

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: P385677

Luminaire Tested: GAW-SA1B-727-U-T4W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P385677  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA1B-727-U-T4W  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5068 lumens  
Efficiency: N/A  
Efficacy: 115.2 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

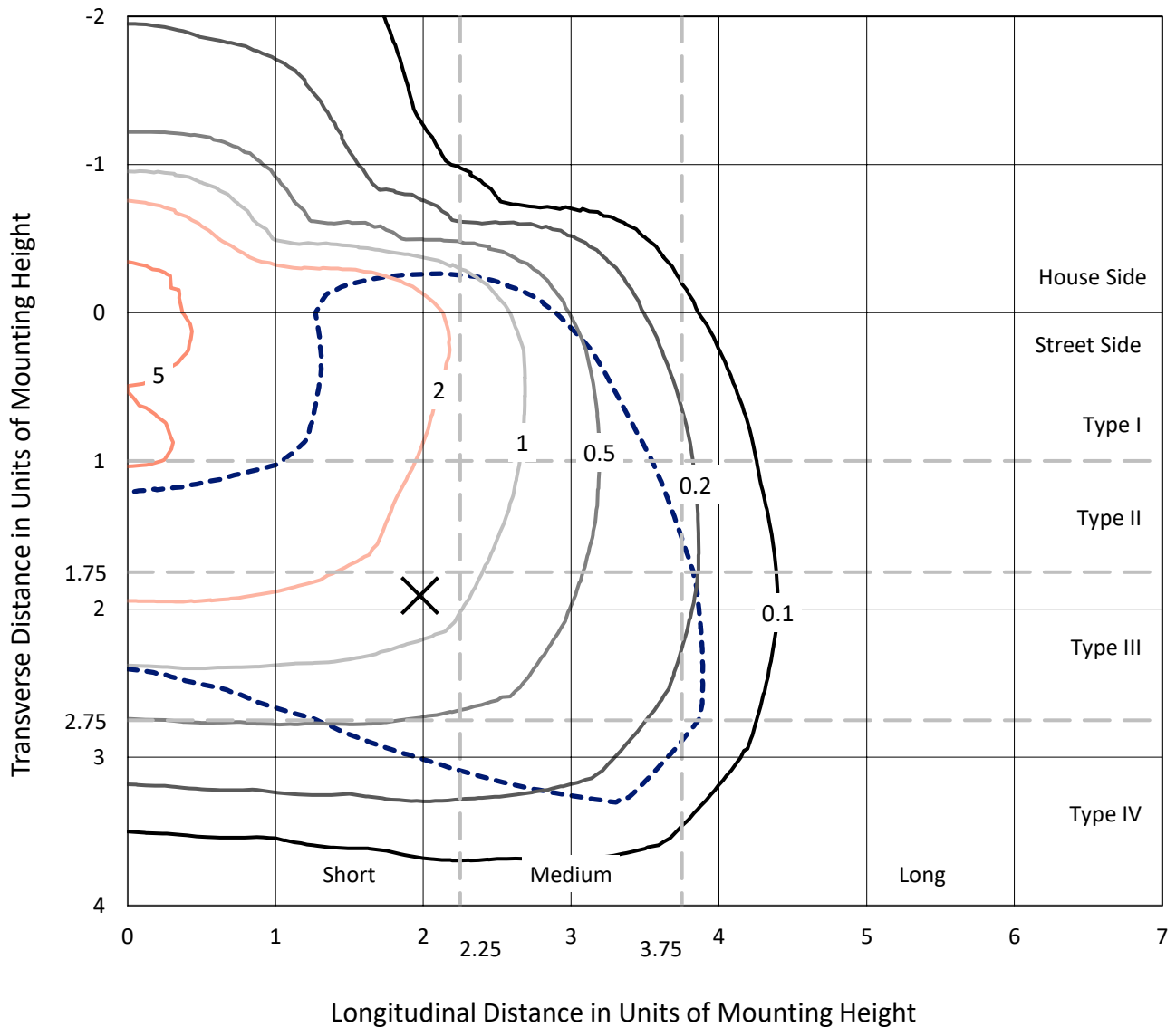
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

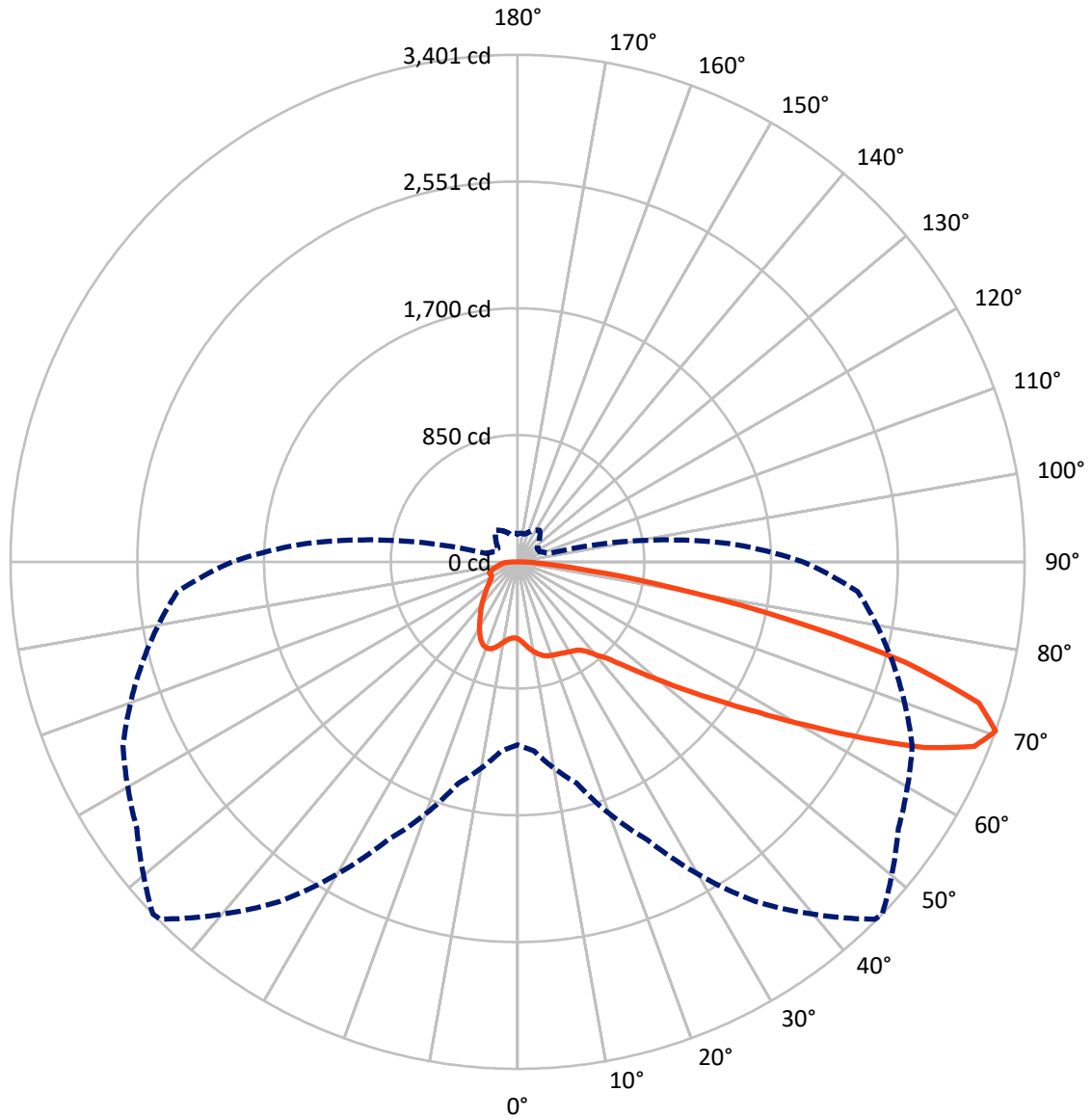
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical



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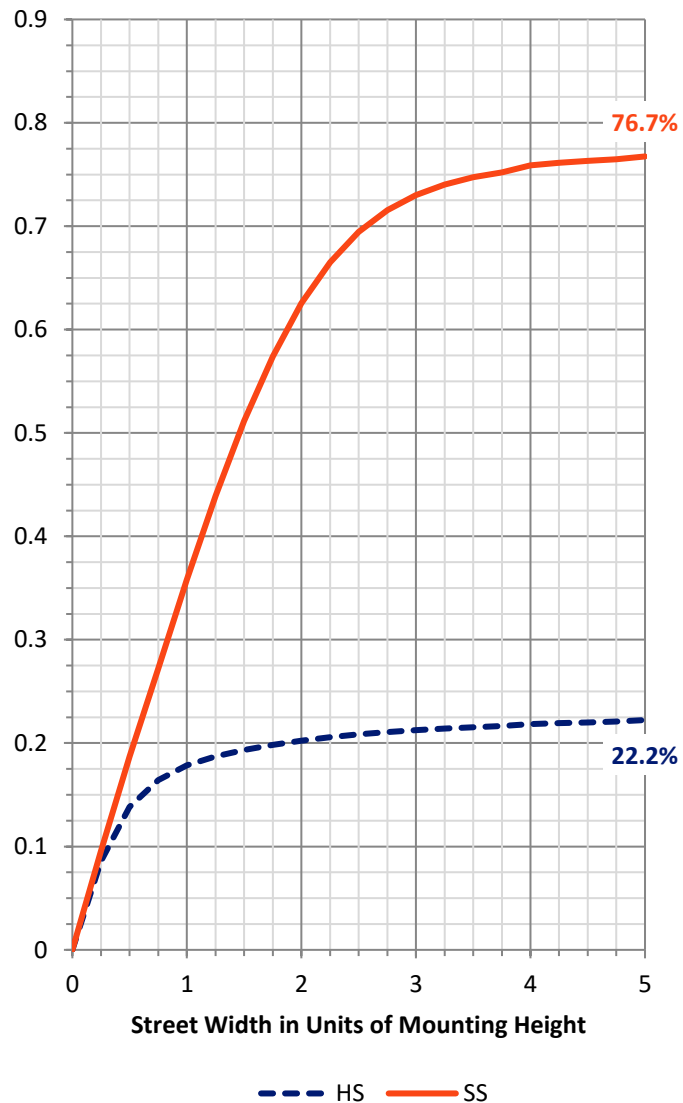
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1161.6	0.0	1161.6
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	3906.4	0.0	3906.4
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	5068.0	0.0	5068.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.6	1.0
10°-20°	175.4	3.5
20°-30°	292.4	5.8
30°-40°	414.9	8.2
40°-50°	610.4	12.0
50°-60°	1033.6	20.4
60°-70°	1467.2	29.0
70°-80°	891.4	17.6
80°-90°	130.1	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°	5068.0	100.0
0°-180°	5068.0	100.0

**Coefficient of Utilization**

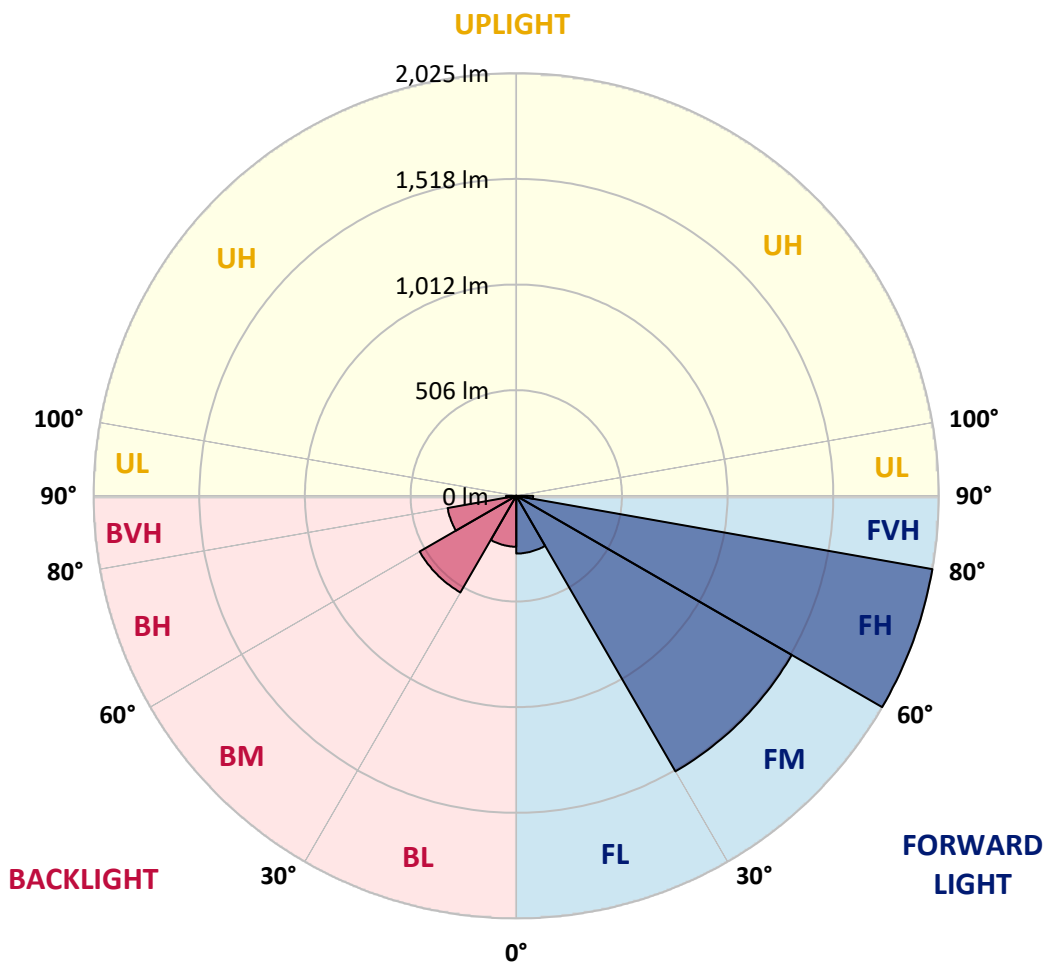


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	276.5	5.5			
FM (30°-60°)	1524.2	30.1			
FH (60°-80°)	2024.6	39.9			G2/5000
FVH (80°-90°)	81.0	1.6			G1/100
BL (0°-30°)	243.9	4.8	B1/500		
BM (30°-60°)	534.7	10.6	B1/1000		
BH (60°-80°)	333.9	6.6	B1/500		G1/500
BVH (80°-90°)	49.1	1.0			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°	35°	45°	46°	55°	65°	75°	85°
0°	516.3	516.3	516.3	516.3	516.3	516.3	516.3	516.3	516.3	516.3	516.3
2.5°	542.2	542.5	543.2	541.5	536.6	535.2	534.7	529.7	526.4	521.5	517.4
5°	585.5	585.9	584.8	580.0	569.2	561.3	560.6	549.1	538.7	527.6	519.3
7.5°	630.8	631.3	628.0	618.8	603.7	589.9	589.0	573.4	557.6	540.8	528.3
10°	670.9	668.8	663.4	650.6	632.7	615.7	615.0	598.7	580.5	560.2	543.6
12.5°	697.6	695.8	688.9	673.3	653.7	638.1	636.7	621.6	603.9	581.7	561.8
15°	712.3	713.5	704.2	686.5	667.4	654.2	653.0	642.2	626.5	604.1	581.2
17.5°	714.2	715.3	706.2	688.7	673.1	664.1	663.6	656.5	645.0	623.5	599.6
20°	703.1	703.8	696.4	682.0	671.7	669.0	668.8	665.7	657.2	638.1	614.8
22.5°	687.0	687.5	682.1	671.7	668.3	672.6	673.8	672.6	666.5	648.7	626.8
25°	683.0	682.7	677.1	666.5	669.5	678.7	680.2	680.8	676.6	661.0	642.1
27.5°	702.3	701.0	690.5	673.5	675.4	686.5	688.6	693.6	691.0	677.3	659.4
30°	757.9	755.9	734.2	699.8	690.5	696.2	698.8	706.8	707.3	695.8	682.5
32.5°	851.9	849.3	810.5	749.1	716.0	706.1	708.5	720.5	726.9	718.0	703.6
35°	970.7	967.8	916.8	832.9	758.6	725.0	726.7	736.3	749.1	736.6	717.5
37.5°	1094.6	1087.5	1038.4	931.4	826.4	765.4	765.4	766.6	772.7	746.7	733.8
40°	1217.7	1210.6	1166.2	1047.2	914.2	829.0	825.1	798.2	793.3	770.9	766.6
42.5°	1332.2	1330.1	1303.9	1178.2	1017.2	891.7	886.1	840.5	841.5	827.7	827.8
45°	1453.9	1453.9	1432.6	1310.3	1137.2	992.2	986.7	919.6	930.0	923.6	939.0
47.5°	1553.3	1556.4	1553.5	1448.0	1276.9	1120.1	1110.0	1029.2	1058.3	1080.4	1125.3
50°	1654.8	1659.6	1660.2	1599.1	1445.6	1272.0	1260.6	1174.7	1239.7	1302.9	1391.2
52.5°	1802.0	1813.0	1769.4	1749.8	1652.4	1452.4	1441.1	1361.8	1470.4	1559.0	1711.2
55°	1938.5	1929.0	1898.0	1910.1	1873.7	1657.7	1649.2	1579.7	1727.5	1842.6	2040.2
57.5°	2012.4	2011.7	2042.9	2095.0	2112.3	1911.0	1903.8	1836.2	2017.3	2103.8	2349.1
60°	2099.1	2100.4	2177.7	2295.8	2367.3	2226.3	2223.2	2171.8	2298.8	2347.7	2591.4
62.5°	2111.3	2133.1	2266.3	2469.6	2605.9	2594.7	2601.6	2474.1	2550.6	2542.3	2772.3
65°	1971.7	2000.5	2241.5	2522.2	2843.2	2997.6	3004.0	2778.2	2749.2	2708.6	2837.0
67.5°	1685.5	1728.2	1990.0	2407.9	2921.4	3295.4	3304.4	3013.9	2914.0	2765.0	2681.2
70°	1226.6	1273.9	1537.5	2056.5	2782.0	3390.6	3400.8	3118.1	2920.2	2604.5	2288.9
72.5°	740.9	778.1	995.4	1514.0	2348.0	3217.1	3235.3	2985.9	2666.1	2206.2	1690.2
75°	325.4	349.7	481.3	872.4	1681.0	2661.8	2684.5	2555.8	2166.3	1603.3	999.0
77.5°	138.6	145.5	197.4	379.0	950.3	1818.9	1850.1	1867.4	1469.7	872.4	422.2
80°	86.4	89.1	111.7	171.5	444.7	1021.6	1055.2	1098.7	729.8	320.7	147.4
82.5°	52.6	55.7	74.2	103.7	231.5	463.1	479.2	509.9	283.2	138.6	76.3
85°	31.6	33.8	45.4	65.6	131.8	182.1	181.9	201.2	133.4	89.1	40.2
87.5°	15.1	16.8	24.3	34.0	66.4	68.3	64.0	72.5	81.0	58.4	20.3
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°	516.3	516.3	516.3	516.3	516.3	516.3	516.3	516.3	516.3	516.3	516.3
2.5°	516.0	515.3	513.0	511.3	511.0	509.9	509.0	509.6	510.3	510.4	510.4
5°	515.8	513.9	511.0	509.7	511.3	513.4	516.0	519.5	521.5	523.1	524.1
7.5°	524.1	520.5	517.2	516.5	519.6	525.2	531.1	538.4	543.4	546.9	547.5
10°	538.0	533.5	530.2	530.9	536.4	544.4	552.8	562.1	569.7	574.4	574.8
12.5°	554.0	549.6	546.5	549.5	558.6	568.4	577.0	585.2	592.1	596.8	596.8
15°	572.4	569.2	565.6	572.4	584.8	593.5	597.2	601.1	605.0	608.4	607.7
17.5°	590.0	587.1	585.2	593.2	606.2	610.2	607.7	604.8	604.8	606.7	607.0
20°	605.3	602.7	603.9	611.7	618.5	614.3	605.3	595.9	592.1	593.2	594.2
22.5°	618.7	617.4	621.1	624.7	619.9	605.3	588.7	576.0	571.3	571.0	571.3
25°	634.3	634.1	638.6	632.0	610.5	583.6	561.3	548.9	546.3	548.4	551.9
27.5°	653.7	655.6	657.9	633.7	591.4	550.8	528.1	519.6	522.2	527.3	530.6
30°	678.5	683.7	678.8	629.4	564.0	513.4	491.7	489.3	496.4	503.5	507.0
32.5°	702.6	710.8	699.0	618.1	528.6	473.7	456.8	456.1	464.8	471.8	476.6
35°	722.0	738.2	714.1	595.8	487.7	437.1	424.8	420.1	423.2	431.3	436.9
37.5°	747.4	774.2	724.5	561.6	443.3	406.9	392.5	381.7	379.0	382.3	385.0
40°	793.7	829.2	729.3	513.9	400.0	376.7	362.1	346.4	335.4	327.5	327.6
42.5°	869.3	900.8	726.2	456.0	359.9	347.2	330.7	312.5	294.8	276.8	275.4
45°	992.1	1007.3	716.8	394.6	324.7	316.4	300.9	282.7	259.1	238.7	236.7
47.5°	1188.6	1154.8	702.3	341.0	293.6	290.2	275.9	255.0	230.0	213.5	212.1
50°	1456.5	1367.6	695.1	298.3	266.2	267.3	255.7	233.4	209.9	197.7	196.3
52.5°	1777.1	1615.4	708.8	265.4	244.2	247.8	239.2	218.4	198.6	189.0	187.7
55°	2109.5	1872.1	723.6	241.4	223.4	230.5	227.6	210.4	192.5	183.7	182.5
57.5°	2394.2	2063.8	694.1	222.0	204.8	215.9	218.5	205.4	189.4	181.4	180.0
60°	2573.3	2140.9	616.8	203.8	190.1	204.3	213.3	204.0	190.6	189.9	188.9
62.5°	2658.3	2134.2	500.7	189.4	180.9	199.3	217.1	211.8	204.5	210.7	211.2
65°	2620.2	2032.2	372.9	179.9	174.3	201.2	228.6	226.5	208.5	214.7	215.6
67.5°	2369.0	1788.9	276.1	171.5	167.0	206.6	249.4	231.4	200.7	205.2	202.4
70°	1914.8	1418.2	213.0	162.2	159.6	205.9	258.8	228.4	192.2	193.2	185.8
72.5°	1320.4	967.1	173.3	153.5	148.8	187.7	252.2	221.1	185.1	177.1	167.2
75°	718.0	519.1	147.3	144.5	129.9	164.8	240.0	215.9	178.6	168.1	162.5
77.5°	282.5	215.4	127.8	132.2	113.6	145.5	226.5	206.0	169.8	155.9	153.1
80°	115.3	110.0	106.0	114.3	97.6	127.3	210.2	194.4	159.2	144.6	139.1
82.5°	65.4	68.3	82.4	90.2	79.3	117.2	202.4	185.1	146.6	129.6	123.0
85°	33.5	40.1	57.4	64.7	58.3	99.7	186.4	162.0	117.6	99.2	99.7
87.5°	16.1	22.4	36.2	40.6	37.8	72.2	139.3	117.4	91.6	72.5	70.2
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)