

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: P631072

Luminaire Tested: GWS-SA1E-830-U-T3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631072  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1E-830-U-T3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

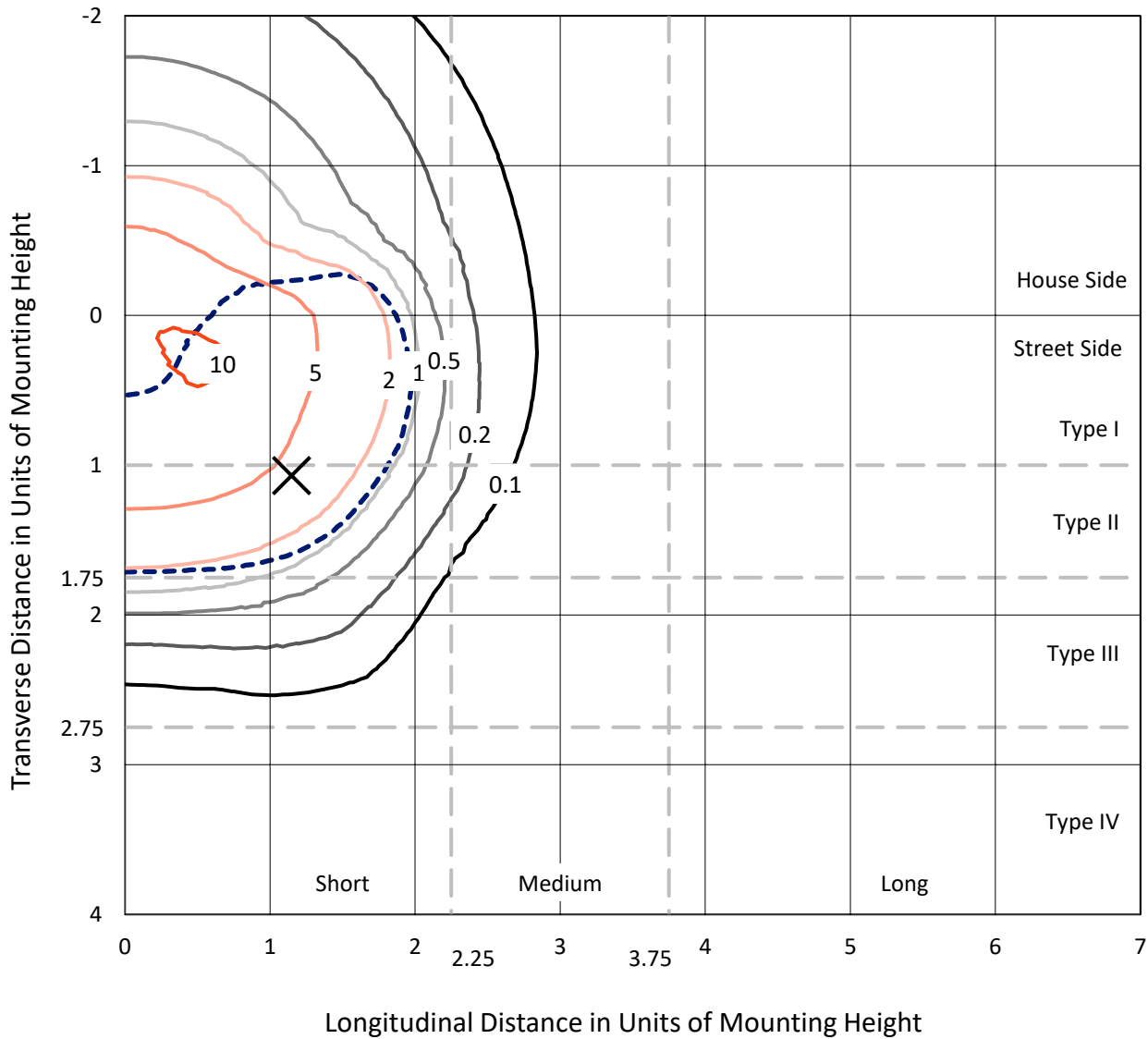
Lumens per Lamp: N/A  
Luminaire Lumens: 5137.7 lumens  
Efficiency: N/A  
Efficacy: 88.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 58.4  
Input Voltage (V): 120  
Input Current (Ain): 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

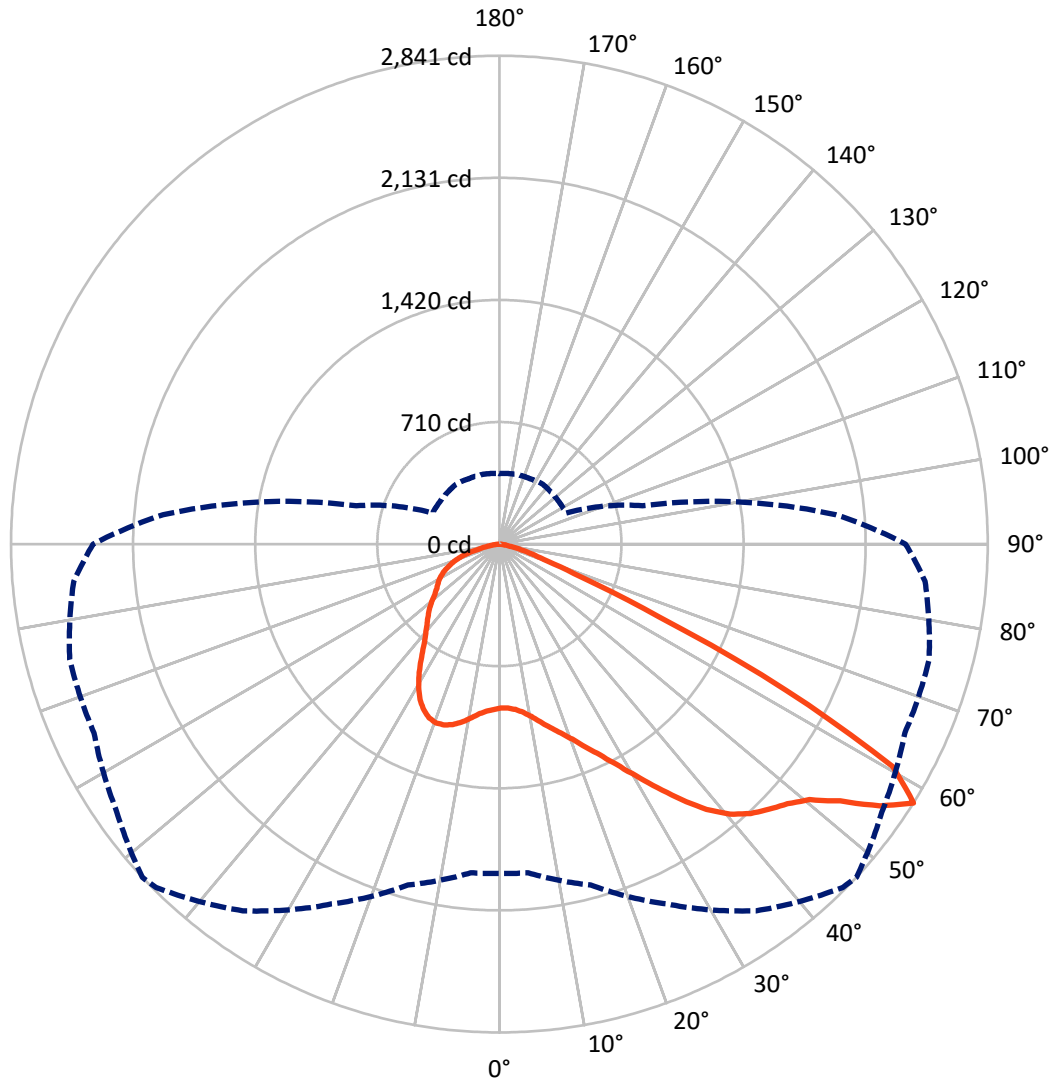
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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CATALOG NUMBER: GWS-SA1E-830-U-T3-W-GRSWH

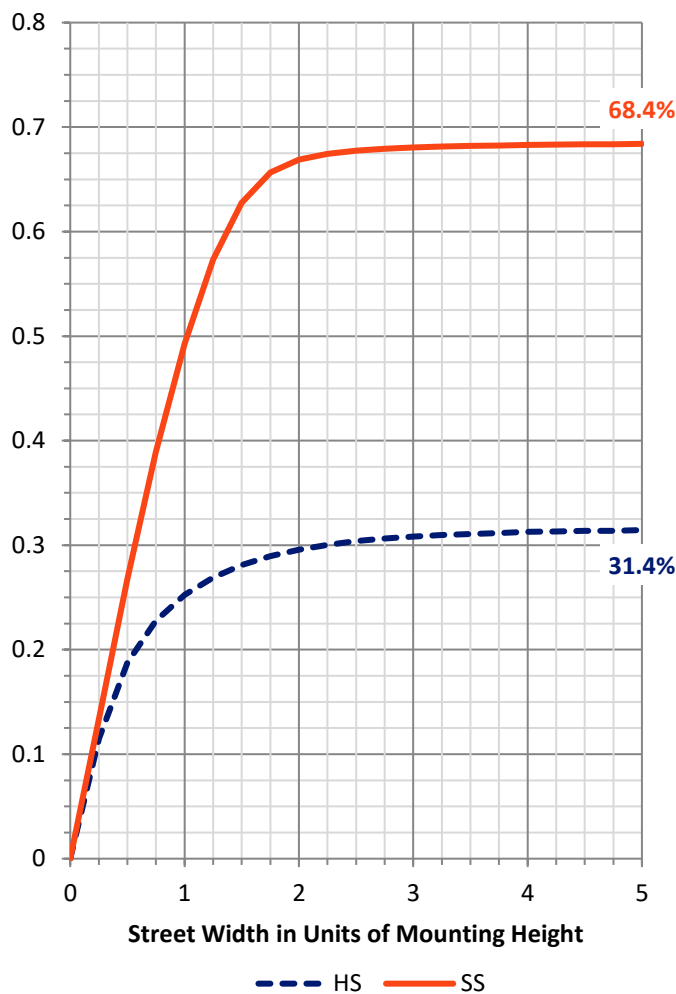
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1626.1	0.0	1626.1
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	3511.6	0.0	3511.6
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	5137.7	0.0	5137.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.0	1.8
10°-20°	309.1	6.0
20°-30°	556.6	10.8
30°-40°	840.6	16.4
40°-50°	1132.0	22.0
50°-60°	1360.2	26.5
60°-70°	662.5	12.9
70°-80°	163.2	3.2
80°-90°	19.6	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°	5137.7	100.0
0°-180°	5137.7	100.0

**Coefficient of Utilization**



REPORT NUMBER: P631072

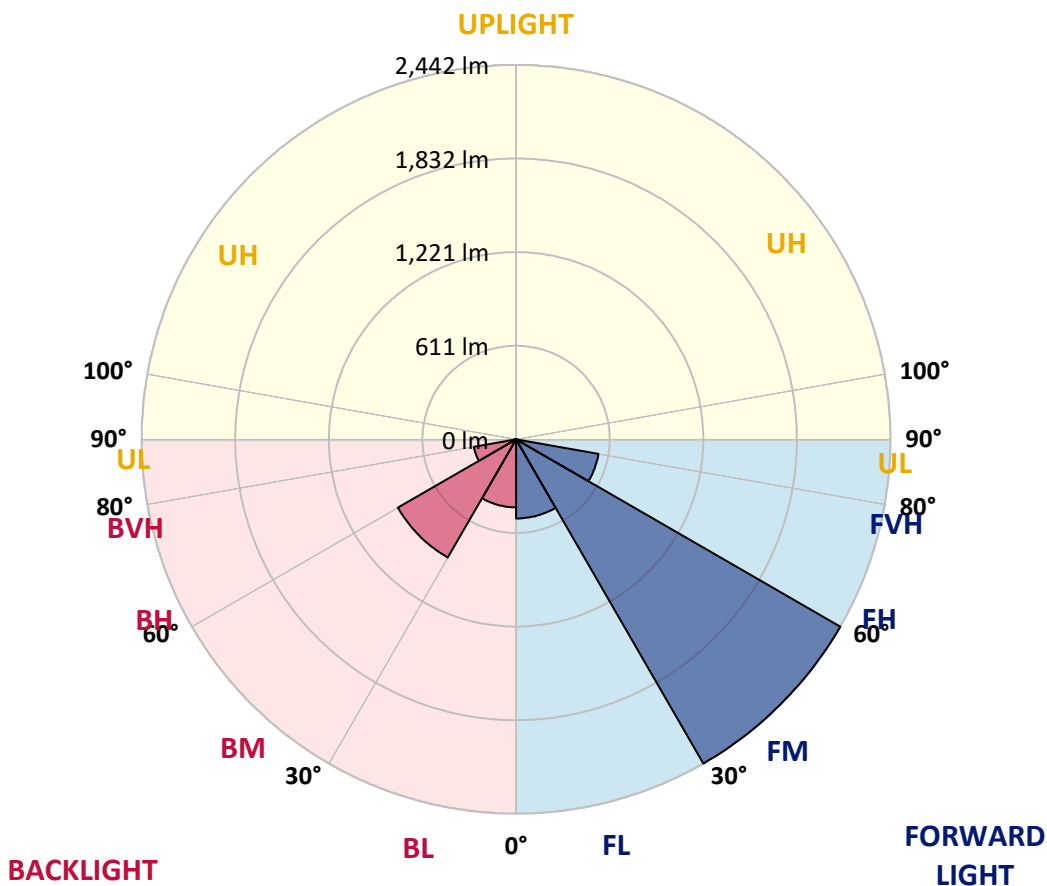
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	516.1	10.0			
FM (30°-60°)	2442.2	47.5			
FH (60°-80°)	546.0	10.6			G0/660
FVH (80°-90°)	7.4	0.1			G0/10
BL (0°-30°)	443.6	8.6	B1/500		
BM (30°-60°)	890.6	17.3	B1/1000		
BH (60°-80°)	279.7	5.4	B1/500		G1/500
BVH (80°-90°)	12.2	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°	47°	55°	65°	75°	85°
0°	952.8	952.8	952.8	952.8	952.8	952.8	952.8	952.8	952.8	952.8	952.8
2.5°	951.1	950.6	950.6	953.2	953.2	954.1	955.4	956.7	957.1	955.0	950.2
5°	961.4	961.4	961.4	963.6	963.6	964.4	966.2	966.6	966.2	962.7	958.0
7.5°	977.8	977.8	978.3	980.8	983.0	984.3	987.3	986.9	985.6	980.0	973.9
10°	1004.6	1005.9	1007.2	1010.2	1014.5	1017.5	1019.7	1019.7	1018.0	1009.3	1001.6
12.5°	1042.5	1044.3	1045.6	1048.2	1051.6	1056.8	1061.5	1061.5	1059.4	1048.6	1036.9
15°	1087.0	1088.7	1088.3	1089.2	1095.6	1103.0	1106.8	1109.4	1110.3	1095.2	1077.1
17.5°	1137.9	1139.6	1137.9	1135.3	1136.2	1147.8	1154.7	1164.2	1169.8	1149.6	1120.7
20°	1184.1	1182.4	1182.4	1184.1	1186.7	1200.9	1211.3	1226.8	1233.7	1209.1	1164.2
22.5°	1232.8	1236.7	1235.0	1235.0	1245.4	1269.1	1281.6	1301.9	1309.2	1277.3	1216.9
25°	1295.9	1299.3	1298.4	1299.3	1311.4	1345.0	1357.6	1395.1	1402.4	1356.7	1275.1
27.5°	1364.9	1370.5	1373.1	1372.2	1391.6	1435.7	1451.2	1503.4	1516.8	1445.6	1337.3
30°	1454.7	1460.7	1462.8	1462.0	1484.9	1544.8	1562.5	1622.1	1641.1	1550.9	1416.2
32.5°	1558.6	1564.7	1571.2	1573.7	1603.1	1664.4	1689.8	1751.5	1778.7	1672.6	1511.6
35°	1661.8	1667.0	1679.5	1699.8	1739.9	1802.5	1824.9	1885.7	1912.1	1799.0	1626.8
37.5°	1775.7	1779.2	1789.9	1818.0	1875.8	1935.4	1957.8	2016.1	2019.1	1921.1	1757.1
40°	1900.4	1900.4	1898.3	1925.9	1986.3	2046.3	2065.7	2099.3	2081.6	2015.2	1884.0
42.5°	2006.1	2004.4	2006.1	2032.0	2076.9	2125.7	2142.5	2136.0	2113.6	2087.3	1998.8
45°	2101.5	2102.8	2118.3	2138.2	2161.5	2190.4	2200.3	2163.6	2143.4	2145.1	2090.7
47.5°	2166.2	2167.5	2203.8	2237.0	2251.2	2260.3	2256.0	2205.1	2194.7	2214.1	2161.5
50°	2174.9	2181.8	2244.3	2312.5	2347.9	2349.2	2337.1	2275.0	2271.9	2294.0	2199.5
52.5°	2176.6	2183.5	2261.6	2384.6	2476.5	2495.9	2482.1	2417.4	2385.9	2363.9	2246.1
55°	2170.1	2177.9	2264.2	2432.9	2609.0	2686.6	2687.9	2596.4	2495.9	2481.2	2379.0
57.5°	1915.9	1919.0	2052.7	2309.9	2603.8	2823.9	2840.7	2716.4	2601.6	2587.8	2485.5
60°	1334.7	1346.8	1492.2	1831.8	2187.4	2575.3	2629.7	2593.4	2516.6	2416.1	2132.6
62.5°	668.4	678.8	824.6	1145.7	1508.6	1815.0	1873.2	1911.6	1929.8	1821.9	1452.1
65°	287.8	295.6	386.2	598.5	854.0	1002.0	1022.3	1068.4	1181.5	1054.2	782.3
67.5°	192.5	197.6	243.8	365.1	503.2	512.6	509.6	519.5	544.1	449.2	353.4
70°	147.6	151.9	183.0	267.5	361.6	309.4	293.0	265.8	288.7	294.3	286.5
72.5°	107.0	110.5	133.8	182.5	226.5	197.6	195.0	208.9	239.9	248.6	243.8
75°	69.0	70.8	85.0	100.1	116.9	126.9	132.0	157.1	188.6	195.0	189.4
77.5°	46.2	47.5	55.7	64.3	66.5	66.9	68.6	79.8	101.4	113.5	112.2
80°	24.2	24.2	27.2	27.2	31.1	37.1	38.8	46.2	56.1	62.1	62.6
82.5°	9.5	9.9	11.7	12.9	15.5	19.0	20.3	24.2	29.3	33.7	37.5
85°	3.9	4.3	4.7	5.6	6.9	8.6	9.1	10.4	13.8	17.3	19.4
87.5°	0.0	0.0	0.4	0.4	0.9	1.3	1.3	1.7	2.2	3.9	5.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P631072

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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	952.8	952.8	952.8	952.8	952.8	952.8	952.8	952.8	952.8	952.8	952.8
2.5°	955.8	950.2	955.8	957.5	962.3	964.0	961.0	960.6	960.6	956.2	955.0
5°	962.3	957.1	962.7	965.3	972.2	976.5	977.4	980.8	983.0	981.3	980.8
7.5°	978.3	971.8	977.8	981.7	990.8	997.7	1000.7	1008.5	1014.1	1013.2	1012.8
10°	1006.3	997.7	1004.6	1011.0	1021.0	1029.2	1029.6	1033.9	1039.5	1037.8	1036.9
12.5°	1038.7	1030.5	1038.2	1044.7	1056.4	1059.8	1054.2	1052.5	1053.3	1051.2	1049.5
15°	1078.4	1066.7	1073.6	1081.0	1087.4	1083.5	1071.5	1066.7	1066.3	1063.3	1061.5
17.5°	1118.1	1103.4	1108.6	1112.5	1109.4	1097.4	1082.2	1074.1	1070.2	1064.1	1062.4
20°	1157.3	1138.8	1137.9	1134.9	1121.1	1099.1	1078.8	1062.4	1052.5	1044.3	1041.3
22.5°	1202.2	1176.3	1163.4	1149.6	1119.4	1083.5	1052.9	1029.6	1013.6	1003.3	999.8
25°	1250.5	1213.9	1187.1	1159.5	1102.1	1050.3	1007.6	975.7	956.7	945.5	941.6
27.5°	1298.4	1248.0	1207.8	1160.8	1067.6	1002.4	945.0	901.9	882.9	873.8	870.8
30°	1363.2	1293.3	1232.4	1144.0	1022.3	936.0	864.3	820.7	808.2	801.8	799.2
32.5°	1437.8	1350.7	1265.2	1108.6	964.4	858.3	782.8	752.6	743.9	731.4	731.0
35°	1536.2	1432.6	1296.3	1056.4	891.5	775.0	720.2	698.6	683.1	663.2	661.5
37.5°	1651.0	1534.9	1313.1	989.9	806.5	706.4	673.6	649.4	624.4	598.1	594.6
40°	1769.7	1654.4	1314.4	911.4	723.2	661.1	633.5	602.0	570.9	541.6	537.7
42.5°	1894.4	1765.8	1291.5	820.7	655.0	621.8	593.8	554.1	519.1	499.3	497.1
45°	2005.7	1855.5	1239.8	725.4	604.6	589.0	553.2	510.5	491.9	477.7	474.7
47.5°	2093.3	1915.1	1169.8	639.9	563.6	555.4	508.8	486.8	472.5	459.6	456.5
50°	2136.5	1928.5	1078.8	570.5	525.6	515.7	483.7	466.9	457.4	447.1	444.5
52.5°	2190.0	1943.6	1000.3	512.2	488.5	475.1	463.0	449.6	442.7	436.3	434.1
55°	2312.9	2000.5	958.8	465.6	453.1	447.1	445.3	434.1	432.0	427.6	423.8
57.5°	2363.0	1963.8	860.9	427.6	425.0	425.9	430.2	419.9	417.7	412.5	409.9
60°	1900.4	1484.4	583.0	394.8	401.7	407.4	411.7	401.3	398.3	397.4	394.0
62.5°	1217.7	913.1	406.9	364.2	374.6	381.5	384.1	374.1	372.0	378.9	379.3
65°	633.9	497.5	330.1	331.4	340.0	350.4	355.6	352.1	351.3	358.6	359.0
67.5°	323.6	304.2	287.8	292.6	299.5	312.9	324.9	340.0	345.2	346.1	346.5
70°	275.7	267.1	258.9	261.9	269.3	276.6	288.3	295.6	287.0	284.8	283.9
72.5°	234.7	228.3	224.4	227.8	231.7	230.4	227.0	230.4	231.7	232.2	232.6
75°	182.5	177.8	174.8	175.2	175.2	170.4	164.0	160.1	155.8	152.3	152.3
77.5°	111.8	112.6	115.6	115.2	114.8	113.1	106.6	103.1	92.8	89.8	89.8
80°	63.9	65.2	68.2	69.0	69.0	66.9	60.4	56.5	51.8	49.6	49.2
82.5°	38.8	40.6	42.3	43.2	43.6	41.0	35.4	32.4	29.8	27.6	27.6
85°	20.3	21.1	22.9	23.3	22.0	19.4	16.4	15.1	12.5	12.1	12.1
87.5°	5.6	6.0	6.9	5.6	5.2	3.9	2.2	1.7	0.9	0.4	0.4
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)