

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: P385667

Luminaire Tested: GAW-SA1B-727-U-T2

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P385667  
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-727-U-T2  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5007 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

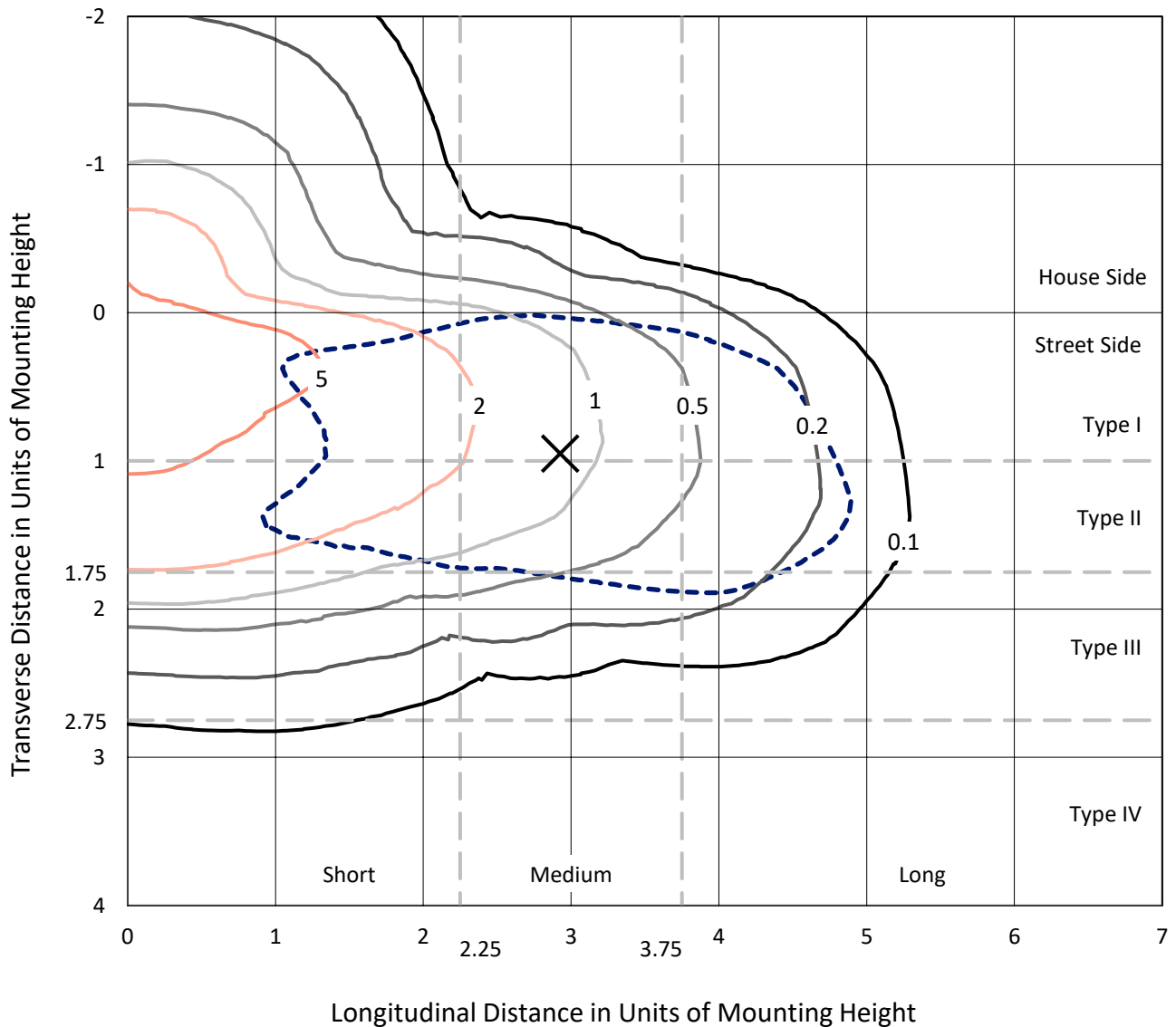
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

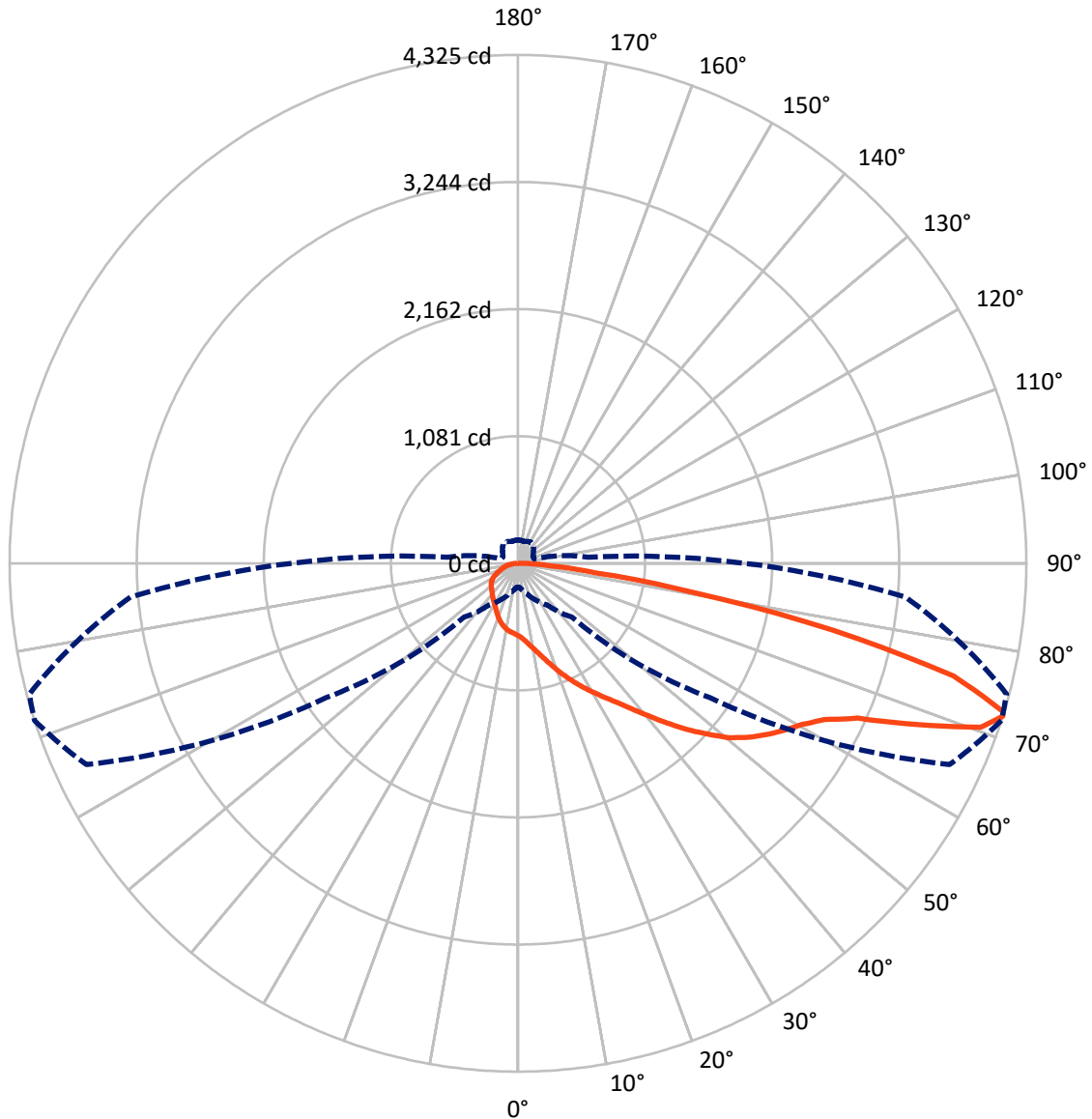
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 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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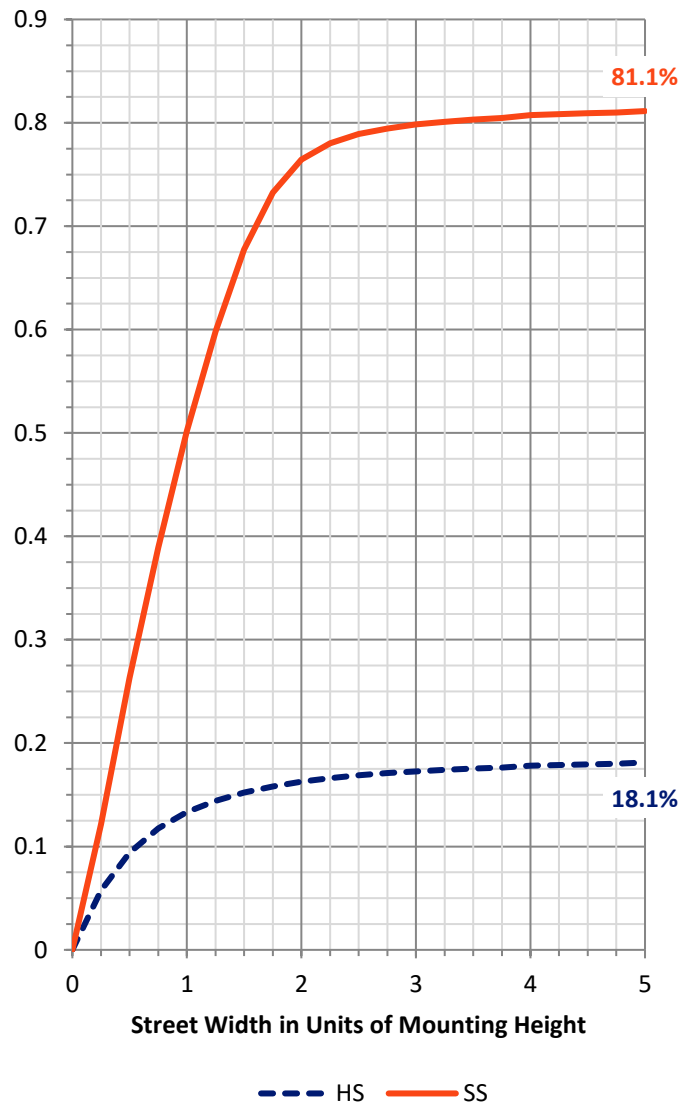
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	928.8	0.0	928.8
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	4078.2	0.0	4078.2
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	5007.0	0.0	5007.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.7	1.2
10°-20°	199.5	4.0
20°-30°	349.5	7.0
30°-40°	518.2	10.4
40°-50°	758.0	15.1
50°-60°	1042.9	20.8
60°-70°	1161.1	23.2
70°-80°	786.8	15.7
80°-90°	129.3	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°	5007.0	100.0
0°-180°	5007.0	100.0

**Coefficient of Utilization**

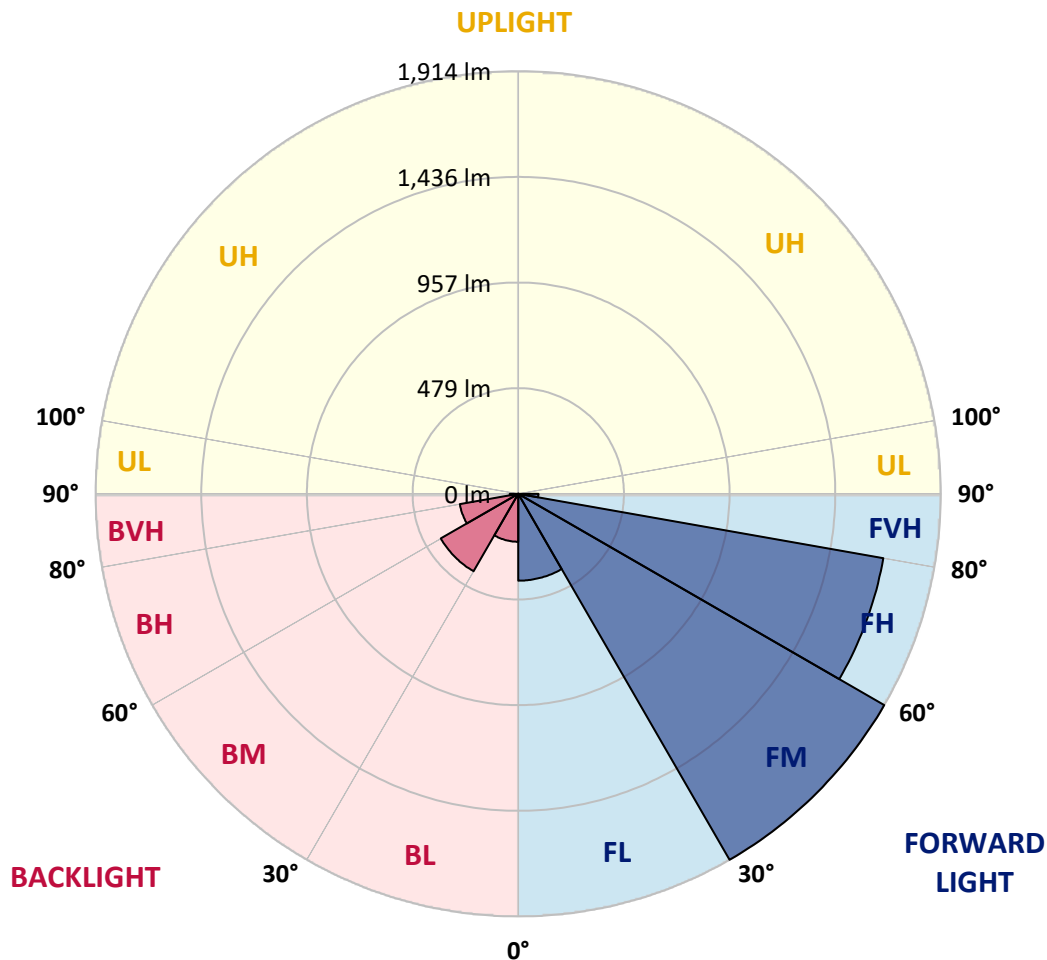


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	393.6	7.9			
FM (30°-60°)	1914.2	38.2			
FH (60°-80°)	1679.1	33.5			G1/1800
FVH (80°-90°)	91.2	1.8			G1/100
BL (0°-30°)	217.1	4.3	B1/500		
BM (30°-60°)	404.9	8.1	B1/1000		
BH (60°-80°)	268.7	5.4	B1/500		G1/500
BVH (80°-90°)	38.1	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-G1**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	616.0	616.0	616.0	616.0	616.0	616.0	616.0	616.0	616.0	616.0	616.0
2.5°	680.5	679.4	675.8	675.8	668.9	663.1	652.0	644.6	635.8	632.7	622.4
5°	746.3	746.7	742.2	739.1	728.9	716.5	697.7	680.6	663.6	656.7	635.5
7.5°	801.7	801.0	799.8	797.2	787.7	774.9	749.6	724.3	699.1	688.7	652.2
10°	837.2	838.7	839.8	841.0	837.0	827.9	803.9	773.0	740.1	726.0	672.2
12.5°	855.1	857.9	862.7	871.0	877.5	876.5	859.1	826.3	787.2	769.4	697.2
15°	865.6	869.2	876.8	891.7	910.1	920.6	916.0	886.3	842.7	820.8	727.7
17.5°	872.2	875.1	886.8	906.7	934.1	962.0	974.2	949.4	905.5	880.5	762.7
20°	876.7	878.9	893.6	916.8	952.3	996.8	1031.0	1024.8	974.6	942.2	799.3
22.5°	886.7	888.6	902.5	926.0	965.3	1022.7	1085.6	1094.9	1047.5	1010.8	838.4
25°	914.6	914.6	926.3	942.7	979.6	1045.1	1131.8	1173.0	1122.0	1079.2	874.6
27.5°	967.9	967.3	971.7	977.3	1005.3	1067.9	1173.0	1242.0	1199.2	1152.5	909.8
30°	1031.0	1034.4	1034.9	1032.2	1045.3	1096.3	1211.1	1314.7	1277.0	1226.6	945.8
32.5°	1112.2	1114.4	1111.8	1102.7	1100.8	1136.6	1248.5	1390.9	1361.1	1304.0	978.7
35°	1215.3	1211.0	1202.8	1184.2	1166.5	1190.6	1291.3	1467.1	1455.6	1397.7	1024.1
37.5°	1325.8	1325.9	1315.9	1273.7	1249.2	1259.6	1350.3	1553.5	1569.9	1509.0	1082.2
40°	1414.4	1419.0	1425.2	1369.7	1338.0	1352.3	1425.2	1653.7	1705.1	1641.1	1157.9
42.5°	1476.3	1481.6	1499.2	1464.4	1431.5	1458.0	1513.5	1760.6	1856.8	1793.5	1246.5
45°	1541.8	1544.7	1557.1	1542.1	1521.1	1580.9	1613.0	1871.2	2017.3	1955.9	1345.6
47.5°	1610.8	1613.9	1626.6	1616.6	1605.6	1695.7	1716.8	1975.6	2171.1	2134.3	1451.5
50°	1695.9	1698.0	1710.1	1692.0	1695.4	1782.3	1809.5	2071.2	2332.3	2294.7	1557.7
52.5°	1812.1	1812.6	1829.4	1813.0	1796.8	1845.7	1889.4	2161.4	2458.6	2440.9	1663.8
55°	1903.1	1908.7	1963.5	1960.0	1950.7	1903.3	1956.1	2247.3	2571.4	2579.8	1776.6
57.5°	1845.0	1866.6	1977.6	2055.9	2132.1	2046.6	2046.2	2344.0	2676.2	2716.2	1900.6
60°	1615.9	1645.2	1808.8	1982.4	2220.9	2295.9	2233.5	2462.1	2782.0	2851.4	2055.9
62.5°	1154.1	1202.3	1424.0	1701.3	2099.2	2461.0	2614.5	2649.5	2926.0	3007.9	2257.8
65°	583.4	620.0	805.8	1139.7	1677.1	2353.1	3028.6	3059.8	3176.2	3248.9	2568.6
67.5°	354.5	368.3	458.9	633.9	1028.2	1833.0	3163.7	3743.7	3660.3	3698.9	3011.9
70°	261.2	271.4	327.9	421.0	591.3	1075.6	2748.9	4231.8	4177.0	4172.6	3339.4
72°	203.4	210.8	260.8	340.1	432.4	645.3	1992.4	4051.6	4324.9	4303.1	3309.4
72.5°	192.9	199.5	245.0	320.2	408.6	585.0	1791.4	3930.1	4314.2	4304.4	3270.6
75°	151.9	156.5	181.4	247.6	319.8	331.9	981.7	3045.7	3827.1	3986.3	2941.7
77.5°	125.7	126.4	139.5	180.2	249.3	234.6	482.2	2113.1	2740.5	2915.5	2083.8
80°	102.4	103.3	109.5	126.4	188.6	173.6	228.9	1215.1	1534.4	1536.3	991.0
82.5°	81.5	81.7	88.6	92.4	135.5	124.1	131.2	570.5	670.5	645.0	356.2
85°	57.4	56.2	86.5	75.9	88.6	79.6	72.4	225.8	277.2	265.2	111.5
87.5°	19.1	19.8	38.4	49.1	51.7	45.2	32.2	86.5	104.6	103.8	35.3
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°	616.0	616.0	616.0	616.0	616.0	616.0	616.0	616.0	616.0	616.0	616.0
2.5°	619.1	613.6	605.5	596.5	589.4	582.2	576.9	574.1	571.0	568.4	571.5
5°	625.6	615.3	598.1	581.2	568.8	557.7	549.8	545.7	541.9	539.3	539.6
7.5°	636.3	619.6	590.6	566.0	548.8	536.9	528.8	526.0	523.6	522.9	523.8
10°	647.7	623.1	580.8	548.1	528.4	518.6	515.0	516.9	518.6	520.1	521.9
12.5°	660.6	626.2	566.5	527.0	510.3	506.5	510.1	518.4	524.4	528.1	530.3
15°	677.5	628.9	550.0	506.0	494.8	499.1	511.3	525.7	536.2	542.9	543.9
17.5°	693.1	628.7	528.8	484.8	482.2	494.8	513.2	533.4	547.5	557.0	558.9
20°	709.1	624.1	504.1	464.1	469.5	490.1	514.1	538.4	555.5	566.5	569.1
22.5°	724.1	616.0	477.0	445.3	458.8	483.9	510.8	535.5	552.5	561.5	564.3
25°	734.3	601.9	449.6	429.5	449.3	476.3	500.1	520.0	532.7	537.2	537.9
27.5°	739.4	583.4	423.8	415.7	439.5	463.9	480.3	490.1	493.8	493.4	492.7
30°	740.1	559.1	401.5	404.5	428.1	445.7	453.4	451.5	446.9	438.9	439.6
32.5°	737.9	531.7	382.9	393.8	413.6	423.4	423.8	414.6	402.2	389.6	386.2
35°	738.6	504.8	366.5	381.7	396.0	400.3	396.4	382.9	366.0	349.8	346.4
37.5°	746.2	481.3	352.4	367.7	376.5	377.6	371.9	357.7	345.3	329.5	328.1
40°	764.3	464.6	338.9	352.0	357.0	357.6	349.5	339.5	340.5	332.0	331.9
42.5°	796.8	457.4	327.0	335.7	338.8	339.8	333.6	327.2	336.2	330.7	328.8
45°	838.9	459.1	317.0	319.6	325.3	330.1	326.4	318.6	322.0	298.1	290.2
47.5°	887.5	470.1	309.1	305.8	315.7	324.8	318.9	307.2	295.0	271.2	266.7
50°	944.4	487.2	301.9	292.2	305.2	317.6	311.7	295.0	276.5	265.0	263.4
52.5°	1003.7	508.1	294.6	277.2	291.9	312.0	309.1	292.2	269.5	258.1	256.0
55°	1071.0	529.1	285.5	259.8	277.6	309.5	307.9	282.2	264.1	257.7	256.2
57.5°	1154.6	553.1	273.4	241.7	264.1	300.2	295.3	276.2	258.6	253.8	253.3
60°	1263.5	588.4	256.0	222.4	247.7	285.8	284.8	267.4	249.8	246.4	245.7
62.5°	1427.0	646.9	232.1	203.1	229.5	261.5	271.0	255.5	240.5	240.3	240.7
65°	1680.4	734.8	206.0	186.2	211.0	241.0	255.0	243.3	231.0	234.5	235.0
67.5°	1974.2	807.7	180.5	169.6	192.2	221.5	240.5	231.0	218.4	227.4	227.6
70°	2071.9	742.5	158.1	153.3	172.7	202.7	224.8	217.6	204.8	213.8	212.9
72°	1928.1	599.4	143.6	140.9	158.1	187.2	210.8	205.0	192.4	198.4	196.2
72.5°	1882.8	571.5	140.0	137.7	154.1	183.3	207.2	201.9	189.3	194.5	192.4
75°	1679.5	496.3	120.3	120.9	134.5	164.0	186.9	185.2	172.2	172.7	172.1
77.5°	1218.2	363.9	101.4	104.8	114.5	144.1	166.4	165.3	151.2	148.6	148.1
80°	565.3	185.7	82.6	84.1	94.1	120.5	141.9	140.5	129.1	125.9	124.0
82.5°	193.6	88.3	62.1	63.1	72.9	97.1	123.1	122.2	112.8	106.4	102.4
85°	69.1	44.0	43.4	42.4	52.1	76.4	107.2	102.6	88.6	75.5	75.2
87.5°	22.4	18.8	22.4	22.2	30.3	51.7	77.9	66.4	64.3	53.4	52.4
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)