

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: P386199

Luminaire Tested: GAW-SA1D-750-U-T2

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386199  
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-750-U-T2  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8131 lumens  
Efficiency: N/A  
Efficacy: 121.4 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

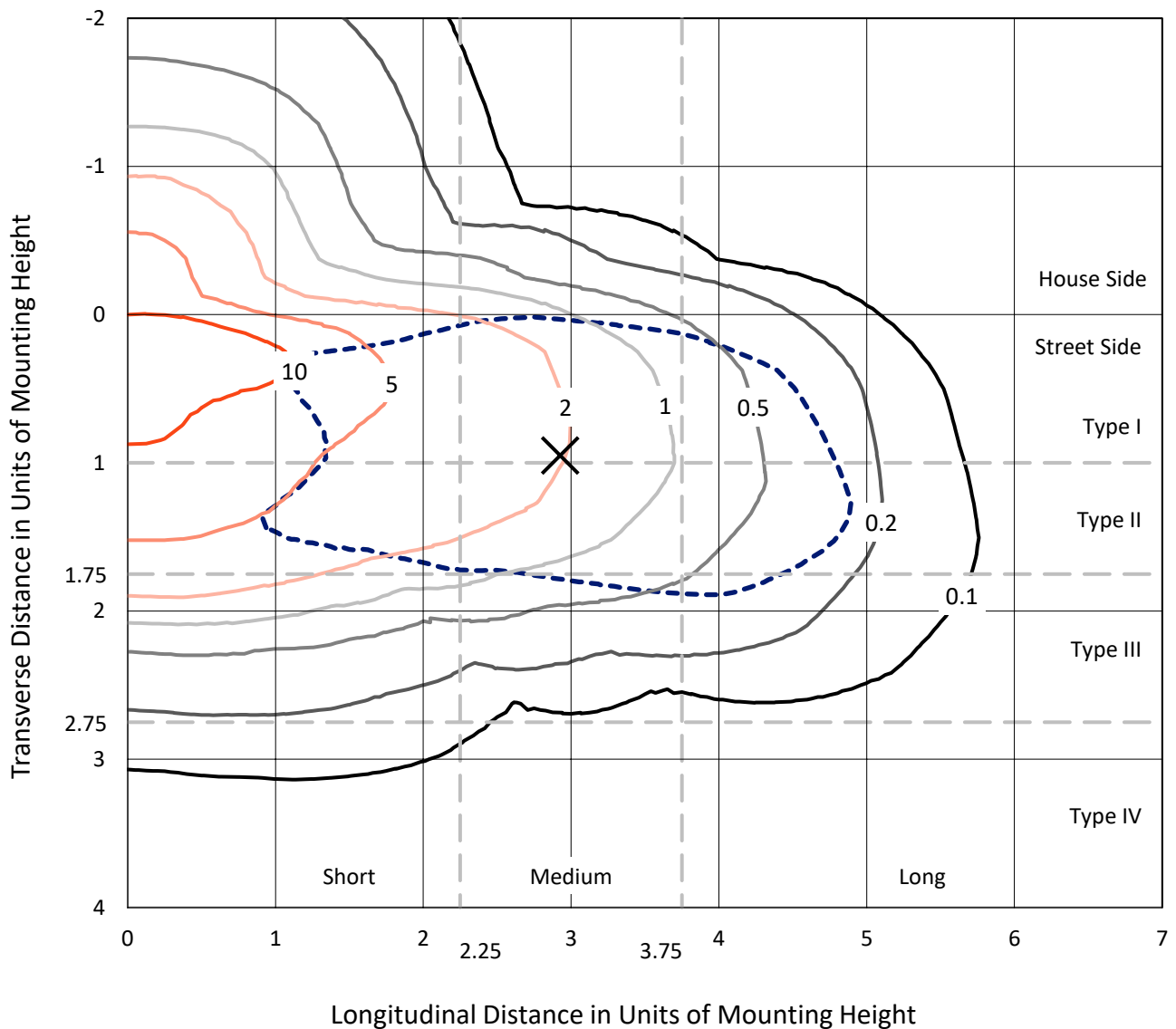
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

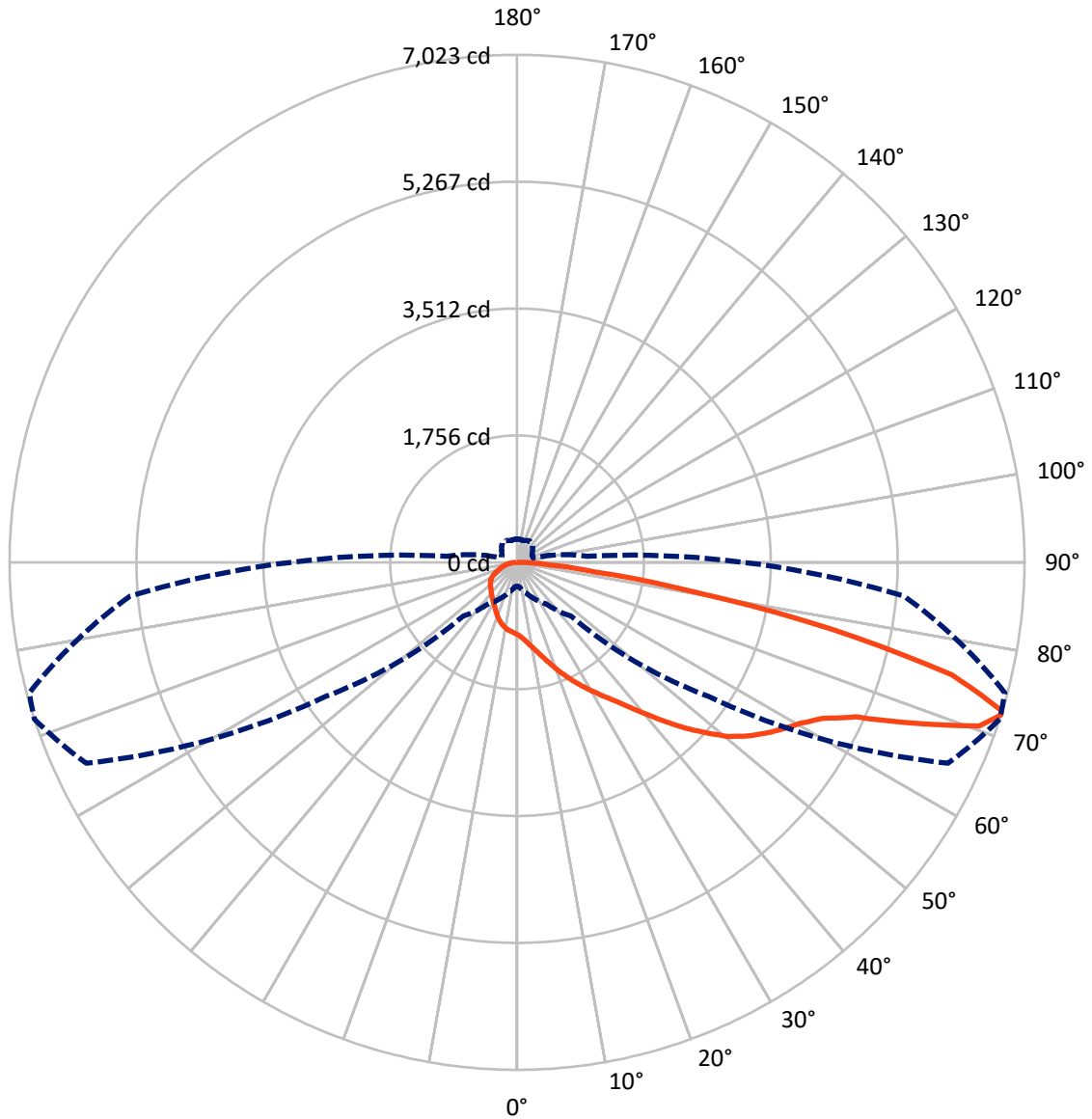
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.8 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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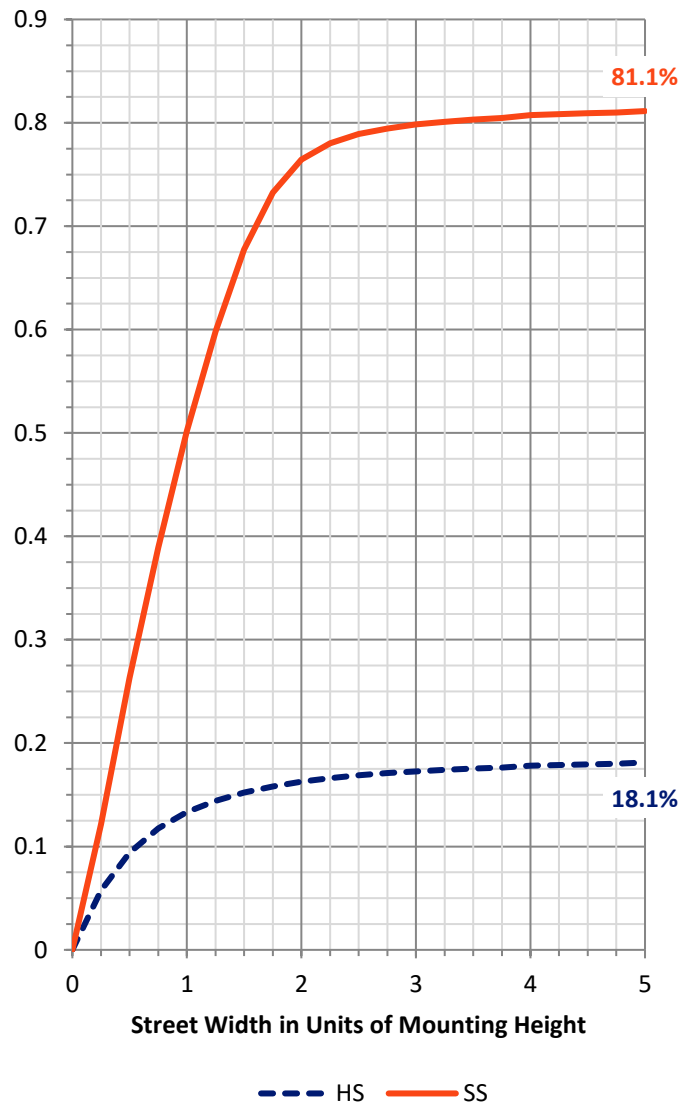
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1508.4	0.0	1508.4
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	6622.6	0.0	6622.6
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	8131.0	0.0	8131.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.2	1.2
10°-20°	323.9	4.0
20°-30°	567.6	7.0
30°-40°	841.6	10.4
40°-50°	1230.9	15.1
50°-60°	1693.6	20.8
60°-70°	1885.5	23.2
70°-80°	1277.6	15.7
80°-90°	210.0	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°	8131.0	100.0
0°-180°	8131.0	100.0

**Coefficient of Utilization**

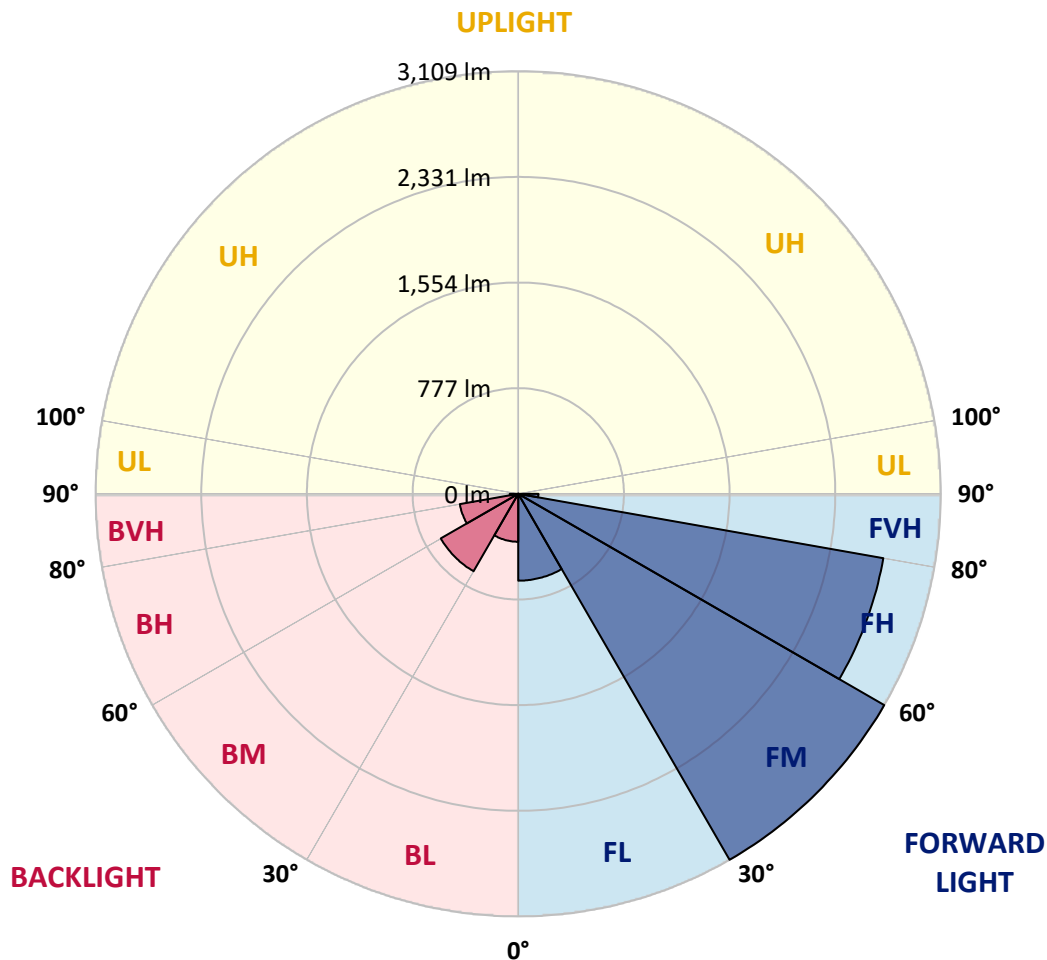


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	639.1	7.9			
FM (30°-60°)	3108.6	38.2			
FH (60°-80°)	2726.8	33.5			G2/5000
FVH (80°-90°)	148.1	1.8			G2/225
BL (0°-30°)	352.6	4.3	B1/500		
BM (30°-60°)	657.5	8.1	B1/1000		
BH (60°-80°)	436.4	5.4	B1/500		G1/500
BVH (80°-90°)	61.9	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°	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3
2.5°	1105.0	1103.4	1097.5	1097.5	1086.3	1076.8	1058.8	1046.8	1032.5	1027.5	1010.7
5°	1212.0	1212.5	1205.3	1200.2	1183.7	1163.5	1133.0	1105.3	1077.6	1066.4	1032.0
7.5°	1301.9	1300.7	1298.8	1294.6	1279.2	1258.5	1217.3	1176.1	1135.3	1118.5	1059.1
10°	1359.5	1362.0	1363.7	1365.7	1359.2	1344.4	1305.5	1255.4	1201.9	1178.9	1091.6
12.5°	1388.6	1393.1	1401.0	1414.4	1425.0	1423.4	1395.1	1341.9	1278.3	1249.5	1132.2
15°	1405.7	1411.6	1423.9	1448.0	1478.0	1495.0	1487.5	1439.3	1368.5	1332.9	1181.7
17.5°	1416.4	1421.1	1440.2	1472.4	1516.9	1562.2	1582.1	1541.8	1470.4	1429.8	1238.6
20°	1423.6	1427.3	1451.1	1488.9	1546.5	1618.8	1674.2	1664.1	1582.7	1530.0	1297.9
22.5°	1439.9	1443.0	1465.6	1503.7	1567.5	1660.8	1763.0	1778.1	1701.1	1641.5	1361.5
25°	1485.2	1485.2	1504.3	1530.9	1590.8	1697.2	1838.0	1904.9	1822.0	1752.6	1420.3
27.5°	1571.7	1570.9	1577.9	1587.1	1632.5	1734.1	1904.9	2016.9	1947.5	1871.6	1477.4
30°	1674.2	1679.8	1680.6	1676.2	1697.4	1780.3	1966.8	2135.0	2073.7	1992.0	1535.9
32.5°	1806.1	1809.7	1805.5	1790.7	1787.6	1845.8	2027.5	2258.8	2210.3	2117.7	1589.4
35°	1973.5	1966.5	1953.3	1923.1	1894.3	1933.5	2097.0	2382.5	2363.8	2269.7	1663.0
37.5°	2153.0	2153.2	2137.0	2068.4	2028.6	2045.4	2192.7	2522.8	2549.4	2450.6	1757.4
40°	2296.9	2304.4	2314.5	2224.3	2172.8	2196.1	2314.5	2685.5	2768.9	2665.0	1880.3
42.5°	2397.4	2406.0	2434.6	2378.0	2324.6	2367.7	2457.8	2859.0	3015.3	2912.5	2024.2
45°	2503.8	2508.5	2528.7	2504.3	2470.2	2567.3	2619.4	3038.8	3275.9	3176.2	2185.1
47.5°	2615.7	2620.8	2641.5	2625.3	2607.3	2753.8	2787.9	3208.2	3525.6	3466.0	2357.0
50°	2754.0	2757.4	2777.0	2747.6	2753.2	2894.3	2938.5	3363.5	3787.4	3726.4	2529.5
52.5°	2942.7	2943.6	2970.7	2944.1	2917.8	2997.3	3068.2	3510.0	3992.6	3963.8	2702.0
55°	3090.6	3099.5	3188.6	3183.0	3167.8	3090.8	3176.5	3649.4	4175.7	4189.4	2885.1
57.5°	2996.2	3031.2	3211.5	3338.6	3462.4	3323.5	3322.9	3806.4	4345.9	4410.9	3086.4
60°	2624.1	2671.7	2937.4	3219.4	3606.5	3728.3	3627.0	3998.2	4517.8	4630.4	3338.6
62.5°	1874.1	1952.5	2312.5	2762.7	3408.9	3996.5	4245.7	4302.5	4751.6	4884.6	3666.5
65°	947.4	1006.8	1308.6	1850.9	2723.5	3821.3	4918.2	4968.9	5157.8	5276.0	4171.2
67.5°	575.6	598.0	745.3	1029.4	1669.7	2976.6	5137.7	6079.5	5944.0	6006.7	4891.0
70°	424.2	440.7	532.5	683.7	960.3	1746.7	4464.1	6872.1	6783.1	6776.1	5423.0
72°	330.4	342.4	423.6	552.4	702.2	1047.9	3235.6	6579.5	7023.3	6988.0	5374.3
72.5°	313.3	323.9	397.8	519.9	663.5	949.9	2909.1	6382.1	7005.9	6990.0	5311.3
75°	246.7	254.2	294.5	402.0	519.3	538.9	1594.1	4945.9	6215.0	6473.4	4777.1
77.5°	204.1	205.2	226.5	292.6	404.8	381.0	783.1	3431.6	4450.4	4734.5	3384.0
80°	166.3	167.7	177.8	205.2	306.3	281.9	371.8	1973.2	2491.7	2494.8	1609.3
82.5°	132.4	132.7	143.9	150.1	220.1	201.6	213.1	926.4	1088.8	1047.4	578.4
85°	93.2	91.3	140.5	123.2	143.9	129.3	117.6	366.8	450.2	430.6	181.1
87.5°	31.1	32.2	62.4	79.8	84.0	73.4	52.4	140.5	169.9	168.5	57.4
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°	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3	1000.3
2.5°	1005.4	996.4	983.2	968.7	957.2	945.5	936.8	932.3	927.3	923.1	928.1
5°	1016.0	999.2	971.2	943.8	923.6	905.7	892.8	886.1	879.9	875.7	876.3
7.5°	1033.4	1006.2	959.2	919.1	891.1	871.8	858.7	854.2	850.3	849.1	850.5
10°	1051.8	1011.8	943.2	890.0	858.1	842.1	836.3	839.3	842.1	844.7	847.5
12.5°	1072.8	1016.8	920.0	855.9	828.7	822.5	828.4	841.9	851.7	857.5	861.2
15°	1100.3	1021.3	893.1	821.7	803.5	810.5	830.4	853.6	870.7	881.6	883.3
17.5°	1125.5	1021.0	858.7	787.3	783.1	803.5	833.5	866.2	889.2	904.6	907.7
20°	1151.5	1013.5	818.6	753.7	762.4	795.9	834.9	874.3	902.1	920.0	924.2
22.5°	1175.9	1000.3	774.7	723.2	745.0	785.9	829.5	869.6	897.3	911.9	916.3
25°	1192.4	977.4	730.2	697.4	729.6	773.6	812.2	844.4	865.1	872.4	873.5
27.5°	1200.8	947.4	688.2	675.0	713.6	753.4	780.0	795.9	801.8	801.3	800.1
30°	1201.9	907.9	652.0	656.8	695.2	723.7	736.3	733.2	725.7	712.8	713.9
32.5°	1198.3	863.4	621.8	639.4	671.6	687.6	688.2	673.3	653.2	632.7	627.1
35°	1199.4	819.7	595.2	619.8	643.1	650.1	643.6	621.8	594.4	568.1	562.5
37.5°	1211.7	781.7	572.3	597.2	611.4	613.1	603.9	580.9	560.8	535.0	532.8
40°	1241.1	754.5	550.4	571.7	579.8	580.7	567.5	551.3	552.9	539.2	538.9
42.5°	1294.0	742.8	531.1	545.1	550.1	551.8	541.7	531.4	545.9	537.0	533.9
45°	1362.3	745.6	514.9	519.1	528.3	536.1	530.0	517.4	523.0	484.1	471.2
47.5°	1441.3	763.5	502.0	496.7	512.6	527.5	517.9	498.9	479.0	440.4	433.1
50°	1533.7	791.2	490.2	474.5	495.5	515.7	506.2	479.0	449.1	430.3	427.8
52.5°	1630.0	825.1	478.5	450.2	474.0	506.7	502.0	474.5	437.6	419.1	415.8
55°	1739.2	859.2	463.6	421.9	450.7	502.5	500.0	458.3	428.9	418.6	416.0
57.5°	1874.9	898.1	444.0	392.5	428.9	487.4	479.6	448.5	420.0	412.1	411.3
60°	2051.9	955.5	415.8	361.2	402.3	464.2	462.5	434.2	405.7	400.1	399.0
62.5°	2317.3	1050.4	376.8	329.8	372.6	424.7	440.1	414.9	390.6	390.3	390.8
65°	2728.8	1193.2	334.6	302.4	342.7	391.4	414.1	395.0	375.2	380.8	381.6
67.5°	3205.9	1311.6	293.1	275.5	312.2	359.8	390.6	375.2	354.7	369.3	369.6
70°	3364.7	1205.8	256.7	248.9	280.5	329.2	365.1	353.3	332.6	347.2	345.8
72°	3131.2	973.4	233.2	228.7	256.7	304.0	342.4	332.9	312.4	322.2	318.6
72.5°	3057.5	928.1	227.3	223.7	250.3	297.6	336.5	327.8	307.4	315.8	312.4
75°	2727.4	806.0	195.4	196.3	218.4	266.2	303.5	300.7	279.7	280.5	279.4
77.5°	1978.3	591.0	164.6	170.2	185.9	234.1	270.2	268.5	245.5	241.3	240.5
80°	918.0	301.5	134.1	136.6	152.9	195.7	230.4	228.2	209.7	204.4	201.3
82.5°	314.4	143.3	100.8	102.5	118.4	157.6	199.9	198.5	183.1	172.7	166.3
85°	112.3	71.4	70.6	68.9	84.6	124.0	174.1	166.6	143.9	122.6	122.1
87.5°	36.4	30.5	36.4	36.1	49.3	84.0	126.5	107.8	104.4	86.8	85.1
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)