

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: P631626

Luminaire Tested: GWS-SA2B-722-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631626  
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-SA2B-722-U-T3R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

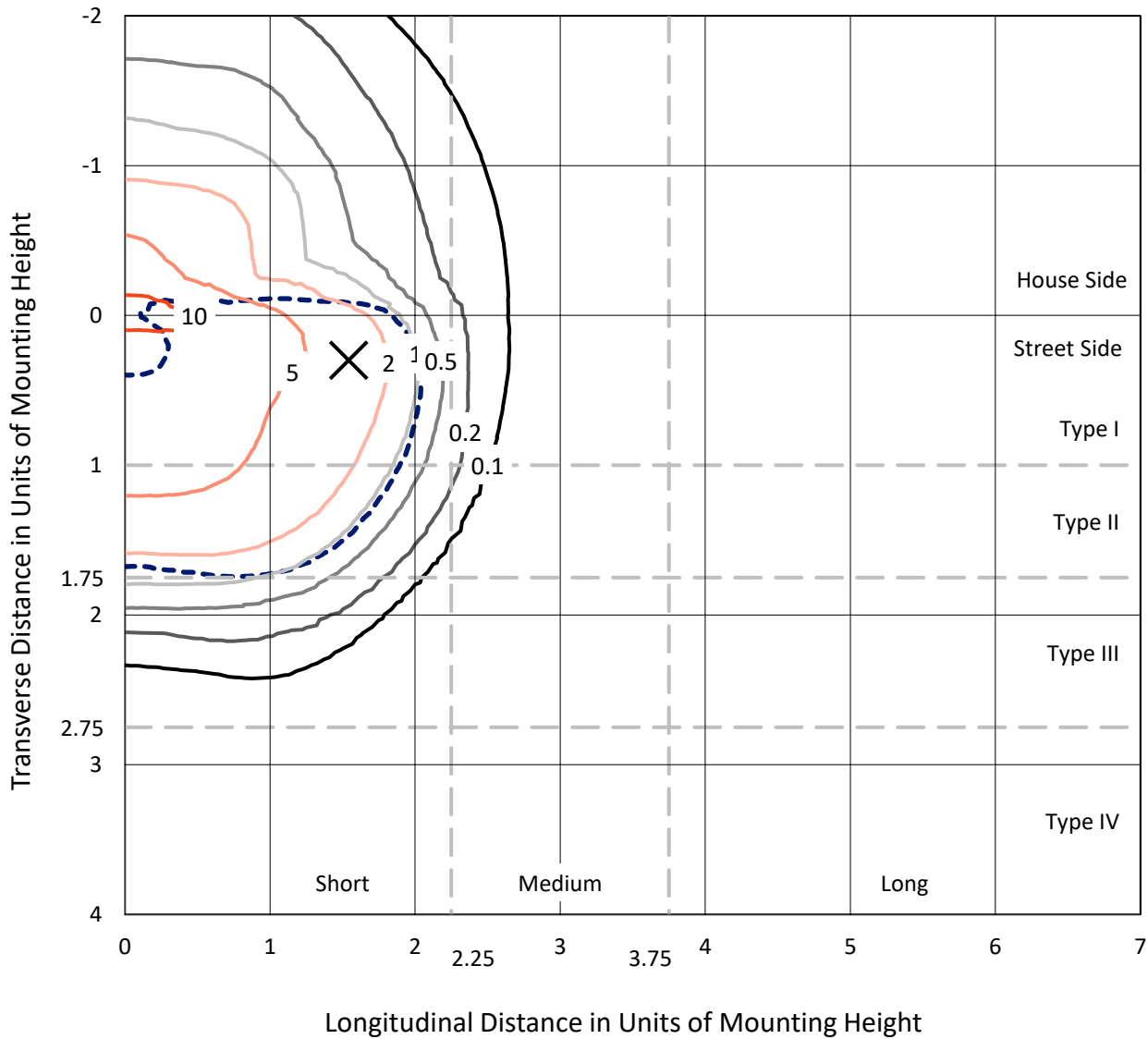
Lumens per Lamp: N/A  
Luminaire Lumens: 4456.8 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

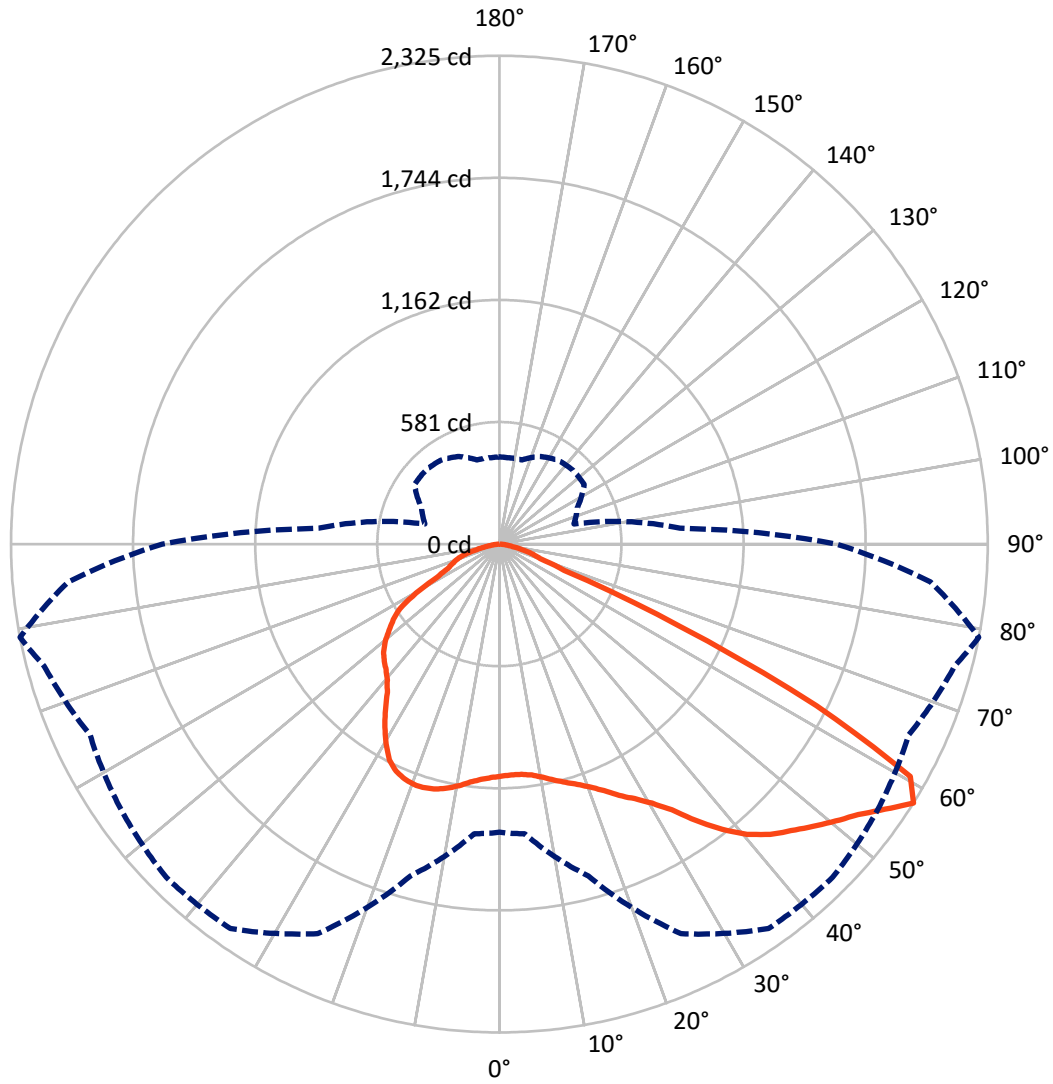
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.1 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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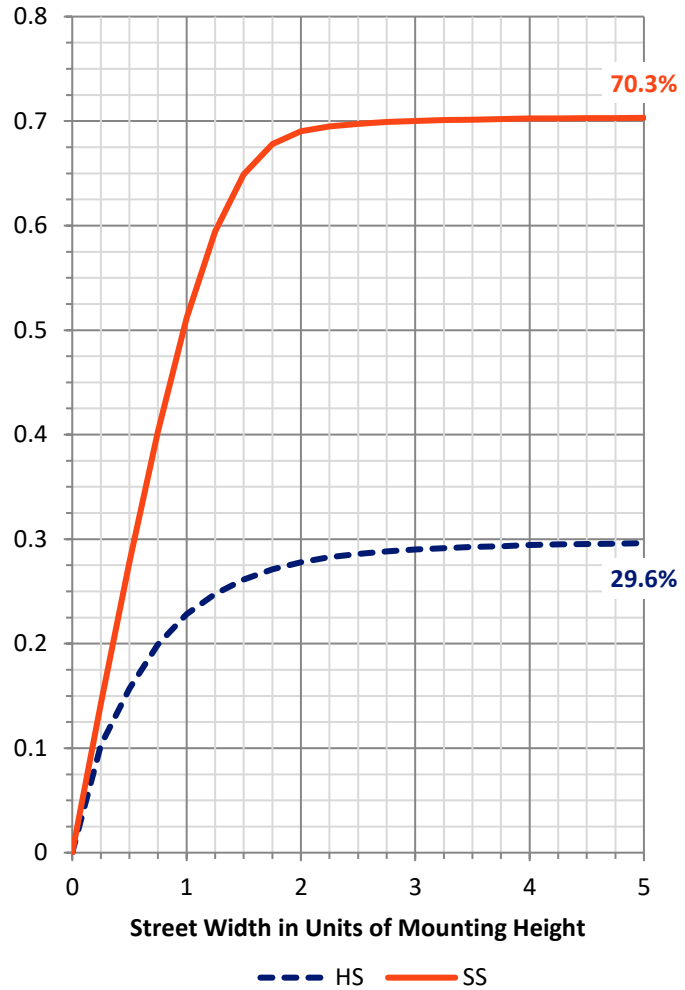
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1324.8	0.0	1324.8
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	3132.0	0.0	3132.0
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	4456.8	0.0	4456.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.3	2.3
10°-20°	284.3	6.4
20°-30°	481.8	10.8
30°-40°	737.5	16.5
40°-50°	983.4	22.1
50°-60°	1135.7	25.5
60°-70°	590.2	13.2
70°-80°	125.5	2.8
80°-90°	16.2	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°	4456.8	100.0
0°-180°	4456.8	100.0

**Coefficient of Utilization**



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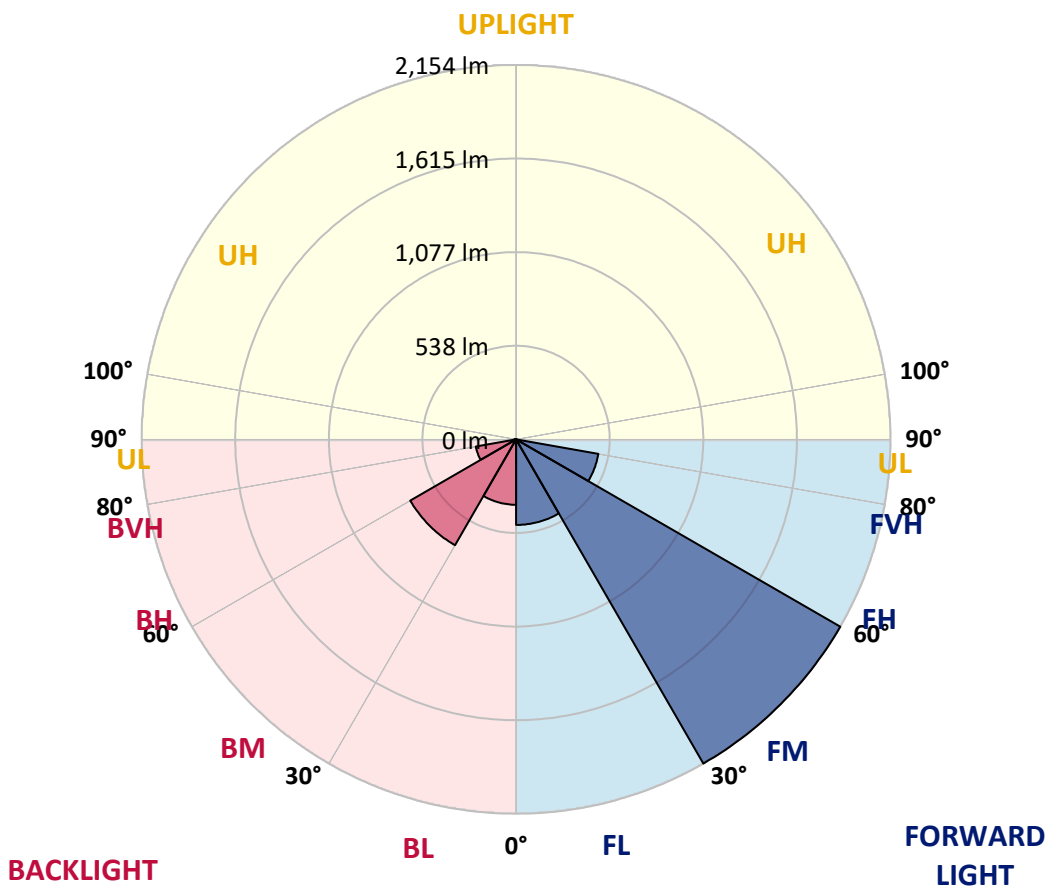
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	492.1	11.0			
FM (30°-60°)	2153.6	48.3			
FH (60°-80°)	480.6	10.8			G0/660
FVH (80°-90°)	5.7	0.1			G0/10
BL (0°-30°)	376.2	8.4	B1/500		
BM (30°-60°)	702.9	15.8	B1/1000		
BH (60°-80°)	235.1	5.3	B1/500		G1/500
BVH (80°-90°)	10.6	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°	1104.5	1104.5	1104.5	1104.5	1104.5	1104.5	1104.5	1104.5	1104.5	1104.5	1104.5
2.5°	1054.2	1052.0	1052.8	1055.7	1066.6	1074.6	1083.0	1090.7	1097.9	1100.1	1101.9
5°	1016.7	1012.7	1013.8	1018.5	1031.3	1044.7	1059.7	1077.9	1095.4	1101.2	1108.9
7.5°	990.1	989.3	991.2	998.5	1011.9	1024.7	1044.0	1069.9	1100.1	1110.0	1123.4
10°	954.7	953.3	960.6	975.5	997.7	1018.1	1041.1	1071.7	1114.0	1128.5	1149.3
12.5°	926.7	925.9	933.6	954.4	982.8	1015.2	1046.9	1081.2	1132.6	1152.6	1178.1
15°	943.1	939.8	940.2	954.7	980.2	1018.5	1061.5	1098.3	1151.1	1176.6	1209.4
17.5°	990.8	985.0	980.6	983.2	997.7	1037.4	1083.7	1121.3	1172.6	1202.5	1242.6
20°	1056.8	1053.5	1041.5	1033.4	1036.7	1071.7	1118.7	1153.7	1200.7	1234.2	1277.2
22.5°	1145.3	1137.3	1120.9	1108.1	1098.3	1125.6	1169.0	1199.2	1239.7	1274.7	1319.5
25°	1255.0	1243.3	1217.5	1197.4	1176.3	1204.3	1243.0	1265.9	1293.3	1325.7	1368.3
27.5°	1366.9	1357.0	1328.2	1301.3	1275.0	1292.5	1338.4	1351.6	1348.6	1372.3	1408.8
30°	1486.0	1473.6	1446.3	1417.2	1383.3	1394.6	1435.7	1442.3	1411.3	1431.0	1455.8
32.5°	1611.7	1599.7	1576.0	1542.1	1503.9	1508.3	1519.6	1525.7	1496.2	1507.5	1526.5
35°	1739.6	1728.4	1704.3	1670.8	1642.7	1616.1	1587.7	1612.5	1595.3	1617.2	1615.8
37.5°	1856.6	1845.3	1830.4	1804.5	1756.4	1703.9	1638.3	1669.0	1695.6	1723.3	1718.5
40°	1935.7	1928.0	1931.7	1927.7	1865.7	1761.9	1663.1	1696.6	1769.2	1816.5	1814.0
42.5°	2003.8	1996.2	2017.3	2032.6	1959.7	1815.4	1675.1	1707.2	1816.2	1890.1	1886.5
45°	2034.1	2031.9	2066.9	2115.3	2045.7	1872.3	1706.1	1729.1	1851.9	1946.6	1932.8
47.5°	1998.0	2005.7	2074.5	2156.5	2117.2	1939.7	1769.5	1775.4	1898.5	2007.8	1968.9
50°	1926.2	1943.0	2035.9	2157.6	2169.3	2015.9	1857.3	1842.8	1961.2	2073.1	1987.8
52.5°	1821.6	1839.1	1990.7	2149.2	2199.2	2104.0	1974.3	1953.6	2040.3	2138.3	1991.1
55°	1581.5	1605.2	1887.2	2130.3	2228.3	2184.2	2106.2	2064.0	2142.3	2227.9	2023.5
57.5°	1372.0	1384.4	1635.1	2046.1	2234.1	2243.2	2200.3	2150.0	2243.6	2324.9	2060.0
60°	1006.8	1009.8	1235.3	1693.0	2055.2	2209.0	2192.6	2117.9	2195.5	2247.3	1893.1
62.5°	568.8	569.2	749.2	1130.0	1535.2	1800.5	1810.7	1744.7	1679.5	1694.8	1317.7
65°	213.5	233.6	342.2	555.3	885.1	1063.0	1105.2	1120.5	1011.9	944.5	706.6
67.5°	142.8	147.6	199.7	285.7	393.9	454.8	508.7	510.2	373.1	332.7	278.4
70°	109.0	113.7	157.1	204.4	199.7	184.4	199.3	193.9	200.4	205.9	211.7
72.5°	81.3	86.0	121.7	144.3	119.9	118.1	133.7	148.7	162.5	168.4	177.5
75°	53.9	57.6	82.0	77.3	66.3	78.3	97.7	112.6	120.6	127.5	134.5
77.5°	34.3	36.8	43.7	35.3	36.8	45.9	56.8	70.3	78.0	84.9	88.5
80°	15.7	15.3	14.9	16.8	20.8	27.0	34.3	42.3	48.1	51.0	53.2
82.5°	6.2	6.9	7.7	9.1	11.3	14.6	19.3	24.8	29.5	30.2	32.1
85°	2.6	2.9	3.3	4.0	5.1	6.6	8.0	11.3	14.2	15.3	16.4
87.5°	0.0	0.0	0.0	0.0	0.4	0.7	1.1	1.8	3.3	3.6	4.0
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°	1104.5	1104.5	1104.5	1104.5	1104.5	1104.5	1104.5	1104.5	1104.5	1104.5	1104.5
2.5°	1111.8	1107.0	1115.1	1120.5	1125.6	1120.2	1118.3	1113.6	1112.9	1112.9	1115.4
5°	1122.0	1118.7	1127.1	1130.4	1130.0	1118.0	1110.7	1101.2	1096.5	1096.5	1097.2
7.5°	1140.2	1138.4	1143.1	1138.0	1126.4	1101.9	1077.9	1057.9	1044.4	1037.4	1039.6
10°	1170.5	1168.3	1164.3	1145.3	1111.8	1061.1	1011.9	975.5	953.6	941.2	942.0
12.5°	1200.0	1196.3	1182.1	1140.2	1071.3	990.8	926.3	885.5	861.4	846.9	843.6
15°	1232.4	1222.9	1192.3	1114.0	1005.4	904.8	837.4	793.3	767.4	758.7	758.3
17.5°	1263.4	1246.6	1191.2	1067.3	926.3	814.8	747.0	719.7	715.3	719.3	720.4
20°	1294.7	1267.7	1179.2	1002.8	832.3	725.2	690.2	701.5	717.9	728.8	731.4
22.5°	1327.1	1285.2	1151.9	919.7	733.2	664.7	679.2	704.0	724.4	739.0	740.5
25°	1363.6	1301.6	1111.1	818.1	653.7	647.9	676.7	702.9	724.8	741.6	744.5
27.5°	1384.4	1302.0	1053.8	713.5	617.3	641.3	670.5	695.3	717.1	735.4	738.6
30°	1404.8	1292.2	963.1	628.6	606.7	633.7	659.9	682.9	703.7	721.5	725.5
32.5°	1433.6	1283.1	858.5	579.8	600.5	626.4	647.9	668.3	684.3	692.4	694.5
35°	1469.3	1271.4	747.4	558.6	596.5	620.6	639.5	650.5	629.7	625.3	630.0
37.5°	1519.2	1260.5	636.6	549.5	594.0	618.4	635.2	607.1	581.6	571.4	575.0
40°	1573.1	1254.3	561.5	542.2	595.1	620.6	616.9	575.4	538.6	517.1	516.4
42.5°	1619.0	1244.8	513.4	537.5	598.0	629.0	592.2	547.3	492.7	479.9	480.3
45°	1650.0	1220.7	487.9	532.4	600.5	630.8	580.5	508.7	469.7	461.7	461.3
47.5°	1662.8	1177.0	471.5	524.4	600.2	615.8	556.8	492.7	453.7	451.5	452.9
50°	1654.4	1105.2	454.8	508.7	591.4	600.2	529.5	478.5	442.7	454.8	463.5
52.5°	1623.4	1012.3	434.7	487.2	575.8	582.3	515.6	469.7	434.7	450.8	457.7
55°	1615.4	936.9	409.2	459.1	552.4	550.6	501.1	465.3	429.3	423.1	424.2
57.5°	1604.8	863.3	367.0	408.9	493.4	496.3	487.2	460.2	415.1	413.2	415.1
60°	1394.2	661.8	327.2	352.7	405.2	420.9	471.5	450.8	392.1	384.4	384.1
62.5°	910.6	400.8	291.2	307.6	330.1	348.4	430.0	423.4	367.0	362.2	365.5
65°	489.8	285.7	264.9	274.8	287.1	301.0	356.4	377.2	331.6	314.8	315.2
67.5°	250.3	243.1	245.2	252.2	261.6	268.6	287.5	305.7	282.8	268.6	268.2
70°	214.3	220.1	223.4	227.4	233.6	232.5	234.3	237.6	235.8	228.8	228.5
72.5°	182.6	191.7	192.4	193.1	195.3	190.2	186.9	181.5	181.8	182.9	183.3
75°	138.8	147.6	149.8	148.7	150.9	144.3	139.9	134.5	127.9	126.8	127.5
77.5°	90.4	97.3	100.6	99.8	100.9	95.8	93.7	87.8	80.2	77.3	77.3
80°	54.7	58.7	61.2	61.9	63.0	59.4	55.8	50.7	47.4	44.1	44.1
82.5°	33.2	35.7	37.5	37.5	38.6	34.6	31.7	28.1	26.6	23.7	23.7
85°	16.8	18.6	19.3	18.9	18.2	14.9	13.8	12.0	11.3	9.8	9.8
87.5°	4.0	5.1	5.1	3.6	3.6	1.8	1.1	0.4	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)