.8	780.9	739.8	715.7	707.5	707.2
17.5°	1178.2	1162.6	1110.9	995.4	863.8	759.9	696.7	671.2	667.1	670.8	671.8
20°	1207.4	1182.3	1099.7	935.2	776.2	676.3	643.6	654.2	669.5	679.7	682.0
22.5°	1237.7	1198.6	1074.2	857.7	683.7	619.9	633.4	656.6	675.6	689.2	690.5
25°	1271.6	1213.9	1036.1	762.9	609.7	604.2	631.1	655.5	675.9	691.6	694.3
27.5°	1291.0	1214.2	982.8	665.4	575.7	598.1	625.3	648.4	668.8	685.8	688.8
30°	1310.0	1205.0	898.2	586.2	565.8	591.0	615.4	636.8	656.2	672.9	676.6
32.5°	1336.9	1196.5	800.6	540.7	560.0	584.2	604.2	623.2	638.2	645.7	647.7
35°	1370.2	1185.7	697.0	521.0	556.3	578.7	596.4	606.6	587.2	583.1	587.6
37.5°	1416.8	1175.5	593.7	512.5	553.9	576.7	592.3	566.2	542.4	532.9	536.3
40°	1467.0	1169.7	523.7	505.7	554.9	578.7	575.3	536.6	502.3	482.2	481.5
42.5°	1509.9	1160.9	478.8	501.3	557.7	586.5	552.2	510.4	459.5	447.6	447.9
45°	1538.8	1138.4	455.0	496.5	560.0	588.2	541.4	474.4	438.0	430.6	430.2
47.5°	1550.6	1097.7	439.7	489.0	559.7	574.3	519.3	459.5	423.1	421.1	422.4
50°	1542.8	1030.7	424.1	474.4	551.5	559.7	493.8	446.2	412.9	424.1	432.3
52.5°	1513.9	944.1	405.4	454.4	536.9	543.0	480.9	438.0	405.4	420.4	426.8
55°	1506.5	873.7	381.6	428.2	515.2	513.5	467.3	434.0	400.3	394.5	395.6
57.5°	1496.6	805.1	342.2	381.3	460.1	462.8	454.4	429.2	387.1	385.4	387.1
60°	1300.2	617.1	305.2	329.0	377.9	392.5	439.7	420.4	365.7	358.5	358.2
62.5°	849.2	373.8	271.5	286.8	307.9	324.9	401.0	394.9	342.2	337.8	340.9
65°	456.7	266.4	247.1	256.2	267.8	280.7	332.4	351.7	309.2	293.6	294.0
67.5°	233.5	226.7	228.7	235.2	244.0	250.5	268.1	285.1	263.7	250.5	250.1
70°	199.8	205.3	208.3	212.1	217.8	216.8	218.5	221.6	219.9	213.4	213.1
72.5°	170.3	178.8	179.4	180.1	182.1	177.4	174.3	169.2	169.6	170.6	170.9
75°	129.5	137.6	139.7	138.7	140.7	134.6	130.5	125.4	119.3	118.3	118.9
77.5°	84.3	90.7	93.8	93.1	94.1	89.4	87.3	81.9	74.8	72.0	72.0
80°	51.0	54.7	57.1	57.8	58.8	55.4	52.0	47.2	44.2	41.1	41.1
82.5°	30.9	33.3	35.0	35.0	36.0	32.3	29.6	26.2	24.8	22.1	22.1
85°	15.6	17.3	18.0	17.7	17.0	13.9	12.9	11.2	10.5	9.2	9.2
87.5°	3.7	4.8	4.8	3.4	3.4	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)