

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: STREETWORKS

Report Number: P386171

Luminaire Tested: GAW-SA1D-735-U-T2

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386171  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA1D-735-U-T2  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7638.2 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

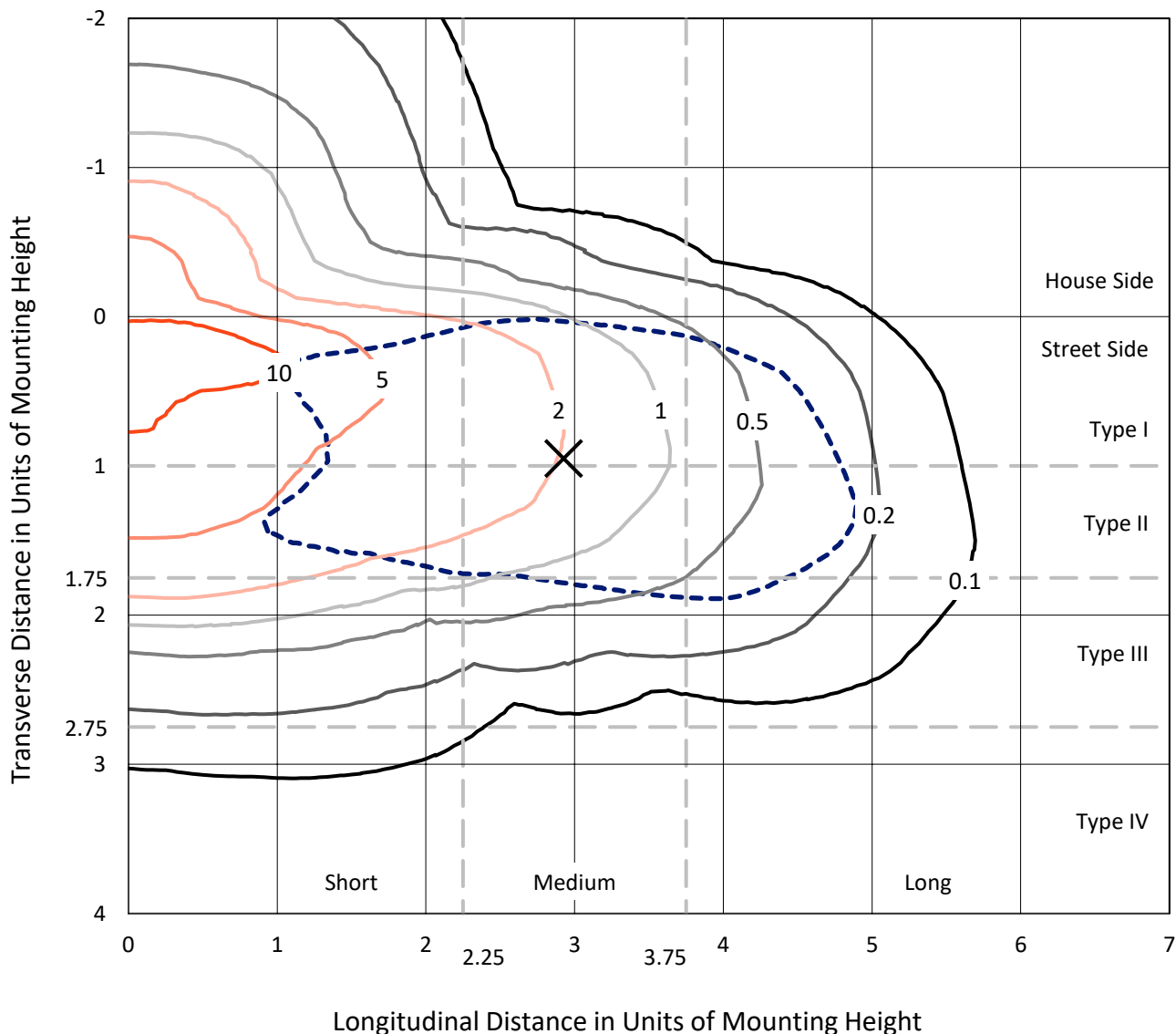
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

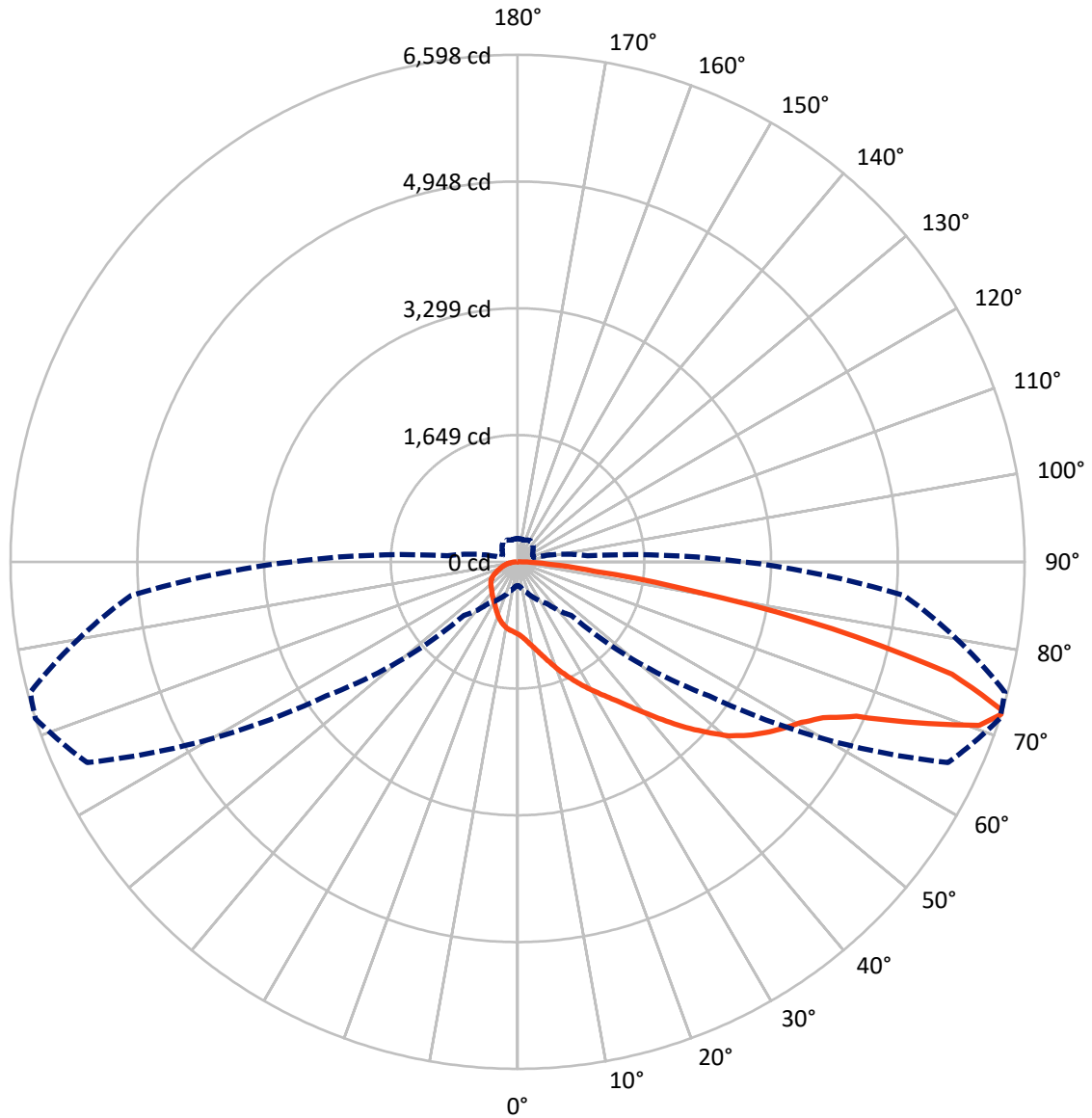
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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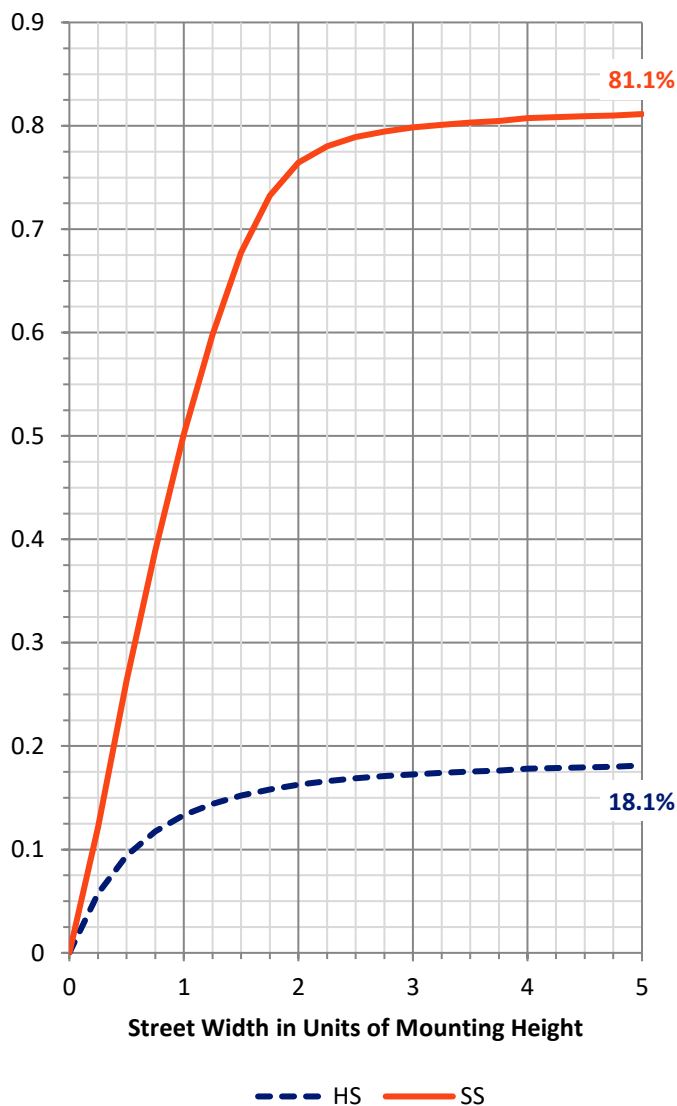
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1416.9	0.0	1416.9
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	6221.3	0.0	6221.3
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	7638.2	0.0	7638.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.2	1.2
10°-20°	304.3	4.0
20°-30°	533.2	7.0
30°-40°	790.6	10.4
40°-50°	1156.3	15.1
50°-60°	1591.0	20.8
60°-70°	1771.3	23.2
70°-80°	1200.2	15.7
80°-90°	197.3	2.6
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°	7638.2	100.0
0°-180°	7638.2	100.0

**Coefficient of Utilization**

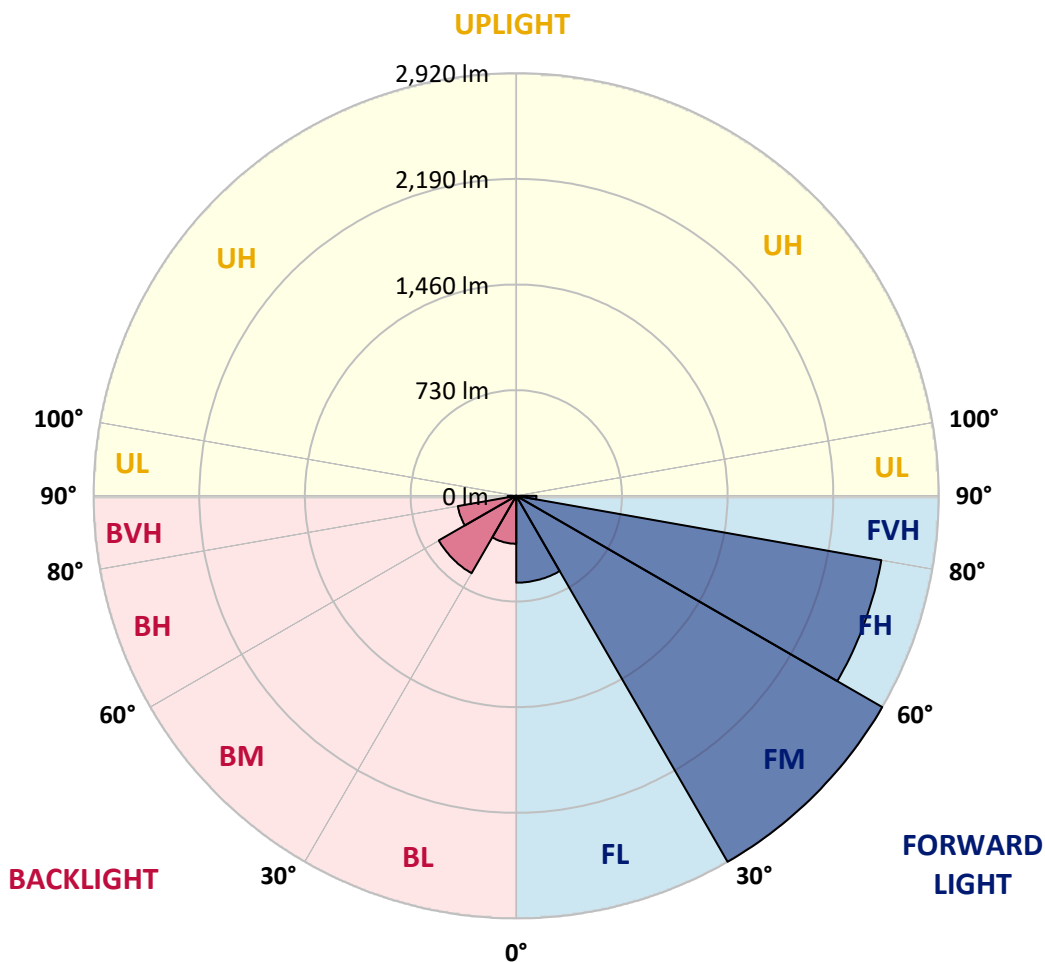


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	600.4	7.9			
FM (30°-60°)	2920.2	38.2			
FH (60°-80°)	2561.5	33.5			G2/5000
FVH (80°-90°)	139.2	1.8			G2/225
BL (0°-30°)	331.2	4.3	B1/500		
BM (30°-60°)	617.6	8.1	B1/1000		
BH (60°-80°)	409.9	5.4	B1/500		G1/500
BVH (80°-90°)	58.1	0.8			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	939.7	939.7	939.7	939.7	939.7	939.7	939.7	939.7	939.7	939.7	939.7
2.5°	1038.0	1036.5	1031.0	1031.0	1020.5	1011.5	994.6	983.4	969.9	965.2	949.4
5°	1138.5	1139.0	1132.3	1127.5	1112.0	1093.0	1064.3	1038.3	1012.3	1001.8	969.5
7.5°	1223.0	1221.9	1220.1	1216.1	1201.7	1182.2	1143.5	1104.8	1066.5	1050.7	994.9
10°	1277.1	1279.5	1281.1	1282.9	1276.8	1262.9	1226.4	1179.3	1129.1	1107.5	1025.4
12.5°	1304.4	1308.7	1316.1	1328.7	1338.6	1337.1	1310.5	1260.6	1200.8	1173.8	1063.6
15°	1320.5	1326.0	1337.6	1360.2	1388.4	1404.4	1397.3	1352.1	1285.6	1252.1	1110.1
17.5°	1330.6	1335.0	1352.9	1383.2	1425.0	1467.5	1486.2	1448.4	1381.3	1343.1	1163.5
20°	1337.3	1340.8	1363.2	1398.7	1452.8	1520.7	1572.7	1563.2	1486.8	1437.3	1219.2
22.5°	1352.6	1355.5	1376.8	1412.6	1472.5	1560.1	1656.2	1670.3	1598.0	1542.0	1279.0
25°	1395.2	1395.2	1413.1	1438.1	1494.4	1594.3	1726.6	1789.5	1711.6	1646.4	1334.2
27.5°	1476.4	1475.7	1482.3	1490.9	1533.6	1629.0	1789.5	1894.7	1829.5	1758.2	1387.9
30°	1572.7	1578.0	1578.7	1574.6	1594.5	1672.4	1847.6	2005.6	1948.0	1871.3	1442.8
32.5°	1696.6	1700.0	1696.1	1682.2	1679.3	1733.9	1904.6	2121.9	2076.3	1989.4	1493.1
35°	1853.9	1847.3	1834.9	1806.5	1779.5	1816.3	1969.9	2238.1	2220.5	2132.1	1562.2
37.5°	2022.5	2022.7	2007.5	1943.0	1905.7	1921.4	2059.8	2369.9	2394.9	2302.1	1650.9
40°	2157.7	2164.7	2174.2	2089.5	2041.1	2063.0	2174.2	2522.7	2601.1	2503.5	1766.3
42.5°	2252.1	2260.2	2287.0	2233.9	2183.7	2224.2	2308.8	2685.7	2832.6	2736.0	1901.5
45°	2352.1	2356.5	2375.4	2352.5	2320.5	2411.7	2460.6	2854.6	3077.4	2983.7	2052.7
47.5°	2457.2	2462.0	2481.4	2466.2	2449.3	2586.9	2618.9	3013.8	3311.9	3255.9	2214.2
50°	2587.1	2590.3	2608.7	2581.1	2586.3	2718.9	2760.4	3159.7	3557.9	3500.6	2376.2
52.5°	2764.4	2765.2	2790.7	2765.7	2741.0	2815.6	2882.2	3297.3	3750.6	3723.6	2538.2
55°	2903.3	2911.7	2995.4	2990.1	2975.8	2903.5	2984.0	3428.2	3922.6	3935.5	2710.2
57.5°	2814.6	2847.5	3016.9	3136.3	3252.6	3122.1	3121.5	3575.7	4082.5	4143.6	2899.3
60°	2465.1	2509.8	2759.4	3024.3	3387.9	3502.3	3407.2	3755.9	4244.0	4349.8	3136.3
62.5°	1760.5	1834.2	2172.3	2595.3	3202.3	3754.3	3988.4	4041.7	4463.6	4588.6	3444.3
65°	890.0	945.8	1229.3	1738.7	2558.4	3589.7	4620.1	4667.8	4845.2	4956.2	3918.4
67.5°	540.7	561.8	700.1	967.0	1568.5	2796.2	4826.3	5711.0	5583.8	5642.7	4594.6
70°	398.5	414.0	500.2	642.3	902.1	1640.8	4193.5	6455.6	6372.0	6365.4	5094.3
72°	310.4	321.6	397.9	518.9	659.6	984.4	3039.5	6180.7	6597.6	6564.5	5048.6
72.5°	294.3	304.3	373.7	488.4	623.3	892.3	2732.8	5995.3	6581.3	6566.4	4989.4
75°	231.7	238.8	276.7	377.6	487.8	506.2	1497.5	4646.1	5838.3	6081.1	4487.6
77.5°	191.7	192.8	212.8	274.9	380.3	357.9	735.6	3223.6	4180.7	4447.6	3178.9
80°	156.2	157.5	167.0	192.8	287.7	264.8	349.3	1853.6	2340.7	2343.6	1511.8
82.5°	124.4	124.7	135.2	141.0	206.8	189.4	200.2	870.3	1022.8	983.9	543.3
85°	87.6	85.8	132.0	115.7	135.2	121.5	110.5	344.6	422.9	404.5	170.1
87.5°	29.2	30.2	58.6	75.0	78.9	69.0	49.2	132.0	159.6	158.3	53.9
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°	939.7	939.7	939.7	939.7	939.7	939.7	939.7	939.7	939.7	939.7	939.7
2.5°	944.5	936.0	923.6	910.0	899.2	888.2	880.0	875.8	871.1	867.2	871.9
5°	954.4	938.6	912.3	886.6	867.6	850.8	838.7	832.4	826.6	822.6	823.2
7.5°	970.8	945.2	901.1	863.4	837.1	819.0	806.7	802.4	798.8	797.6	799.0
10°	988.1	950.5	886.0	836.1	806.1	791.1	785.6	788.4	791.1	793.5	796.1
12.5°	1007.8	955.2	864.2	804.0	778.5	772.7	778.2	790.9	800.1	805.5	809.0
15°	1033.6	959.4	839.0	771.9	754.8	761.4	780.1	801.9	817.9	828.2	829.8
17.5°	1057.3	959.1	806.7	739.6	735.6	754.8	783.0	813.7	835.3	849.8	852.7
20°	1081.7	952.1	769.0	708.0	716.2	747.7	784.3	821.3	847.4	864.2	868.2
22.5°	1104.6	939.7	727.7	679.4	699.8	738.3	779.2	816.9	842.9	856.6	860.8
25°	1120.1	918.2	685.9	655.1	685.4	726.7	763.0	793.2	812.7	819.5	820.6
27.5°	1128.0	890.0	646.5	634.1	670.4	707.7	732.7	747.7	753.2	752.7	751.6
30°	1129.1	852.9	612.5	617.0	653.1	679.8	691.7	688.8	681.7	669.6	670.6
32.5°	1125.7	811.1	584.1	600.6	630.9	645.9	646.5	632.5	613.6	594.4	589.1
35°	1126.7	770.0	559.1	582.2	604.1	610.7	604.6	584.1	558.4	533.7	528.4
37.5°	1138.3	734.3	537.6	561.0	574.3	575.9	567.3	545.7	526.8	502.6	500.5
40°	1165.9	708.8	517.0	537.1	544.7	545.5	533.1	517.9	519.4	506.5	506.2
42.5°	1215.6	697.8	498.9	512.1	516.8	518.4	508.9	499.2	512.8	504.5	501.5
45°	1279.7	700.4	483.7	487.6	496.3	503.6	497.9	486.0	491.3	454.8	442.6
47.5°	1353.9	717.2	471.6	466.6	481.5	495.5	486.5	468.7	450.0	413.7	406.9
50°	1440.7	743.2	460.5	445.7	465.5	484.4	475.5	450.0	421.9	404.2	401.9
52.5°	1531.2	775.1	449.5	422.9	445.3	476.0	471.6	445.7	411.1	393.7	390.6
55°	1633.8	807.1	435.5	396.3	423.4	472.0	469.7	430.5	402.9	393.2	390.8
57.5°	1761.3	843.7	417.1	368.7	402.9	457.9	450.5	421.3	394.5	387.1	386.4
60°	1927.5	897.6	390.6	339.3	377.9	436.1	434.5	407.9	381.1	375.9	374.8
62.5°	2176.9	986.7	354.0	309.8	350.0	399.0	413.4	389.8	366.9	366.6	367.1
65°	2563.4	1120.9	314.3	284.1	321.9	367.7	389.0	371.1	352.5	357.7	358.5
67.5°	3011.6	1232.1	275.3	258.8	293.3	338.0	366.9	352.5	333.2	346.9	347.2
70°	3160.8	1132.7	241.1	233.8	263.5	309.2	343.0	331.9	312.4	326.2	324.8
72°	2941.4	914.4	219.1	214.8	241.1	285.6	321.6	312.7	293.5	302.7	299.3
72.5°	2872.2	871.9	213.5	210.1	235.1	279.6	316.1	307.9	288.8	296.7	293.5
75°	2562.1	757.2	183.6	184.4	205.2	250.1	285.1	282.5	262.7	263.5	262.5
77.5°	1858.4	555.2	154.6	159.9	174.6	219.9	253.8	252.2	230.6	226.7	225.9
80°	862.4	283.2	126.0	128.3	143.6	183.8	216.4	214.4	197.0	192.0	189.1
82.5°	295.3	134.6	94.7	96.3	111.2	148.0	187.8	186.5	172.0	162.2	156.2
85°	105.5	67.1	66.3	64.7	79.5	116.5	163.5	156.5	135.2	115.2	114.7
87.5°	34.2	28.7	34.2	33.9	46.3	78.9	118.8	101.3	98.1	81.5	79.9
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)