

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: P385507

Luminaire Tested: GAW-SA1A-735-U-T4FT

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P385507  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA1A-735-U-T4FT  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD  
THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4704.5 lumens  
Efficiency: N/A  
Efficacy: 138.4 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

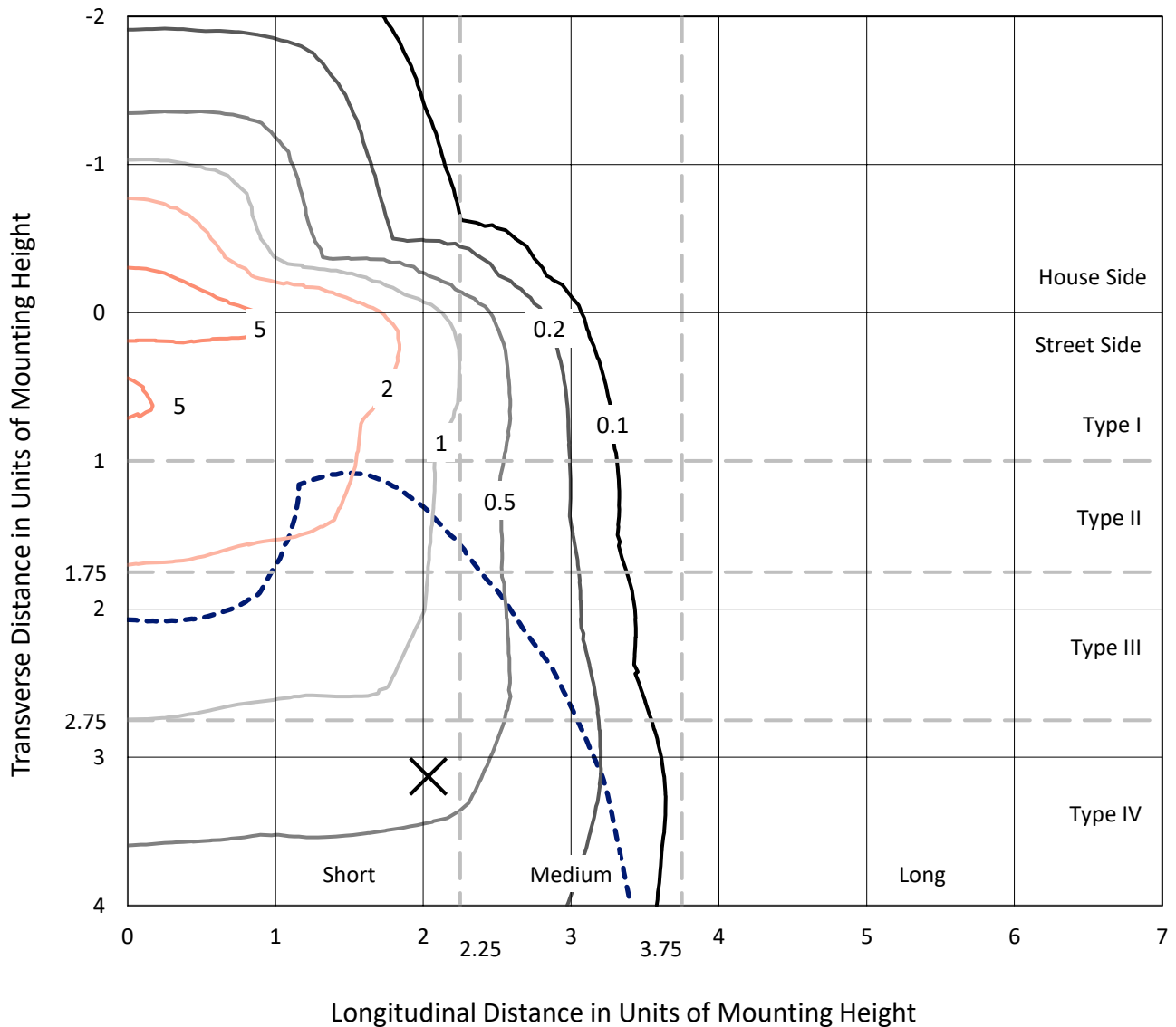
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

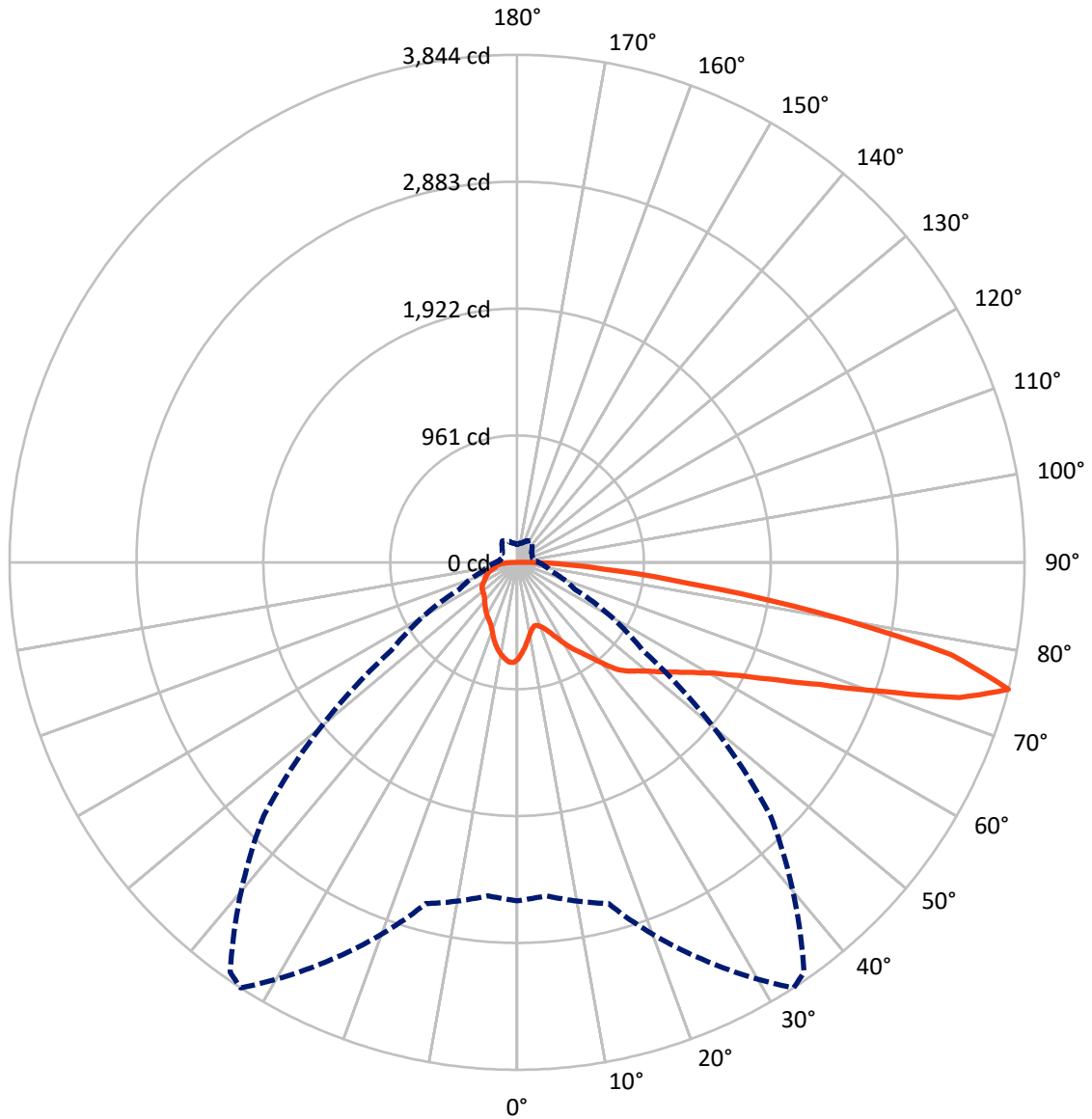
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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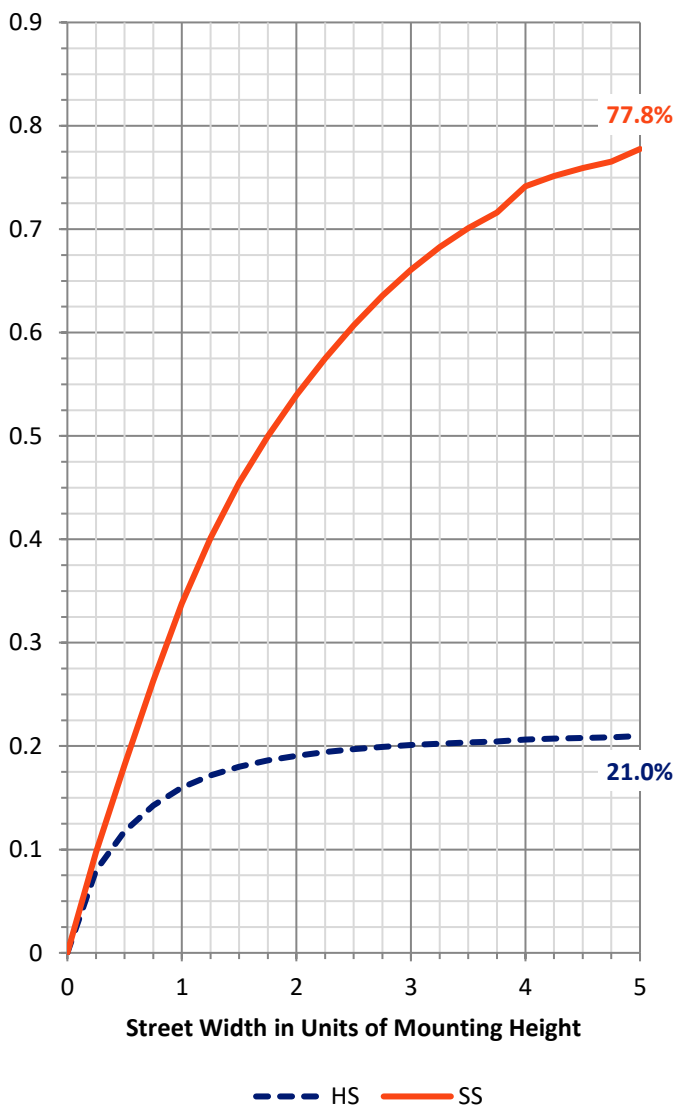
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1010.2	0.0	1010.2
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	3694.3	0.0	3694.3
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	4704.5	0.0	4704.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.5	1.4
10°-20°	180.1	3.8
20°-30°	294.2	6.3
30°-40°	438.1	9.3
40°-50°	628.3	13.4
50°-60°	862.6	18.3
60°-70°	1079.9	23.0
70°-80°	976.9	20.8
80°-90°	178.0	3.8
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°	4704.5	100.0
0°-180°	4704.5	100.0

**Coefficient of Utilization**



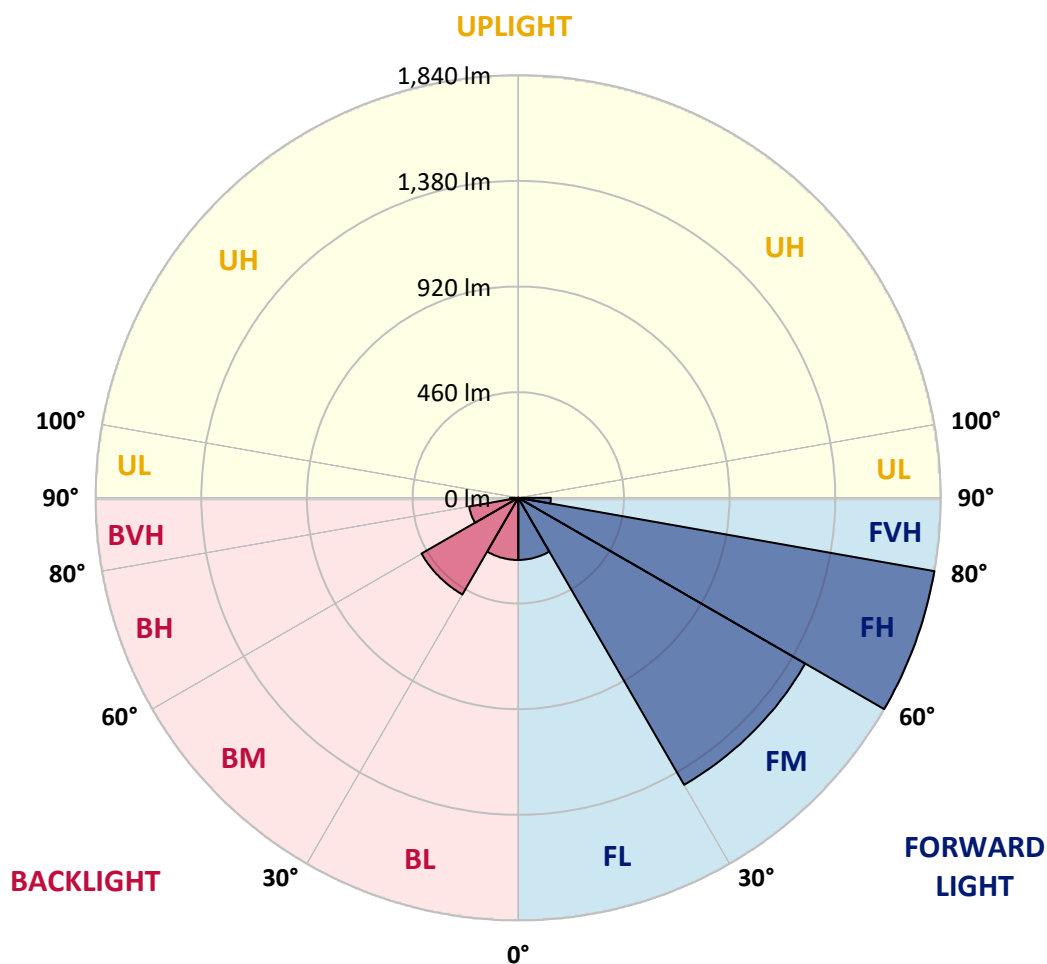
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	270.2	5.7			
FM (30°-60°)	1442.8	30.7			
FH (60°-80°)	1839.6	39.1			G2/5000
FVH (80°-90°)	141.7	3.0			G2/225
BL (0°-30°)	270.6	5.8	B1/500		
BM (30°-60°)	486.2	10.3	B1/1000		
BH (60°-80°)	217.2	4.6	B1/500		G1/500
BVH (80°-90°)	36.2	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	735.4	735.4	735.4	735.4	735.4	735.4	735.4	735.4	735.4	735.4	735.4
2.5°	682.8	680.2	685.1	685.8	690.0	691.6	697.5	706.6	714.0	722.7	730.5
5°	620.9	619.2	626.0	630.8	640.1	644.0	657.9	677.1	694.4	713.8	731.6
7.5°	562.1	561.1	568.8	579.8	590.5	596.0	619.8	647.9	676.6	708.2	735.4
10°	512.5	512.3	519.5	530.4	546.2	552.2	583.1	620.1	660.4	703.8	741.7
12.5°	484.7	485.9	489.3	498.4	513.0	519.0	553.3	596.9	646.8	702.4	751.0
15°	491.6	493.4	487.5	487.2	497.6	502.3	534.5	580.3	637.0	704.8	764.4
17.5°	520.7	521.0	505.6	495.8	502.1	504.5	528.6	570.9	631.4	710.3	781.3
20°	561.7	560.8	533.5	517.2	520.7	521.4	537.0	571.1	630.8	719.9	803.3
22.5°	615.9	609.9	573.1	551.0	550.2	549.3	558.2	583.1	638.0	735.5	829.4
25°	686.8	681.1	630.5	600.3	593.8	591.3	592.7	608.7	652.1	752.3	858.7
27.5°	765.6	755.6	706.9	664.2	650.7	647.2	639.4	645.0	667.5	768.3	893.5
30°	831.6	826.2	783.6	732.9	716.9	712.1	691.6	685.6	689.8	790.2	937.3
32.5°	868.5	864.9	839.0	798.1	783.3	776.4	747.6	735.5	725.6	824.9	996.8
35°	913.1	910.8	895.2	865.5	843.6	836.4	814.0	801.5	775.9	872.5	1073.6
37.5°	970.0	967.6	967.9	943.8	917.7	911.0	896.2	883.0	841.3	935.1	1157.2
40°	1034.4	1029.7	1027.9	1026.7	1010.1	1006.4	998.6	980.7	923.2	1009.8	1239.6
42.5°	1131.2	1114.5	1078.7	1092.2	1108.6	1106.7	1113.0	1087.3	1014.2	1098.2	1320.0
45°	1224.7	1197.2	1135.4	1138.4	1174.2	1185.1	1232.6	1214.4	1112.8	1195.1	1403.3
47.5°	1267.2	1246.4	1194.0	1194.1	1229.7	1252.3	1356.3	1343.2	1216.5	1305.1	1504.8
50°	1314.9	1294.0	1247.0	1264.6	1295.6	1319.7	1475.7	1469.0	1315.2	1425.5	1626.6
52.5°	1366.8	1331.6	1301.6	1333.4	1376.9	1404.9	1595.3	1577.1	1405.7	1546.7	1766.4
55°	1367.5	1357.9	1380.6	1403.9	1469.0	1503.3	1720.6	1672.5	1479.5	1665.8	1880.4
57.5°	1445.4	1429.8	1477.9	1488.8	1573.9	1612.6	1845.3	1755.5	1554.5	1757.1	1941.8
60°	1548.3	1535.1	1574.5	1602.8	1703.6	1755.3	1978.4	1840.8	1613.5	1826.1	1938.8
62.5°	1726.3	1711.2	1710.7	1750.4	1886.0	1946.1	2127.7	1924.5	1636.9	1839.7	1856.1
65°	1986.8	1962.8	1917.4	1936.3	2138.1	2198.1	2294.6	1985.1	1606.1	1766.6	1643.1
67.5°	2240.3	2239.5	2183.7	2222.4	2470.9	2519.0	2484.7	1991.1	1509.7	1512.0	1265.1
70°	2493.0	2496.3	2486.9	2621.4	2920.6	2970.6	2687.2	1910.4	1293.1	1091.9	757.9
72.5°	2693.2	2692.4	2739.8	3086.8	3504.1	3492.9	2857.8	1665.6	928.4	589.4	362.2
75°	2563.5	2535.2	2676.6	3317.2	3844.2	3789.4	2712.7	1161.9	481.8	268.3	195.0
77.5°	1672.0	1698.8	1906.3	2740.3	3362.6	3296.0	1990.2	542.1	227.1	175.9	141.4
80°	605.5	633.8	892.6	1552.3	2316.6	2305.8	980.1	222.8	153.6	132.9	103.1
82.5°	208.4	218.7	352.2	689.3	1308.0	1356.8	368.7	126.6	111.6	94.2	70.5
85°	81.7	93.6	161.0	331.7	659.7	664.6	149.4	75.7	77.7	61.7	38.7
87.5°	31.0	37.7	77.0	154.1	301.3	276.7	53.5	36.1	44.2	36.7	18.3
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°	735.4	735.4	735.4	735.4	735.4	735.4	735.4	735.4	735.4	735.4	735.4
2.5°	736.5	739.9	747.0	751.9	757.2	758.6	759.2	760.5	761.8	761.4	761.5
5°	741.0	747.7	759.2	764.1	766.4	763.8	758.7	754.7	751.8	750.1	749.6
7.5°	748.5	757.9	770.3	769.5	764.3	752.7	739.7	730.0	721.8	718.9	717.3
10°	758.4	769.5	778.1	768.8	753.7	733.7	714.2	699.1	686.9	682.2	681.3
12.5°	771.1	782.3	783.9	764.3	739.2	712.0	685.5	665.5	647.2	641.4	640.1
15°	787.5	798.1	788.0	756.3	721.4	684.6	650.3	623.2	604.0	596.9	594.3
17.5°	804.7	814.8	788.8	743.2	698.0	652.3	609.2	581.5	559.5	551.2	550.2
20°	825.4	830.0	785.4	724.3	665.7	610.3	565.0	538.8	527.2	521.4	520.7
22.5°	850.9	846.0	777.6	698.8	625.0	561.9	525.0	512.9	509.9	508.7	509.2
25°	877.9	862.9	766.1	665.5	573.5	513.5	495.8	499.2	503.1	502.7	502.7
27.5°	907.5	880.1	748.3	621.2	516.5	473.8	476.0	488.5	494.3	494.2	494.0
30°	945.8	899.7	725.8	568.1	463.1	445.9	458.7	474.0	482.0	481.6	481.8
32.5°	992.8	921.1	695.1	508.8	424.6	425.3	440.1	455.1	464.4	463.6	463.8
35°	1047.7	945.1	653.4	450.3	399.1	408.8	420.6	431.1	439.9	438.8	437.7
37.5°	1107.5	968.7	598.2	398.0	378.3	393.6	403.4	405.2	409.2	406.3	404.1
40°	1164.4	986.7	527.0	355.1	357.3	380.5	386.9	379.8	372.5	371.5	368.5
42.5°	1213.9	992.8	455.0	320.8	335.3	366.9	370.9	355.8	342.7	336.6	334.0
45°	1266.2	994.8	387.9	292.1	313.9	354.7	358.9	339.0	320.4	307.2	302.8
47.5°	1334.7	1010.1	335.7	270.7	297.7	346.6	352.6	325.5	301.5	282.5	278.3
50°	1424.2	1040.4	293.3	254.5	287.2	341.3	348.0	312.3	285.9	262.9	258.9
52.5°	1523.7	1068.2	259.0	241.3	276.9	331.8	342.2	303.0	271.2	244.9	240.5
55°	1593.2	1046.9	231.4	227.7	263.6	318.4	334.1	295.0	250.3	227.3	223.5
57.5°	1606.6	974.1	210.4	213.5	247.5	301.5	321.6	277.2	238.9	219.7	215.7
60°	1570.1	872.7	194.8	200.6	230.2	280.1	298.2	264.7	228.0	211.6	208.2
62.5°	1478.6	768.8	183.3	188.8	214.2	258.5	283.6	251.6	216.9	202.3	198.9
65°	1293.8	645.5	172.3	178.4	199.2	239.8	270.5	239.4	206.1	194.8	191.6
67.5°	976.7	483.4	161.9	167.4	185.9	223.6	256.1	227.3	195.5	188.3	184.4
70°	575.1	302.8	150.0	155.8	171.9	206.7	240.9	214.2	182.3	179.0	174.1
72.5°	267.6	182.1	136.5	142.2	154.3	184.1	221.1	197.0	166.7	159.6	152.7
75°	159.7	133.3	120.6	125.6	134.2	160.1	196.4	179.4	151.9	142.5	135.4
77.5°	119.4	101.9	103.1	108.4	115.4	140.1	174.1	165.6	140.5	133.3	128.4
80°	86.0	77.3	84.0	89.9	97.1	127.4	166.7	153.1	127.1	117.3	112.8
82.5°	57.4	55.6	63.2	69.2	76.4	111.5	156.7	134.1	108.6	96.2	86.1
85°	31.7	33.4	42.6	45.2	51.4	78.5	128.4	107.7	81.7	65.9	62.8
87.5°	13.2	15.4	22.9	22.1	27.3	46.8	84.5	65.0	52.0	38.8	30.2
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)