

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: P630338

Luminaire Tested: GWS-SA1D-740-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630338  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1D-740-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

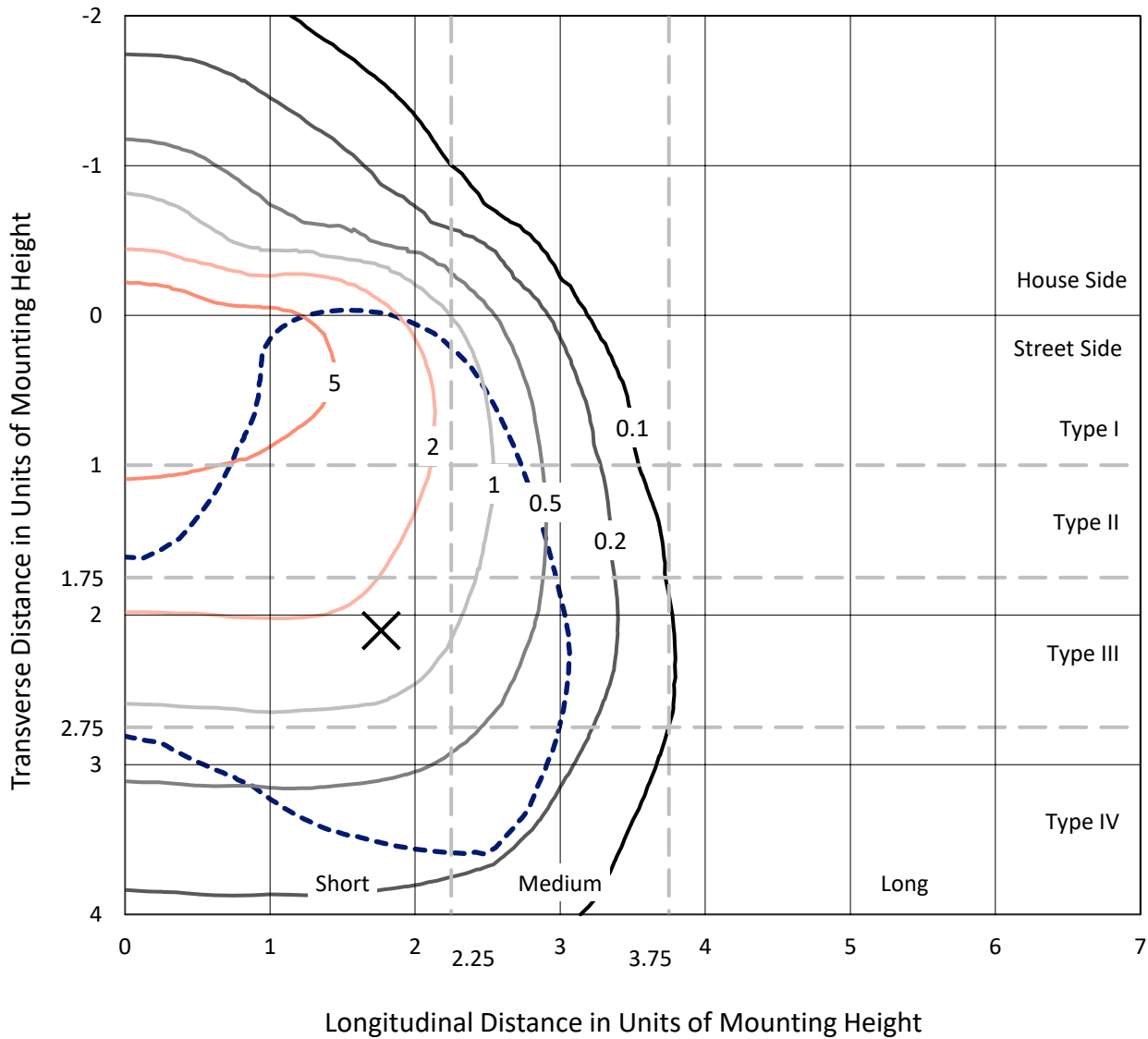
Lumens per Lamp: N/A  
Luminaire Lumens: 5823.6 lumens  
Efficiency: N/A  
Efficacy: 131.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 44.3  
Input Voltage (V): 120  
Input Current (Ain): 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

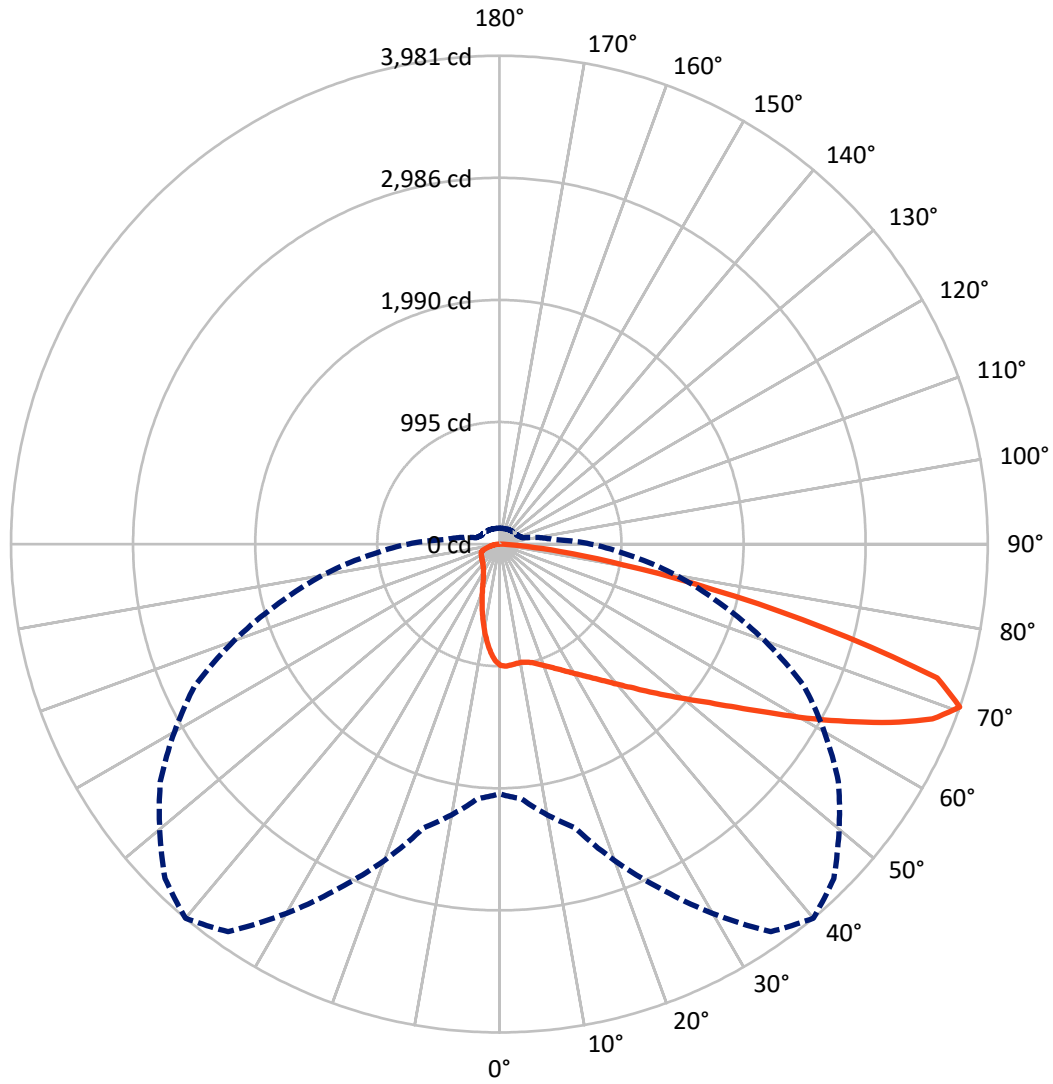
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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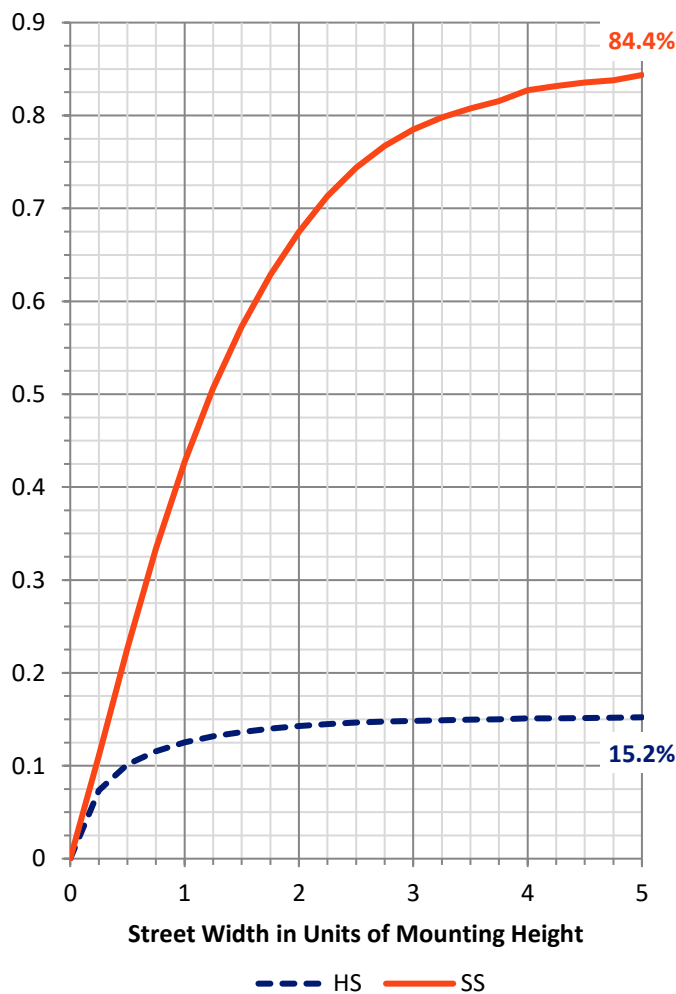
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	897.0	0.0	897.0
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	4926.6	0.0	4926.6
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	5823.6	0.0	5823.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.4	1.5
10°-20°	227.7	3.9
20°-30°	357.6	6.1
30°-40°	537.6	9.2
40°-50°	829.8	14.2
50°-60°	1232.3	21.2
60°-70°	1553.3	26.7
70°-80°	898.3	15.4
80°-90°	99.7	1.7
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°	5823.6	100.0
0°-180°	5823.6	100.0

**Coefficient of Utilization**



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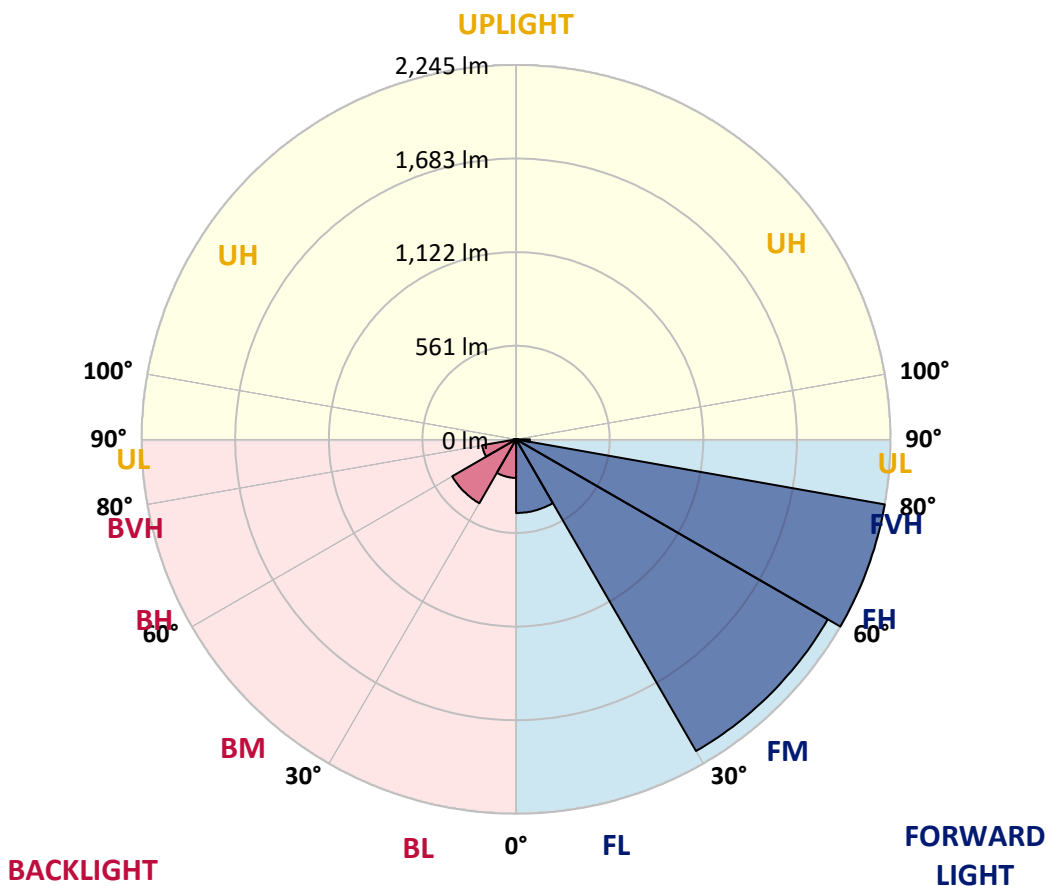
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	441.5	7.6			
FM (30°-60°)	2157.6	37.0			
FH (60°-80°)	2244.6	38.5			G2/5000
FVH (80°-90°)	83.0	1.4			G1/100
BL (0°-30°)	231.2	4.0	B1/500		
BM (30°-60°)	442.1	7.6	B1/1000		
BH (60°-80°)	207.0	3.6	B1/500		G1/500
BVH (80°-90°)	16.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	988.9	988.9	988.9	988.9	988.9	988.9	988.9	988.9	988.9	988.9	988.9
2.5°	995.0	996.7	998.0	999.8	998.9	996.3	998.5	998.5	993.7	988.5	983.7
5°	996.3	998.5	998.0	997.6	994.1	989.8	989.8	987.2	978.9	970.7	962.8
7.5°	993.7	993.3	992.8	991.5	987.6	982.8	982.0	976.7	965.9	954.6	943.3
10°	982.0	981.5	982.8	985.9	985.0	980.7	980.7	975.9	963.3	949.4	934.6
12.5°	972.4	972.4	977.6	985.9	988.9	987.2	987.6	984.1	969.8	953.3	935.9
15°	973.7	974.1	985.4	998.9	1004.6	1003.3	1003.7	999.8	983.7	967.2	943.7
17.5°	982.4	984.6	1004.1	1022.8	1030.2	1028.5	1025.4	1018.9	1000.7	982.0	953.3
20°	1000.7	1004.1	1029.3	1052.8	1061.5	1057.6	1052.4	1039.3	1019.3	998.9	963.7
22.5°	1036.7	1038.9	1066.7	1089.8	1096.7	1091.9	1081.5	1062.8	1039.8	1018.5	976.3
25°	1087.6	1090.2	1116.7	1138.0	1136.3	1130.6	1116.3	1093.2	1065.9	1043.2	994.6
27.5°	1148.0	1152.4	1178.4	1195.4	1184.1	1175.8	1159.7	1131.9	1101.1	1080.6	1022.4
30°	1214.1	1215.8	1238.0	1254.9	1237.6	1226.3	1206.7	1176.7	1148.9	1133.7	1064.1
32.5°	1278.0	1279.7	1298.8	1308.4	1290.2	1281.9	1264.9	1233.2	1213.6	1205.4	1126.3
35°	1345.4	1344.9	1360.6	1368.8	1350.1	1346.7	1329.3	1304.9	1301.5	1312.3	1217.1
37.5°	1412.7	1408.8	1417.1	1427.9	1417.5	1421.0	1409.7	1401.4	1414.9	1443.2	1338.0
40°	1466.6	1466.6	1475.3	1488.8	1492.3	1507.5	1501.0	1511.8	1555.3	1622.7	1487.5
42.5°	1514.5	1514.9	1533.1	1554.0	1579.2	1602.7	1607.9	1636.2	1726.1	1831.8	1675.3
45°	1564.4	1564.9	1589.7	1620.1	1673.5	1718.3	1728.8	1792.2	1920.9	2049.6	1879.2
47.5°	1622.3	1617.5	1651.8	1702.7	1778.7	1843.1	1870.0	1960.0	2122.6	2280.8	2071.3
50°	1687.5	1677.5	1715.7	1803.5	1897.4	1985.7	2030.9	2133.9	2339.1	2494.2	2252.1
52.5°	1760.9	1755.3	1795.3	1902.2	2045.6	2147.4	2208.6	2343.8	2549.4	2706.8	2395.6
55°	1852.2	1838.7	1896.5	2032.6	2219.5	2349.1	2421.6	2551.6	2779.4	2899.8	2505.1
57.5°	1952.2	1937.4	2014.8	2195.6	2445.6	2587.7	2678.5	2785.5	2995.9	3047.6	2569.4
60°	2060.0	2055.2	2146.9	2386.9	2715.1	2880.2	2945.9	3042.8	3184.1	3133.2	2553.4
62.5°	2158.7	2156.9	2290.4	2594.2	3000.6	3182.3	3234.5	3260.2	3319.7	3127.6	2425.6
65°	2262.5	2277.3	2457.7	2834.6	3328.0	3506.2	3527.9	3462.7	3365.4	2979.3	2163.9
67.5°	2275.6	2304.3	2562.9	3059.8	3638.3	3806.6	3789.2	3539.7	3230.6	2566.8	1696.2
70°	2035.2	2085.2	2395.1	3094.1	3857.0	3980.9	3855.2	3374.0	2741.6	1859.6	1066.7
72.5°	1700.5	1743.5	2017.4	2638.6	3574.9	3732.7	3562.7	2855.9	1937.4	1066.7	543.4
75°	1323.6	1373.6	1626.2	2097.4	2676.4	2739.4	2654.2	1991.7	1065.0	439.9	246.9
77.5°	807.6	843.7	1040.2	1421.0	1872.6	1778.3	1507.1	1116.7	467.3	210.8	152.6
80°	357.3	379.5	512.5	763.3	1081.9	1022.8	806.3	476.9	255.6	133.9	106.5
82.5°	191.7	206.0	252.6	302.1	475.1	496.8	403.0	274.7	137.4	76.5	60.9
85°	84.3	92.6	114.8	109.5	156.1	153.4	154.7	188.7	65.6	35.2	39.6
87.5°	0.0	0.0	0.0	0.0	0.4	0.4	4.8	25.2	6.5	10.4	9.1
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°	988.9	988.9	988.9	988.9	988.9	988.9	988.9	988.9	988.9	988.9	988.9
2.5°	978.5	970.7	968.5	965.9	961.1	952.8	946.7	939.8	936.8	933.3	933.7
5°	954.1	944.6	935.4	923.7	908.9	892.4	881.1	868.1	861.1	854.6	856.3
7.5°	933.3	918.5	899.8	875.0	848.5	819.0	795.0	776.4	763.7	755.1	759.4
10°	920.2	902.8	870.2	829.8	785.0	739.8	705.5	673.3	653.3	637.7	636.8
12.5°	917.6	895.0	847.6	789.0	724.2	663.8	613.3	569.9	543.4	523.8	531.2
15°	920.2	891.5	828.1	751.1	669.4	587.7	525.1	475.1	443.4	425.6	424.3
17.5°	923.3	888.1	805.9	710.3	612.0	518.6	446.0	393.0	360.4	342.5	343.0
20°	925.9	882.9	779.8	665.5	553.8	454.2	379.0	328.6	299.5	286.5	288.6
22.5°	930.2	877.6	752.0	617.7	494.2	392.1	326.0	285.2	267.8	259.1	259.5
25°	938.5	874.6	723.3	565.5	435.6	342.5	289.5	262.1	251.2	246.0	245.6
27.5°	955.4	877.2	693.3	515.1	382.5	304.7	266.0	248.2	240.8	237.3	236.9
30°	983.7	887.6	667.2	463.8	336.9	275.2	249.9	239.1	234.7	231.7	231.3
32.5°	1026.7	907.2	639.0	416.0	299.9	253.4	237.3	231.7	228.6	226.9	226.9
35°	1091.9	942.8	611.2	374.3	271.2	236.5	227.3	225.2	222.6	221.7	222.6
37.5°	1185.8	999.8	586.0	337.8	250.8	223.4	216.5	217.3	215.2	216.5	217.8
40°	1304.9	1075.9	564.7	307.8	235.6	213.9	206.9	210.0	208.6	210.0	212.1
42.5°	1455.8	1170.2	548.6	284.3	224.7	206.0	199.5	202.6	201.7	203.4	205.6
45°	1624.0	1294.5	541.2	267.8	216.9	200.4	193.4	195.6	194.7	196.0	198.2
47.5°	1785.3	1407.5	547.7	258.2	210.4	195.6	188.2	189.1	188.7	188.2	189.5
50°	1924.4	1497.5	566.4	255.2	206.0	190.8	183.9	184.3	183.0	180.4	181.3
52.5°	2037.8	1569.7	577.7	255.2	203.9	185.6	179.1	179.5	176.9	173.4	173.9
55°	2112.6	1598.8	568.6	254.7	203.0	181.3	174.3	174.7	172.1	167.8	168.2
57.5°	2133.9	1570.5	530.3	249.9	202.1	177.8	169.5	170.4	168.7	163.9	163.9
60°	2074.3	1467.1	460.3	239.1	200.0	175.6	166.1	167.4	166.5	161.7	161.7
62.5°	1918.3	1283.2	376.9	222.6	193.9	173.0	163.0	165.6	167.8	165.2	164.7
65°	1626.2	1028.0	306.5	204.3	186.0	168.7	158.7	165.2	170.0	173.4	173.4
67.5°	1220.2	735.9	249.9	185.2	174.3	160.0	153.0	159.1	162.6	164.7	166.1
70°	743.8	432.9	196.9	163.0	157.4	146.9	141.7	135.6	130.8	130.0	130.4
72.5°	363.8	247.8	160.0	138.7	134.3	124.8	113.0	110.4	108.2	106.9	106.5
75°	200.4	172.6	132.1	115.2	107.4	95.6	93.0	88.7	87.8	86.1	86.5
77.5°	141.7	136.1	109.1	93.5	81.7	75.6	76.9	73.9	73.9	72.6	72.2
80°	106.5	106.9	83.9	68.2	60.4	58.2	59.6	59.6	58.7	58.2	57.8
82.5°	67.4	76.1	56.5	43.9	43.0	43.5	43.0	42.6	43.5	42.2	41.7
85°	46.5	54.8	34.3	26.1	26.1	25.6	26.5	26.1	27.0	25.6	25.6
87.5°	10.4	24.3	12.6	7.8	8.3	7.8	8.3	8.7	9.6	10.0	10.0
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)