

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: P385723

Luminaire Tested: GAW-SA1B-735-U-T2

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P385723  
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-SA1B-735-U-T2  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5626 lumens  
Efficiency: N/A  
Efficacy: 127.9 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

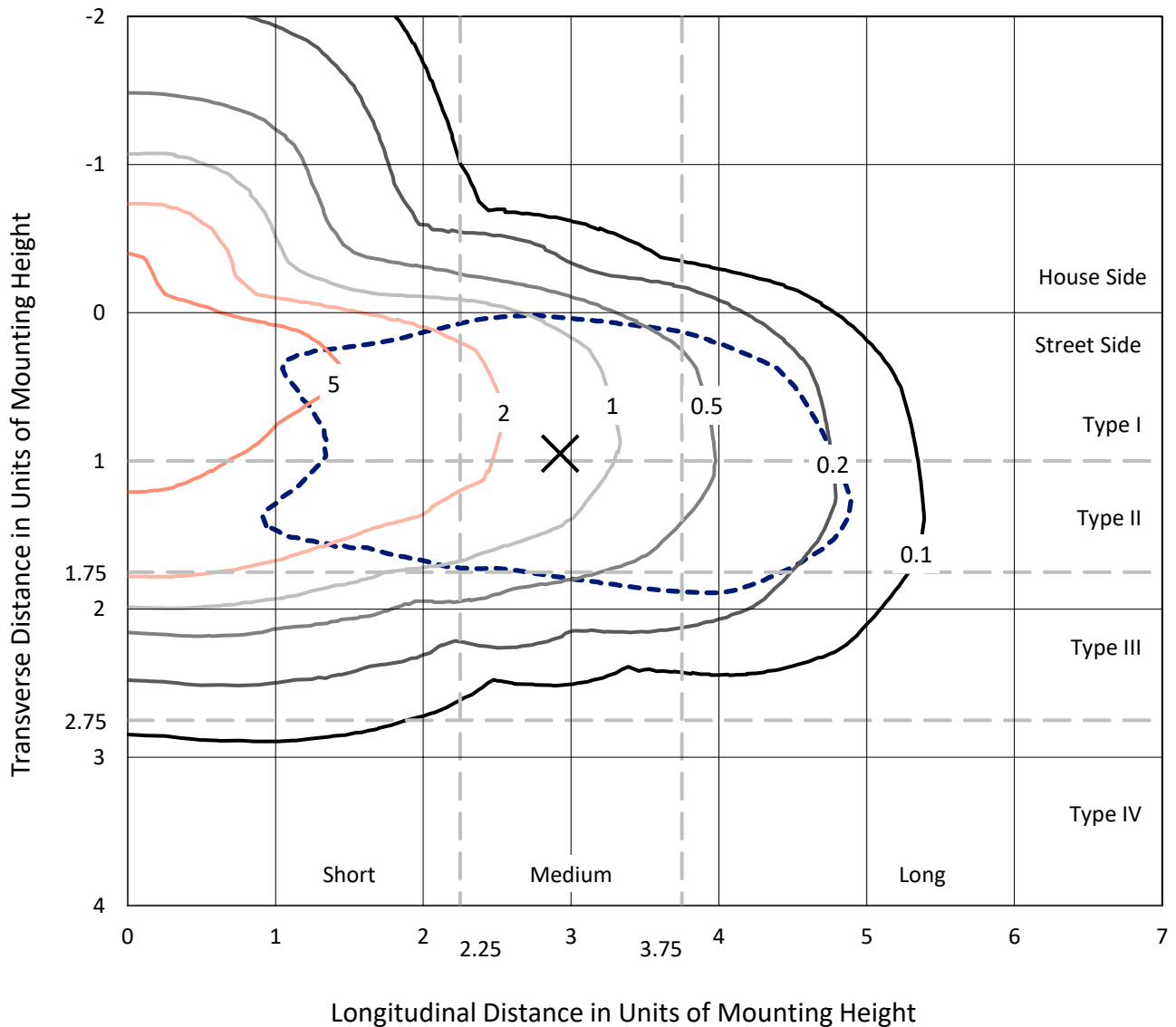
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

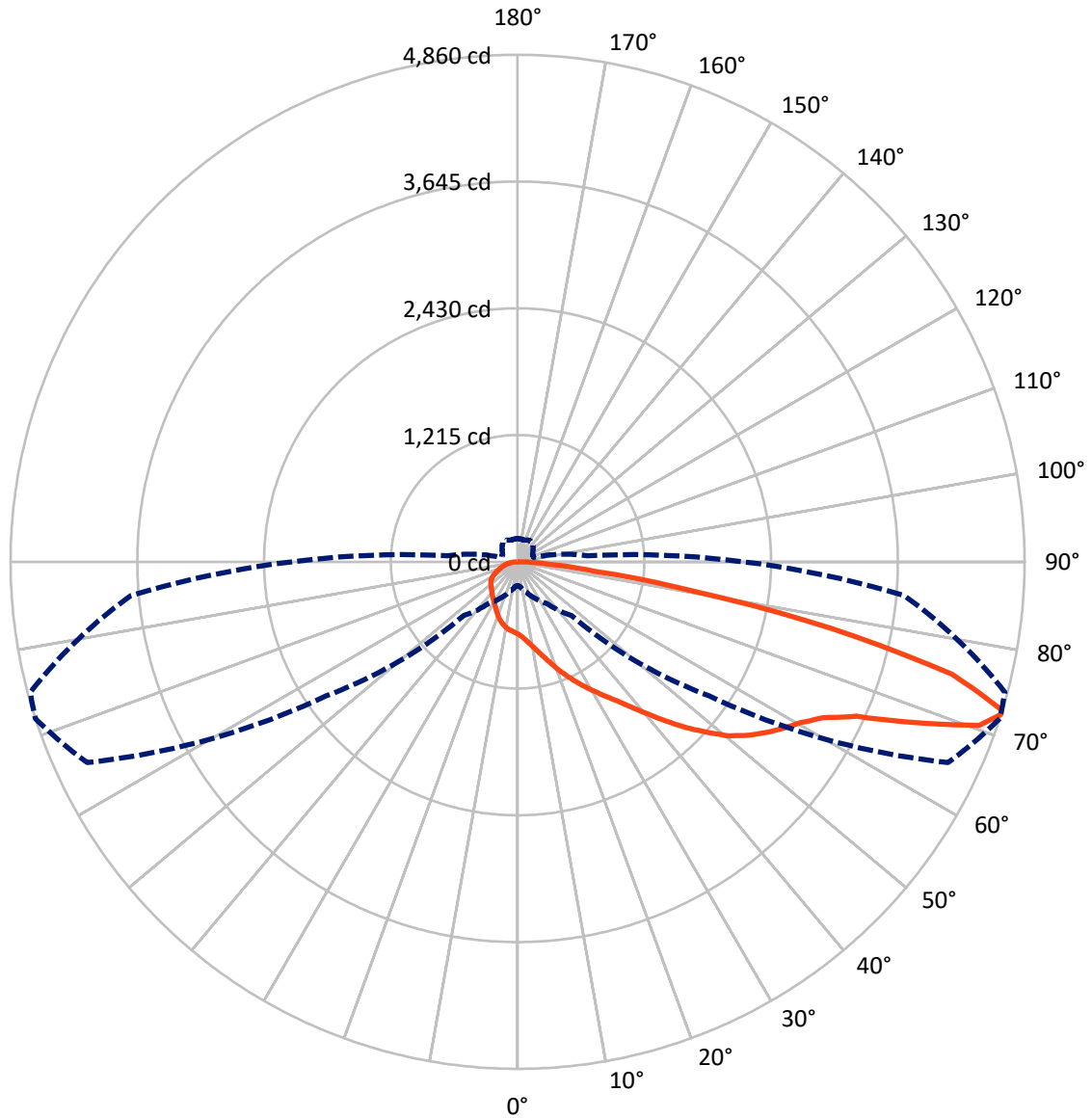
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.6 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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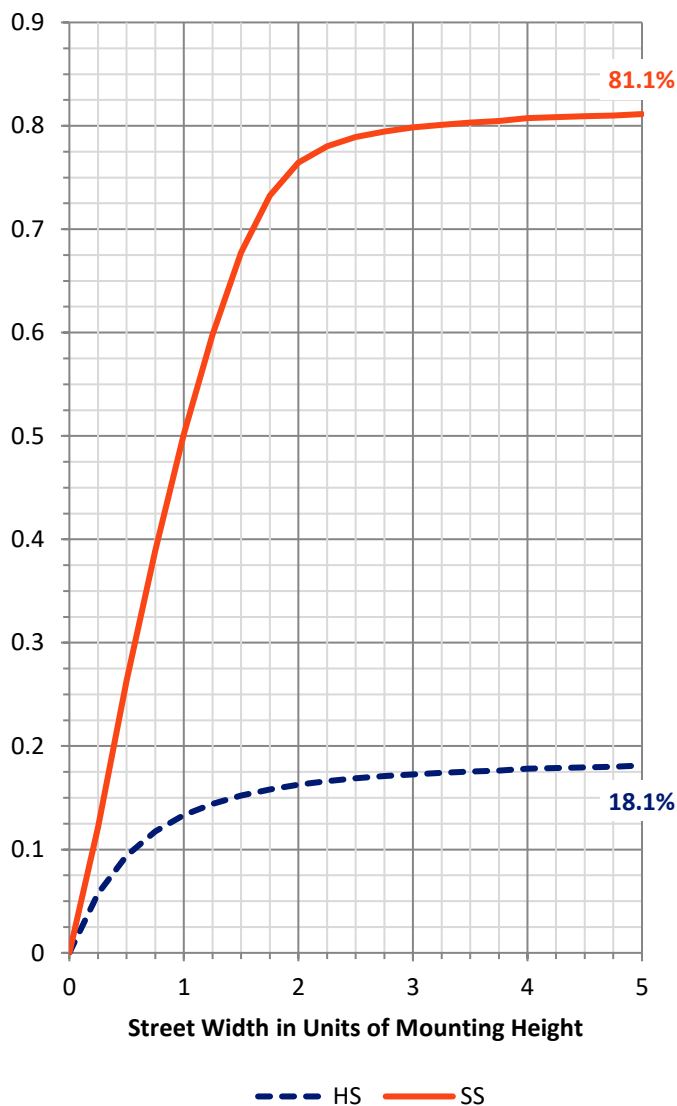
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1043.7	0.0	1043.7
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	4582.4	0.0	4582.4
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	5626.0	0.0	5626.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.4	1.2
10°-20°	224.1	4.0
20°-30°	392.7	7.0
30°-40°	582.3	10.4
40°-50°	851.7	15.1
50°-60°	1171.9	20.8
60°-70°	1304.7	23.2
70°-80°	884.0	15.7
80°-90°	145.3	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°	5626.0	100.0
0°-180°	5626.0	100.0

**Coefficient of Utilization**



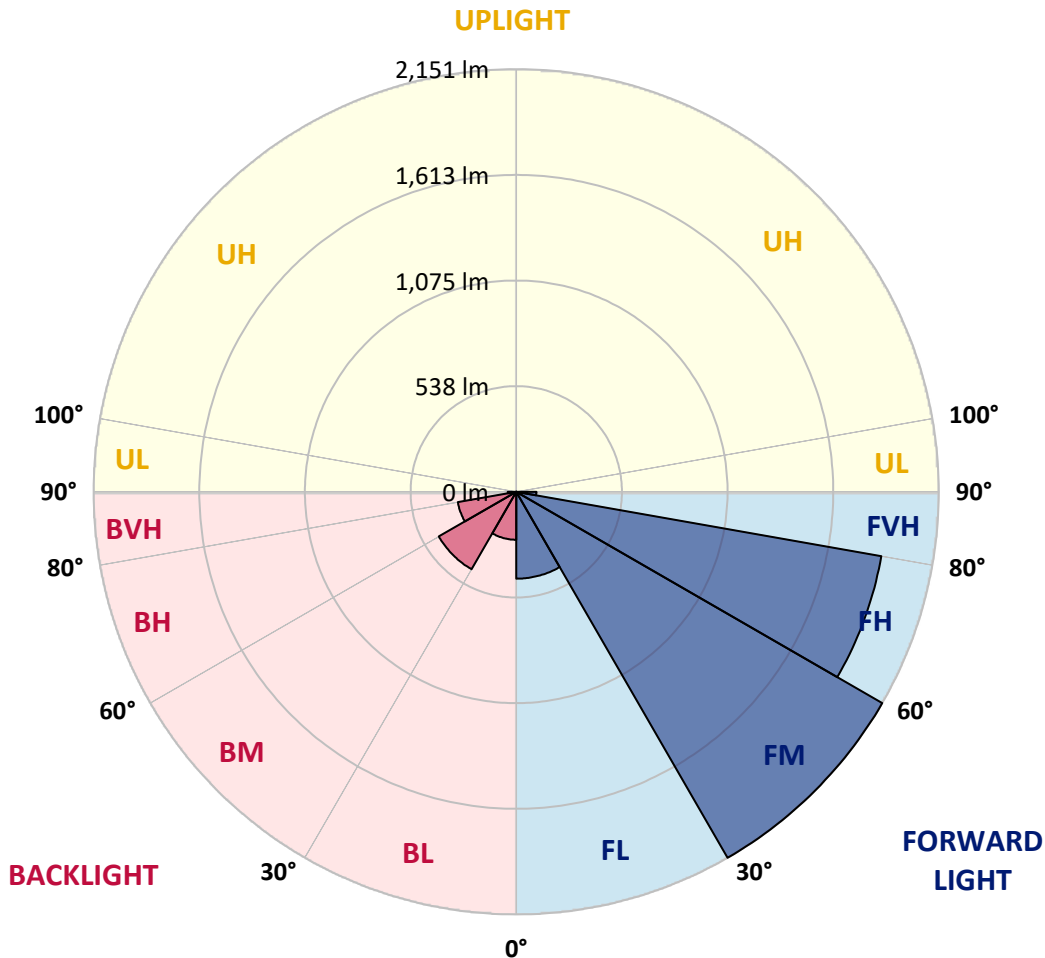
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	442.2	7.9			
FM (30°-60°)	2150.9	38.2			
FH (60°-80°)	1886.7	33.5			G2/5000
FVH (80°-90°)	102.5	1.8			G2/225
BL (0°-30°)	244.0	4.3	B1/500		
BM (30°-60°)	454.9	8.1	B1/1000		
BH (60°-80°)	302.0	5.4	B1/500		G1/500
BVH (80°-90°)	42.8	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°	692.1	692.1	692.1	692.1	692.1	692.1	692.1	692.1	692.1	692.1	692.1
2.5°	764.6	763.4	759.4	759.4	751.6	745.0	732.6	724.3	714.4	710.9	699.3
5°	838.6	839.0	834.0	830.4	819.1	805.1	783.9	764.8	745.6	737.9	714.0
7.5°	900.8	900.0	898.6	895.7	885.1	870.7	842.3	813.8	785.5	773.9	732.8
10°	940.7	942.4	943.6	944.9	940.5	930.2	903.3	868.7	831.6	815.8	755.3
12.5°	960.8	963.9	969.4	978.7	986.0	984.9	965.3	928.5	884.5	864.5	783.4
15°	972.6	976.7	985.2	1001.9	1022.6	1034.5	1029.2	995.9	946.9	922.3	817.6
17.5°	980.0	983.3	996.5	1018.8	1049.6	1081.0	1094.7	1066.8	1017.4	989.3	857.0
20°	985.0	987.6	1004.0	1030.1	1070.1	1120.0	1158.5	1151.4	1095.1	1058.7	898.1
22.5°	996.3	998.4	1014.1	1040.5	1084.6	1149.2	1219.8	1230.3	1177.1	1135.7	942.0
25°	1027.7	1027.7	1040.8	1059.3	1100.7	1174.3	1271.8	1318.1	1260.7	1212.7	982.7
27.5°	1087.5	1087.0	1091.8	1098.2	1129.5	1199.9	1318.1	1395.6	1347.5	1295.0	1022.2
30°	1158.5	1162.3	1162.9	1159.8	1174.5	1231.8	1360.9	1477.3	1434.8	1378.3	1062.7
32.5°	1249.7	1252.2	1249.3	1239.0	1236.9	1277.2	1402.9	1562.9	1529.4	1465.3	1099.7
35°	1365.5	1360.6	1351.6	1330.7	1310.6	1337.8	1450.9	1648.5	1635.6	1570.5	1150.7
37.5°	1489.7	1489.9	1478.6	1431.2	1403.6	1415.3	1517.2	1745.6	1764.0	1695.6	1216.0
40°	1589.3	1594.4	1601.5	1539.1	1503.4	1519.5	1601.5	1858.1	1915.9	1844.0	1301.0
42.5°	1658.8	1664.8	1684.5	1645.4	1608.4	1638.3	1700.7	1978.3	2086.3	2015.2	1400.5
45°	1732.4	1735.7	1749.6	1732.8	1709.1	1776.4	1812.4	2102.6	2266.7	2197.7	1512.0
47.5°	1809.9	1813.4	1827.7	1816.5	1804.1	1905.4	1929.0	2219.8	2439.5	2398.2	1630.9
50°	1905.6	1907.9	1921.4	1901.1	1905.0	2002.6	2033.2	2327.3	2620.6	2578.4	1750.2
52.5°	2036.1	2036.7	2055.5	2037.1	2018.9	2073.9	2122.9	2428.6	2762.6	2742.7	1869.6
55°	2138.4	2144.6	2206.3	2202.3	2191.9	2138.6	2197.9	2525.1	2889.3	2898.8	1996.2
57.5°	2073.1	2097.4	2222.1	2310.1	2395.7	2299.6	2299.3	2633.8	3007.1	3052.0	2135.5
60°	1815.7	1848.6	2032.5	2227.6	2495.5	2579.8	2509.6	2766.4	3126.0	3203.9	2310.1
62.5°	1296.7	1350.9	1600.1	1911.6	2358.7	2765.3	2937.7	2977.0	3287.8	3379.8	2536.9
65°	655.5	696.6	905.4	1280.7	1884.5	2644.0	3403.0	3438.1	3568.9	3650.6	2886.2
67.5°	398.3	413.8	515.6	712.2	1155.4	2059.6	3554.9	4206.5	4112.8	4156.2	3384.3
70°	293.5	304.9	368.4	473.1	664.4	1208.6	3088.8	4754.9	4693.4	4688.5	3752.3
72°	228.6	236.9	293.1	382.2	485.9	725.1	2238.8	4552.5	4859.6	4835.2	3718.6
72.5°	216.8	224.1	275.2	359.7	459.1	657.3	2012.9	4416.0	4847.6	4836.5	3675.0
75°	170.7	175.9	203.8	278.2	359.3	372.9	1103.0	3422.2	4300.3	4479.1	3305.4
77.5°	141.2	142.0	156.7	202.4	280.1	263.7	541.8	2374.4	3079.3	3275.9	2341.4
80°	115.1	116.0	123.0	142.0	211.9	195.1	257.3	1365.3	1724.1	1726.2	1113.5
82.5°	91.6	91.8	99.6	103.8	152.3	139.5	147.4	641.0	753.4	724.6	400.2
85°	64.5	63.1	97.2	85.2	99.6	89.5	81.4	253.7	311.5	298.0	125.3
87.5°	21.5	22.3	43.2	55.2	58.1	50.7	36.3	97.2	117.6	116.6	39.7
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°	692.1	692.1	692.1	692.1	692.1	692.1	692.1	692.1	692.1	692.1	692.1
2.5°	695.6	689.4	680.3	670.3	662.3	654.2	648.2	645.1	641.6	638.7	642.2
5°	703.0	691.4	672.0	653.0	639.1	626.7	617.7	613.1	608.8	605.9	606.4
7.5°	715.0	696.2	663.7	636.0	616.6	603.3	594.2	591.1	588.3	587.5	588.5
10°	727.7	700.1	652.6	615.9	593.7	582.7	578.7	580.7	582.7	584.4	586.4
12.5°	742.3	703.6	636.5	592.2	573.4	569.2	573.2	582.5	589.3	593.3	595.9
15°	761.3	706.7	617.9	568.5	555.9	560.8	574.5	590.6	602.4	610.0	611.2
17.5°	778.8	706.5	594.2	544.8	541.8	555.9	576.7	599.3	615.2	625.9	628.0
20°	796.8	701.3	566.5	521.5	527.5	550.8	577.6	605.0	624.1	636.5	639.4
22.5°	813.6	692.1	536.0	500.4	515.4	543.7	574.0	601.7	620.8	630.9	634.0
25°	825.1	676.3	505.2	482.6	504.8	535.3	561.9	584.2	598.6	603.7	604.4
27.5°	830.9	655.5	476.2	467.1	493.7	521.3	539.7	550.8	554.8	554.4	553.7
30°	831.6	628.3	451.2	454.5	481.0	500.8	509.4	507.4	502.1	493.2	493.9
32.5°	829.1	597.5	430.2	442.5	464.7	475.8	476.2	465.8	451.9	437.8	433.9
35°	829.9	567.2	411.8	428.9	445.0	449.8	445.4	430.2	411.3	393.0	389.2
37.5°	838.4	540.8	396.0	413.2	423.1	424.2	417.8	402.0	388.0	370.2	368.6
40°	858.7	522.0	380.8	395.6	401.2	401.8	392.7	381.4	382.6	373.1	372.9
42.5°	895.3	513.9	367.5	377.2	380.6	381.8	374.8	367.7	377.7	371.5	369.5
45°	942.6	515.8	356.2	359.1	365.5	371.0	366.7	358.0	361.9	334.9	326.1
47.5°	997.3	528.2	347.3	343.6	354.7	365.0	358.4	345.2	331.4	304.7	299.7
50°	1061.1	547.5	339.2	328.3	342.9	356.8	350.2	331.4	310.8	297.8	296.0
52.5°	1127.8	570.9	331.0	311.5	327.9	350.6	347.3	328.3	302.8	290.0	287.6
55°	1203.4	594.5	320.8	292.0	311.9	347.8	346.0	317.1	296.8	289.6	287.8
57.5°	1297.3	621.4	307.3	271.6	296.8	337.2	331.8	310.4	290.6	285.1	284.5
60°	1419.7	661.1	287.6	249.9	278.3	321.2	320.1	300.4	280.7	276.8	276.1
62.5°	1603.4	726.8	260.8	228.2	257.9	293.8	304.6	287.1	270.3	270.1	270.5
65°	1888.2	825.6	231.5	209.2	237.1	270.8	286.5	273.4	259.6	263.5	264.1
67.5°	2218.3	907.5	202.8	190.6	216.0	248.9	270.3	259.6	245.5	255.5	255.7
70°	2328.1	834.4	177.6	172.2	194.1	227.8	252.6	244.4	230.2	240.2	239.3
72°	2166.5	673.5	161.4	158.3	177.6	210.3	236.9	230.3	216.2	223.0	220.5
72.5°	2115.6	642.2	157.3	154.8	173.2	205.9	232.9	226.9	212.7	218.5	216.2
75°	1887.1	557.7	135.2	135.8	151.1	184.2	210.0	208.1	193.5	194.1	193.3
77.5°	1368.8	408.9	113.9	117.8	128.6	162.0	186.9	185.8	169.8	167.0	166.4
80°	635.2	208.6	92.8	94.5	105.8	135.4	159.4	157.9	145.1	141.4	139.3
82.5°	217.6	99.2	69.7	70.9	81.9	109.1	138.3	137.3	126.7	119.5	115.1
85°	77.7	49.4	48.8	47.6	58.5	85.9	120.5	115.3	99.6	84.8	84.5
87.5°	25.2	21.1	25.2	25.0	34.1	58.1	87.6	74.6	72.2	60.0	58.9
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)