

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: P385891

Luminaire Tested: GAW-SA1C-727-U-T2

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P385891  
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-SA1C-727-U-T2  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6198 lumens  
Efficiency: N/A  
Efficacy: 105.1 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

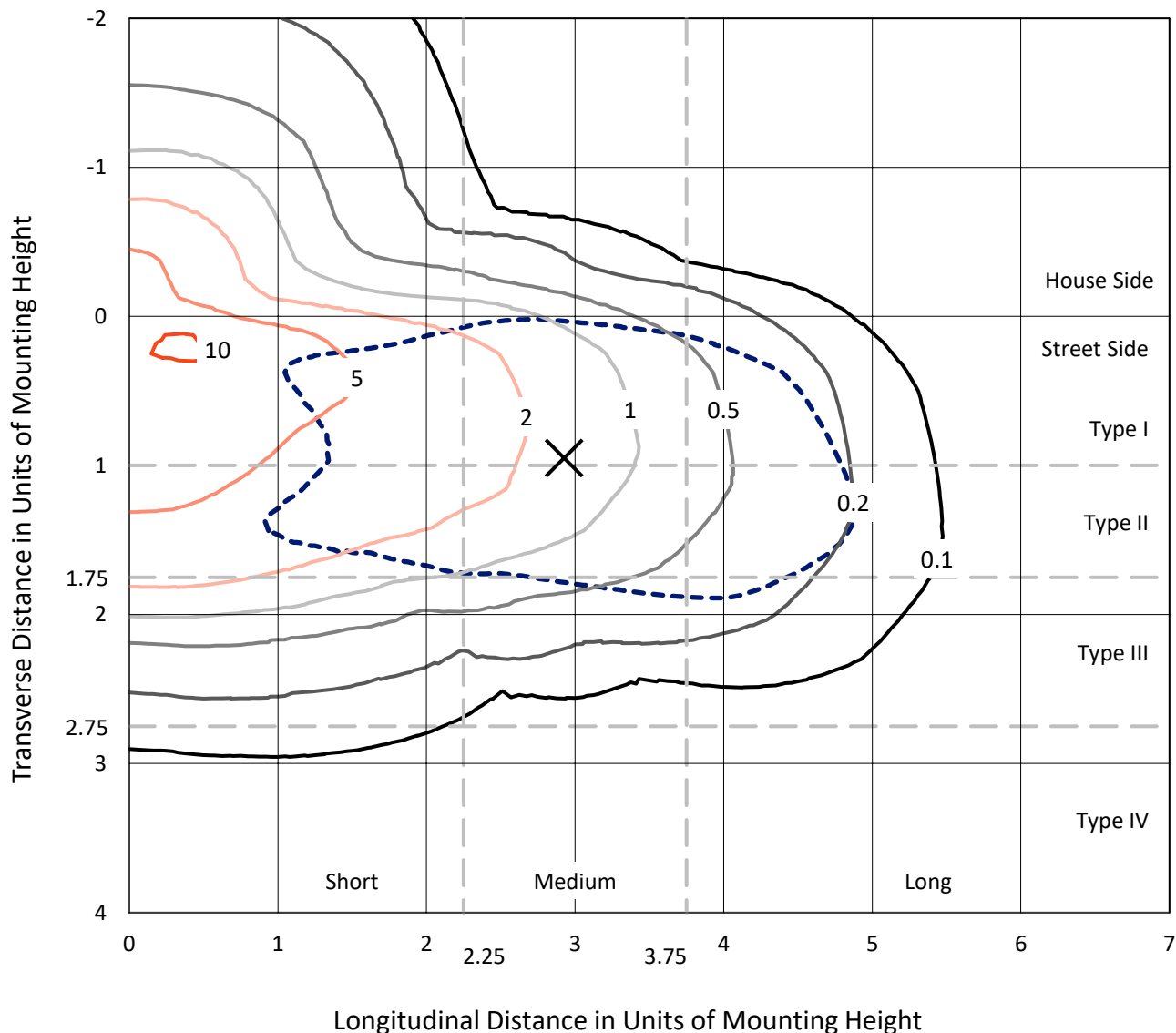
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

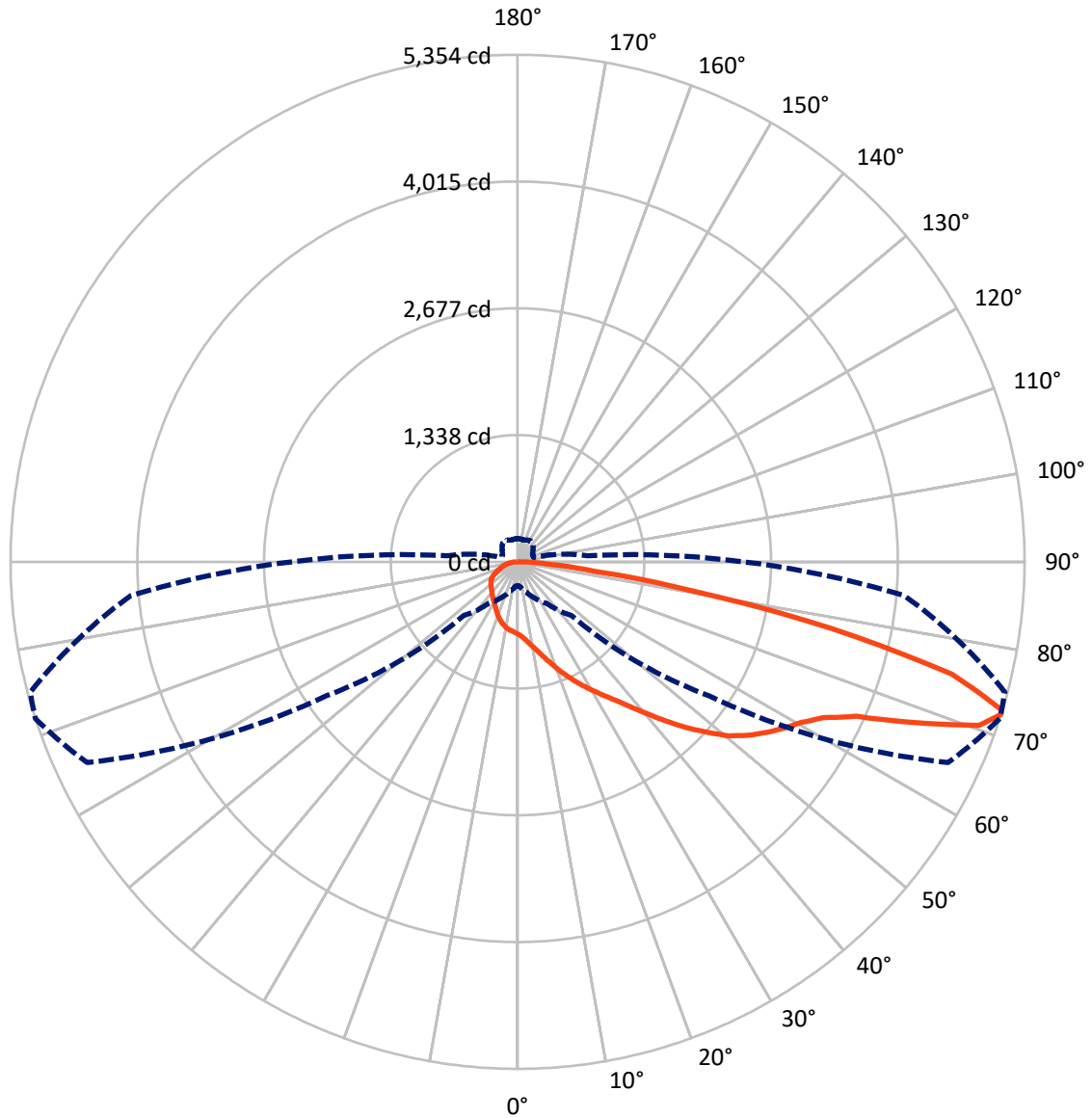
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.5 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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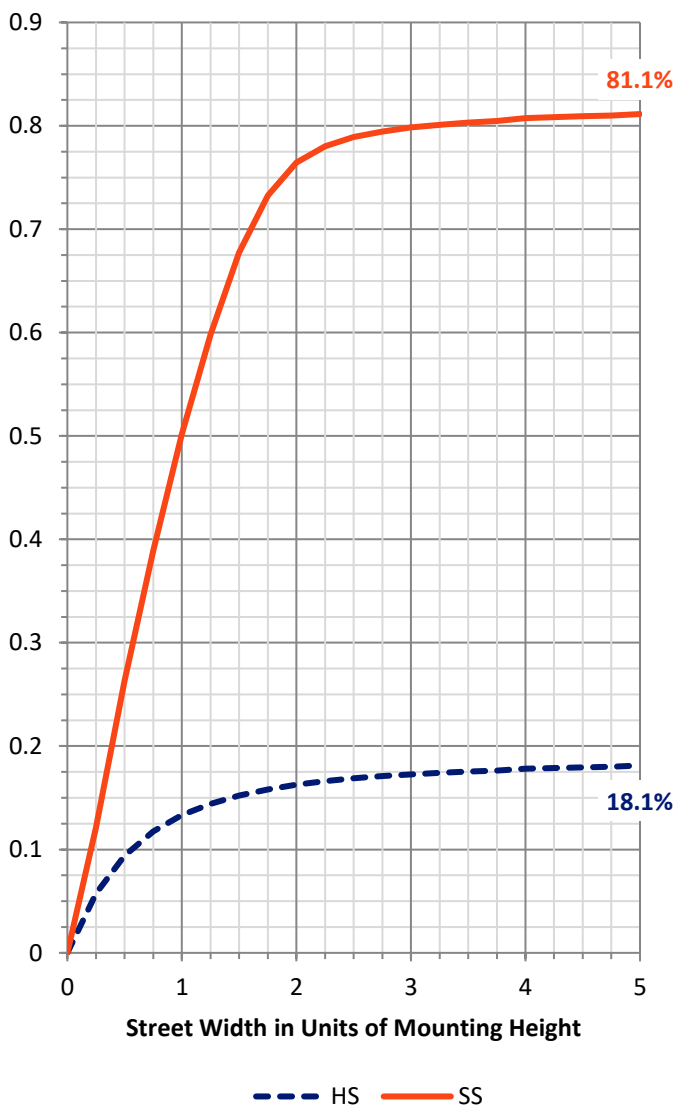
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1149.8	0.0	1149.8
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	5048.2	0.0	5048.2
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	6198.0	0.0	6198.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.4	1.2
10°-20°	246.9	4.0
20°-30°	432.7	7.0
30°-40°	641.5	10.4
40°-50°	938.2	15.1
50°-60°	1291.0	20.8
60°-70°	1437.3	23.2
70°-80°	973.9	15.7
80°-90°	160.1	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°	6198.0	100.0
0°-180°	6198.0	100.0

**Coefficient of Utilization**

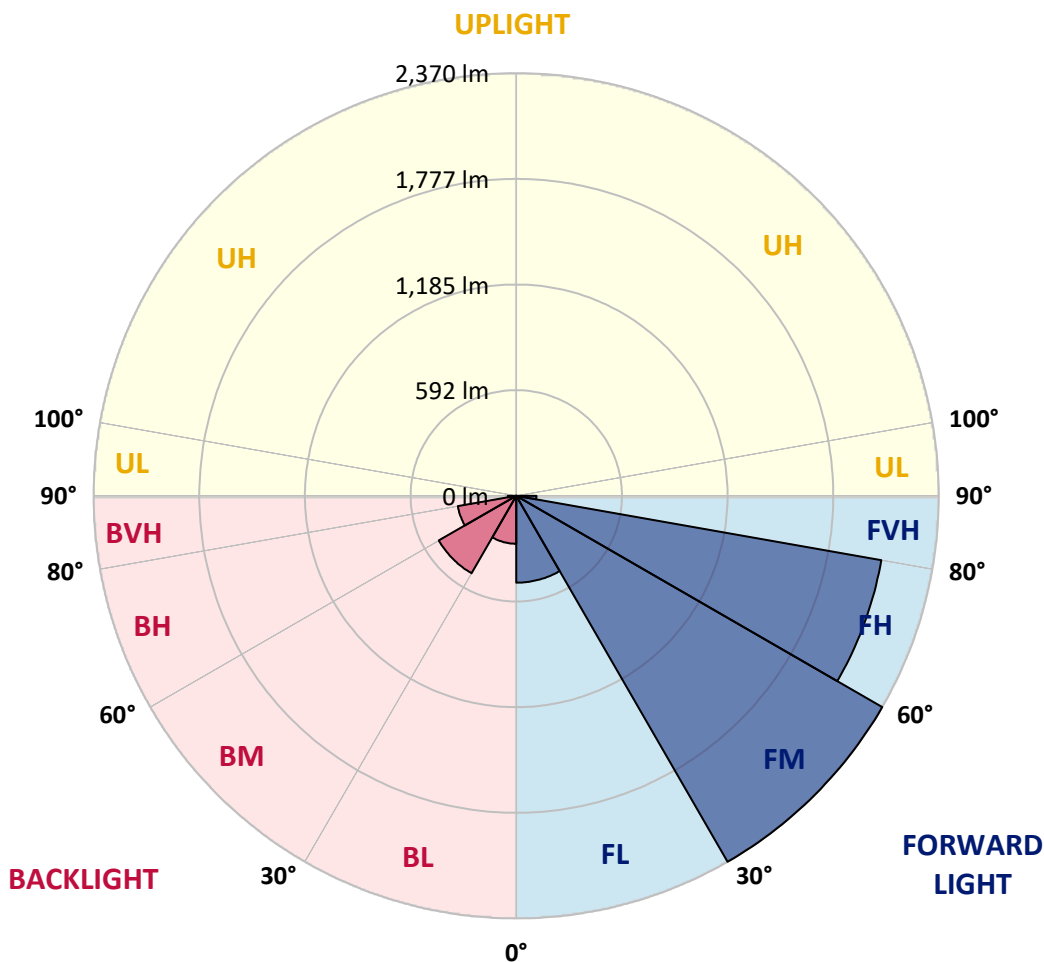


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	487.2	7.9			
FM (30°-60°)	2369.6	38.2			
FH (60°-80°)	2078.6	33.5			G2/5000
FVH (80°-90°)	112.9	1.8			G2/225
BL (0°-30°)	268.8	4.3	B1/500		
BM (30°-60°)	501.2	8.1	B1/1000		
BH (60°-80°)	332.6	5.4	B1/500		G1/500
BVH (80°-90°)	47.2	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°	762.5	762.5	762.5	762.5	762.5	762.5	762.5	762.5	762.5	762.5	762.5
2.5°	842.3	841.1	836.6	836.6	828.0	820.8	807.1	797.9	787.1	783.2	770.4
5°	923.9	924.3	918.7	914.9	902.3	886.9	863.7	842.5	821.4	812.9	786.6
7.5°	992.4	991.5	990.0	986.8	975.1	959.3	927.9	896.5	865.4	852.6	807.3
10°	1036.3	1038.2	1039.5	1041.0	1036.1	1024.8	995.1	956.9	916.2	898.7	832.1
12.5°	1058.5	1061.9	1067.9	1078.1	1086.3	1085.0	1063.4	1022.9	974.4	952.5	863.0
15°	1071.5	1076.0	1085.4	1103.8	1126.6	1139.6	1133.8	1097.1	1043.2	1016.0	900.8
17.5°	1079.6	1083.3	1097.8	1122.3	1156.3	1190.8	1206.0	1175.3	1120.8	1089.9	944.1
20°	1085.2	1088.0	1106.1	1134.9	1178.9	1233.9	1276.2	1268.5	1206.4	1166.3	989.4
22.5°	1097.6	1099.9	1117.2	1146.2	1194.9	1266.0	1343.8	1355.4	1296.7	1251.2	1037.8
25°	1132.1	1132.1	1146.7	1166.9	1212.6	1293.7	1401.0	1452.0	1388.9	1335.9	1082.6
27.5°	1198.1	1197.4	1202.8	1209.8	1244.4	1321.9	1452.0	1537.4	1484.5	1426.6	1126.2
30°	1276.2	1280.5	1281.1	1277.7	1293.9	1357.1	1499.2	1627.5	1580.7	1518.4	1170.8
32.5°	1376.7	1379.5	1376.3	1365.0	1362.6	1407.0	1545.5	1721.8	1684.9	1614.2	1211.5
35°	1504.3	1499.0	1489.0	1465.9	1443.9	1473.8	1598.4	1816.1	1801.8	1730.1	1267.7
37.5°	1641.1	1641.3	1629.0	1576.7	1546.4	1559.2	1671.4	1923.0	1943.3	1868.0	1339.6
40°	1750.8	1756.6	1764.3	1695.5	1656.3	1674.0	1764.3	2047.0	2110.6	2031.5	1433.3
42.5°	1827.4	1834.0	1855.8	1812.7	1771.9	1804.8	1873.5	2179.3	2298.4	2220.1	1543.0
45°	1908.5	1912.2	1927.5	1909.0	1882.9	1957.0	1996.7	2316.4	2497.1	2421.1	1665.7
47.5°	1993.9	1997.7	2013.5	2001.2	1987.5	2099.1	2125.1	2445.5	2687.5	2642.0	1796.7
50°	2099.3	2101.9	2116.8	2094.4	2098.7	2206.2	2240.0	2563.9	2887.0	2840.5	1928.2
52.5°	2243.2	2243.8	2264.5	2244.2	2224.2	2284.8	2338.8	2675.5	3043.4	3021.5	2059.6
55°	2355.8	2362.7	2430.5	2426.3	2414.7	2356.1	2421.4	2781.8	3183.0	3193.5	2199.2
57.5°	2283.9	2310.6	2448.0	2544.9	2639.2	2533.4	2533.0	2901.5	3312.8	3362.3	2352.6
60°	2000.3	2036.6	2239.1	2454.0	2749.2	2842.0	2764.7	3047.7	3443.8	3529.6	2544.9
62.5°	1428.6	1488.3	1762.8	2105.9	2598.5	3046.4	3236.4	3279.7	3622.0	3723.4	2794.8
65°	722.2	767.4	997.5	1410.9	2076.1	2912.8	3749.0	3787.6	3931.7	4021.7	3179.6
67.5°	438.8	455.8	568.1	784.7	1272.8	2269.0	3916.3	4634.2	4530.9	4578.7	3728.3
70°	323.3	335.9	405.9	521.1	732.0	1331.5	3402.8	5238.4	5170.5	5165.2	4133.8
72°	251.8	261.0	322.9	421.1	535.2	798.8	2466.4	5015.4	5353.6	5326.7	4096.6
72.5°	238.8	246.9	303.3	396.3	505.8	724.1	2217.5	4864.9	5340.4	5328.2	4048.6
75°	188.0	193.8	224.5	306.5	395.9	410.8	1215.2	3770.1	4737.5	4934.5	3641.4
77.5°	155.6	156.4	172.6	223.0	308.6	290.5	596.9	2615.8	3392.4	3609.0	2579.5
80°	126.8	127.8	135.5	156.4	233.5	214.9	283.4	1504.1	1899.4	1901.7	1226.7
82.5°	100.9	101.2	109.7	114.4	167.7	153.7	162.4	706.2	830.0	798.4	440.9
85°	71.1	69.6	107.1	93.9	109.7	98.6	89.6	279.6	343.2	328.2	138.1
87.5°	23.7	24.5	47.6	60.8	64.0	55.9	39.9	107.1	129.5	128.5	43.7
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°	762.5	762.5	762.5	762.5	762.5	762.5	762.5	762.5	762.5	762.5	762.5
2.5°	766.4	759.5	749.5	738.4	729.7	720.7	714.1	710.7	706.8	703.6	707.5
5°	774.5	761.7	740.3	719.4	704.0	690.4	680.6	675.4	670.7	667.5	668.0
7.5°	787.7	767.0	731.1	700.6	679.3	664.6	654.5	651.1	648.1	647.3	648.3
10°	801.8	771.3	719.0	678.4	654.1	641.9	637.5	639.8	641.9	643.9	646.0
12.5°	817.8	775.1	701.3	652.4	631.7	627.0	631.5	641.7	649.2	653.7	656.5
15°	838.7	778.5	680.8	626.4	612.5	617.8	633.0	650.7	663.7	672.0	673.3
17.5°	857.9	778.3	654.5	600.1	596.9	612.5	635.3	660.3	677.8	689.5	691.9
20°	877.8	772.5	624.0	574.5	581.1	606.7	636.4	666.5	687.6	701.3	704.5
22.5°	896.3	762.5	590.5	551.2	567.9	599.0	632.3	662.9	684.0	695.1	698.5
25°	908.9	745.0	556.6	531.6	556.1	589.7	619.1	643.6	659.4	665.0	665.8
27.5°	915.3	722.2	524.6	514.5	544.0	574.3	594.6	606.7	611.2	610.8	609.9
30°	916.2	692.1	497.0	500.7	529.9	551.7	561.3	558.9	553.2	543.3	544.2
32.5°	913.4	658.2	474.0	487.4	512.0	524.1	524.6	513.3	497.9	482.3	478.0
35°	914.3	624.9	453.7	472.5	490.2	495.5	490.6	474.0	453.1	433.0	428.7
37.5°	923.6	595.8	436.2	455.2	466.1	467.4	460.3	442.8	427.5	407.8	406.1
40°	946.0	575.1	419.6	435.8	442.0	442.6	432.6	420.2	421.5	411.0	410.8
42.5°	986.4	566.2	404.8	415.5	419.4	420.6	412.9	405.1	416.2	409.3	407.0
45°	1038.5	568.3	392.5	395.7	402.7	408.7	404.0	394.4	398.7	369.0	359.2
47.5°	1098.6	582.0	382.6	378.6	390.8	402.1	394.8	380.3	365.1	335.7	330.1
50°	1169.1	603.1	373.7	361.7	377.7	393.1	385.8	365.1	342.3	328.0	326.1
52.5°	1242.5	628.9	364.7	343.2	361.3	386.3	382.6	361.7	333.6	319.5	316.9
55°	1325.7	655.0	353.4	321.6	343.6	383.1	381.2	349.4	326.9	319.0	317.1
57.5°	1429.2	684.6	338.5	299.2	326.9	371.5	365.6	341.9	320.1	314.1	313.5
60°	1564.1	728.4	316.9	275.3	306.7	353.8	352.6	331.0	309.2	305.0	304.1
62.5°	1766.4	800.7	287.3	251.4	284.0	323.7	335.5	316.3	297.7	297.5	297.9
65°	2080.1	909.6	255.0	230.5	261.2	298.3	315.6	301.1	286.0	290.2	290.9
67.5°	2443.8	999.8	223.4	210.0	238.0	274.2	297.7	286.0	270.4	281.5	281.7
70°	2564.8	919.2	195.7	189.7	213.8	251.0	278.3	269.3	253.5	264.6	263.6
72°	2386.8	742.0	177.8	174.4	195.7	231.8	261.0	253.7	238.2	245.6	242.9
72.5°	2330.7	707.5	173.3	170.5	190.8	226.9	256.5	249.9	234.3	240.7	238.2
75°	2079.0	614.4	149.0	149.6	166.5	203.0	231.3	229.2	213.2	213.8	213.0
77.5°	1508.0	450.5	125.5	129.8	141.7	178.4	205.9	204.7	187.2	184.0	183.3
80°	699.8	229.8	102.2	104.1	116.5	149.2	175.6	173.9	159.8	155.8	153.4
82.5°	239.7	109.3	76.8	78.1	90.3	120.2	152.4	151.3	139.6	131.7	126.8
85°	85.6	54.4	53.8	52.5	64.4	94.5	132.7	127.0	109.7	93.5	93.0
87.5°	27.7	23.3	27.7	27.5	37.6	64.0	96.5	82.2	79.6	66.2	64.9
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)