

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: P385453

Luminaire Tested: GAW-SA1A-727-U-T4W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P385453  
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-SA1A-727-U-T4W  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4134 lumens  
Efficiency: N/A  
Efficacy: 121.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

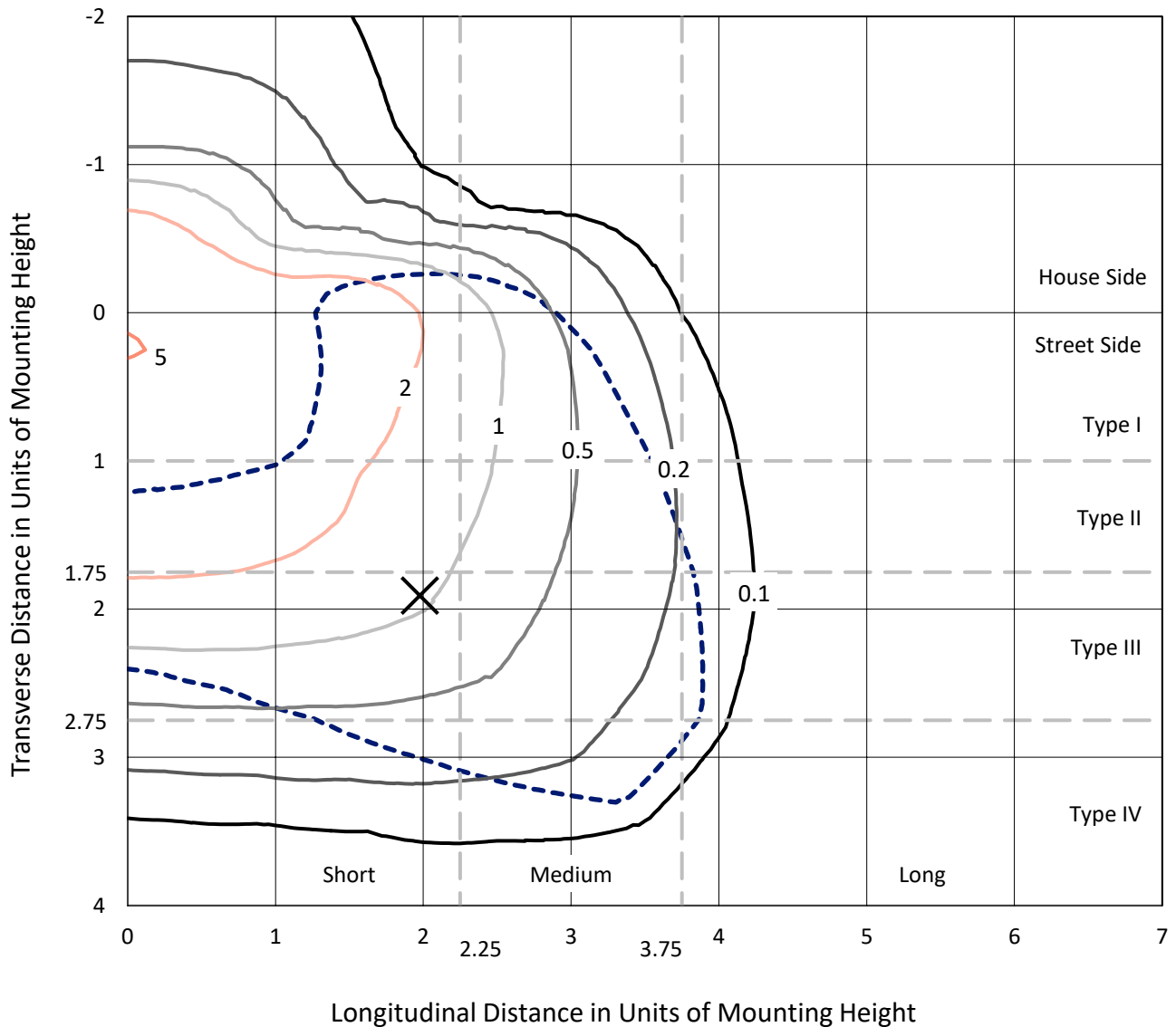
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

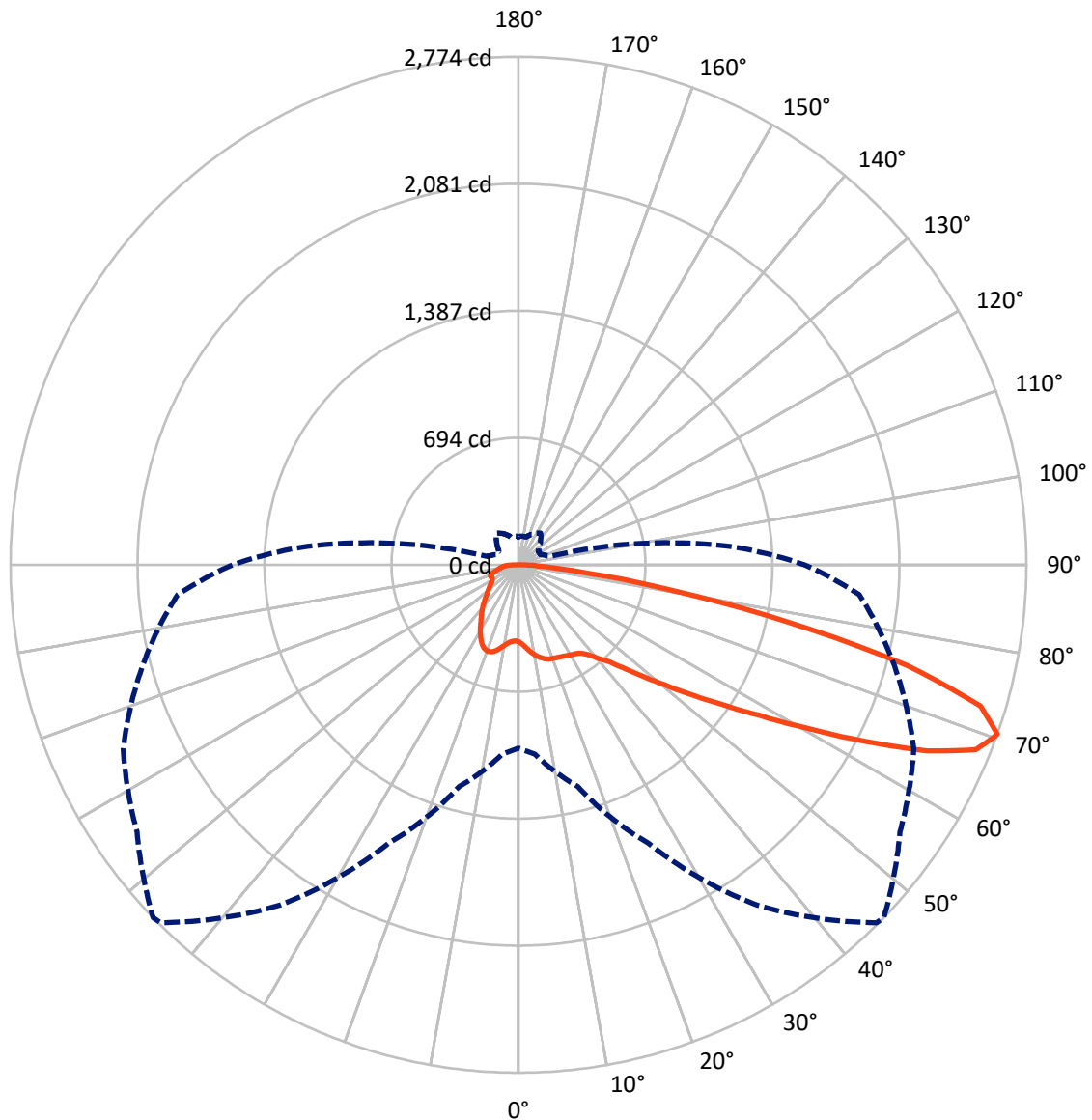
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.3 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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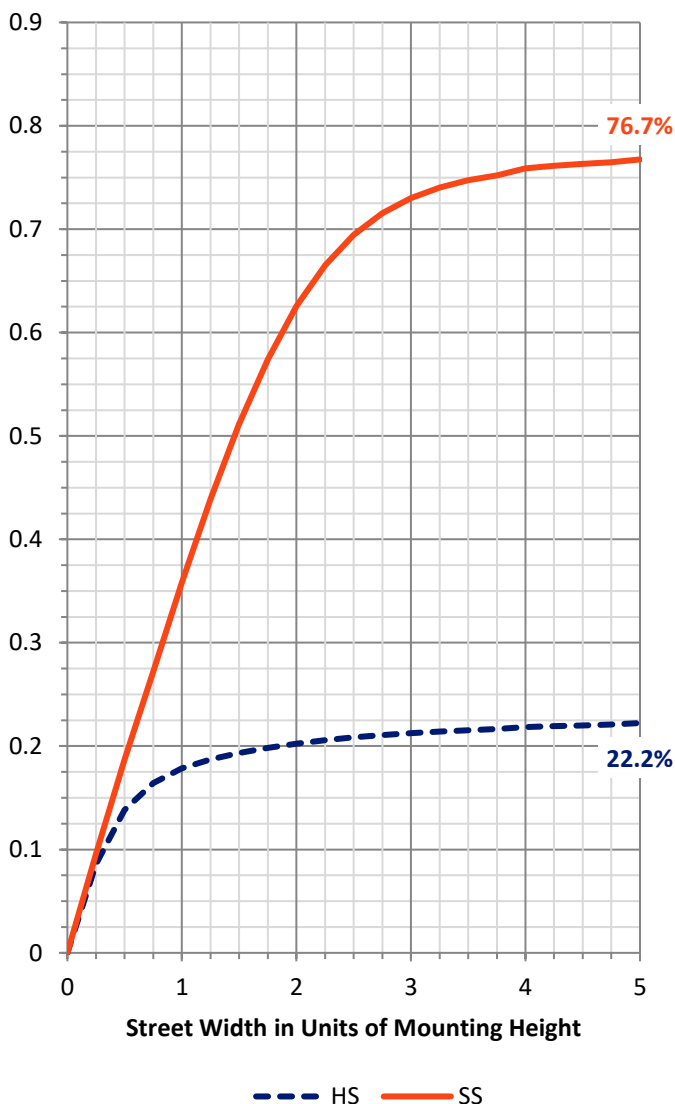
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	947.5	0.0	947.5
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	3186.5	0.0	3186.5
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	4134.0	0.0	4134.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.9	1.0
10°-20°	143.0	3.5
20°-30°	238.5	5.8
30°-40°	338.5	8.2
40°-50°	497.9	12.0
50°-60°	843.1	20.4
60°-70°	1196.8	29.0
70°-80°	727.1	17.6
80°-90°	106.1	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°	4134.0	100.0
0°-180°	4134.0	100.0

**Coefficient of Utilization**

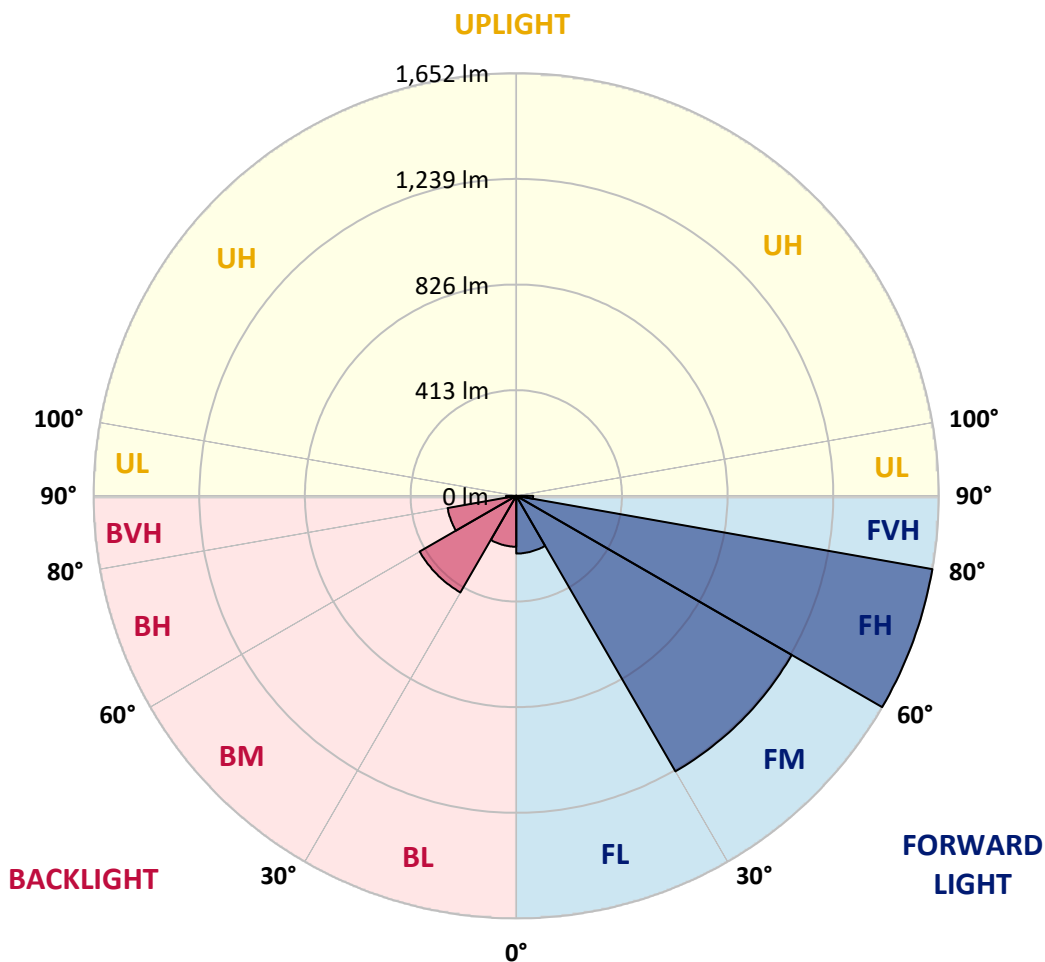


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	225.6	5.5			
FM (30°-60°)	1243.3	30.1			
FH (60°-80°)	1651.5	39.9			G1/1800
FVH (80°-90°)	66.1	1.6			G1/100
BL (0°-30°)	198.9	4.8	B1/500		
BM (30°-60°)	436.2	10.6	B1/1000		
BH (60°-80°)	272.4	6.6	B1/500		G1/500
BVH (80°-90°)	40.0	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-G1**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	421.2	421.2	421.2	421.2	421.2	421.2	421.2	421.2	421.2	421.2	421.2
2.5°	442.3	442.5	443.1	441.7	437.7	436.6	436.2	432.1	429.4	425.4	422.0
5°	477.6	477.9	477.1	473.1	464.3	457.8	457.3	447.9	439.4	430.4	423.6
7.5°	514.5	515.0	512.3	504.8	492.5	481.2	480.5	467.7	454.8	441.1	430.9
10°	547.2	545.5	541.1	530.7	516.1	502.2	501.7	488.4	473.5	457.0	443.4
12.5°	569.0	567.6	561.9	549.2	533.2	520.5	519.4	507.0	492.6	474.5	458.2
15°	581.0	582.0	574.4	560.0	544.4	533.6	532.7	523.9	511.0	492.8	474.1
17.5°	582.6	583.4	576.1	561.8	549.1	541.7	541.3	535.5	526.1	508.6	489.1
20°	573.5	574.1	568.0	556.3	547.9	545.7	545.5	543.0	536.1	520.5	501.5
22.5°	560.4	560.8	556.4	547.9	545.1	548.6	549.6	548.6	543.7	529.1	511.3
25°	557.1	556.8	552.3	543.7	546.1	553.6	554.9	555.3	551.9	539.2	523.7
27.5°	572.8	571.8	563.2	549.4	550.9	560.0	561.7	565.8	563.6	552.5	537.9
30°	618.2	616.6	598.9	570.9	563.2	567.9	570.0	576.5	576.9	567.6	556.7
32.5°	694.9	692.8	661.1	611.0	584.0	575.9	577.9	587.7	592.9	585.7	574.0
35°	791.8	789.4	747.8	679.4	618.8	591.4	592.8	600.6	611.0	600.8	585.3
37.5°	892.9	887.1	847.0	759.7	674.1	624.3	624.3	625.3	630.3	609.1	598.6
40°	993.3	987.5	951.3	854.2	745.7	676.3	673.0	651.1	647.1	628.9	625.3
42.5°	1086.7	1085.0	1063.6	961.0	829.8	727.3	722.8	685.6	686.4	675.1	675.3
45°	1186.0	1186.0	1168.6	1068.9	927.7	809.4	804.9	750.1	758.6	753.4	766.0
47.5°	1267.1	1269.6	1267.2	1181.2	1041.5	913.7	905.4	839.5	863.3	881.3	917.9
50°	1349.8	1353.8	1354.2	1304.4	1179.2	1037.6	1028.2	958.2	1011.3	1062.8	1134.8
52.5°	1469.9	1478.8	1443.3	1427.4	1347.8	1184.7	1175.5	1110.9	1199.4	1271.7	1395.8
55°	1581.3	1573.5	1548.2	1558.1	1528.4	1352.2	1345.3	1288.6	1409.1	1503.0	1664.2
57.5°	1641.5	1641.0	1666.4	1708.9	1723.0	1558.8	1553.0	1497.8	1645.5	1716.1	1916.1
60°	1712.3	1713.3	1776.4	1872.7	1931.0	1816.0	1813.4	1771.6	1875.1	1915.0	2113.8
62.5°	1722.2	1740.0	1848.7	2014.5	2125.7	2116.5	2122.1	2018.2	2080.5	2073.8	2261.4
65°	1608.3	1631.8	1828.4	2057.3	2319.2	2445.1	2450.4	2266.2	2242.5	2209.4	2314.1
67.5°	1374.9	1409.7	1623.3	1964.1	2383.0	2688.0	2695.4	2458.4	2376.9	2255.4	2187.1
70°	1000.5	1039.1	1254.2	1677.5	2269.3	2765.7	2774.1	2543.5	2382.0	2124.5	1867.1
72.5°	604.4	634.7	811.9	1234.9	1915.3	2624.2	2639.1	2435.6	2174.8	1799.6	1378.7
75°	265.4	285.2	392.6	711.6	1371.2	2171.2	2189.8	2084.8	1767.0	1307.8	814.9
77.5°	113.0	118.7	161.0	309.1	775.1	1483.7	1509.1	1523.3	1198.9	711.6	344.4
80°	70.5	72.7	91.1	139.9	362.7	833.3	860.7	896.2	595.3	261.6	120.3
82.5°	42.9	45.4	60.6	84.6	188.9	377.7	390.9	415.9	231.0	113.0	62.2
85°	25.7	27.6	37.1	53.5	107.5	148.5	148.4	164.1	108.8	72.7	32.8
87.5°	12.3	13.7	19.8	27.7	54.2	55.7	52.2	59.1	66.1	47.7	16.6
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°	421.2	421.2	421.2	421.2	421.2	421.2	421.2	421.2	421.2	421.2	421.2
2.5°	420.9	420.3	418.5	417.1	416.8	415.9	415.2	415.7	416.2	416.4	416.4
5°	420.7	419.2	416.8	415.8	417.1	418.8	420.9	423.7	425.4	426.7	427.5
7.5°	427.5	424.6	421.9	421.3	423.9	428.4	433.2	439.1	443.2	446.1	446.6
10°	438.9	435.2	432.5	433.1	437.6	444.1	450.9	458.5	464.7	468.6	468.9
12.5°	451.9	448.3	445.8	448.2	455.7	463.6	470.7	477.3	483.0	486.8	486.8
15°	466.9	464.3	461.4	466.9	477.1	484.1	487.1	490.4	493.5	496.3	495.7
17.5°	481.3	478.9	477.3	483.8	494.5	497.7	495.7	493.3	493.3	494.9	495.2
20°	493.8	491.6	492.6	499.0	504.5	501.1	493.8	486.1	483.0	483.8	484.7
22.5°	504.6	503.7	506.6	509.6	505.6	493.8	480.2	469.8	466.0	465.7	466.0
25°	517.4	517.2	520.9	515.5	498.0	476.1	457.8	447.8	445.6	447.3	450.2
27.5°	533.2	534.8	536.6	517.0	482.4	449.3	430.8	423.9	426.0	430.1	432.8
30°	553.5	557.7	553.7	513.4	460.1	418.8	401.1	399.1	404.9	410.7	413.5
32.5°	573.1	579.8	570.1	504.2	431.2	386.4	372.6	372.1	379.2	384.8	388.8
35°	589.0	602.1	582.5	486.0	397.8	356.5	346.5	342.7	345.2	351.9	356.4
37.5°	609.6	631.5	590.9	458.1	361.6	331.9	320.2	311.4	309.1	311.8	314.1
40°	647.4	676.4	594.9	419.2	326.2	307.3	295.4	282.5	273.6	267.1	267.2
42.5°	709.1	734.8	592.4	371.9	293.6	283.2	269.8	254.9	240.5	225.8	224.7
45°	809.2	821.7	584.7	321.9	264.8	258.1	245.5	230.6	211.4	194.7	193.1
47.5°	969.5	941.9	572.8	278.1	239.5	236.7	225.1	208.0	187.6	174.2	173.0
50°	1188.1	1115.5	567.0	243.3	217.2	218.0	208.5	190.4	171.2	161.3	160.2
52.5°	1449.6	1317.7	578.2	216.5	199.2	202.2	195.1	178.1	162.0	154.2	153.1
55°	1720.8	1527.1	590.2	196.9	182.2	188.0	185.6	171.6	157.0	149.8	148.8
57.5°	1952.9	1683.4	566.2	181.1	167.1	176.1	178.3	167.5	154.5	148.0	146.9
60°	2099.1	1746.4	503.1	166.2	155.1	166.7	174.0	166.4	155.5	154.9	154.1
62.5°	2168.4	1740.9	408.4	154.5	147.6	162.6	177.1	172.7	166.8	171.9	172.3
65°	2137.3	1657.7	304.2	146.7	142.2	164.1	186.5	184.8	170.1	175.1	175.9
67.5°	1932.4	1459.2	225.2	139.9	136.2	168.5	203.4	188.7	163.7	167.4	165.1
70°	1561.9	1156.8	173.7	132.3	130.2	167.9	211.1	186.3	156.8	157.6	151.5
72.5°	1077.1	788.9	141.3	125.2	121.4	153.1	205.7	180.4	151.0	144.4	136.4
75°	585.7	423.4	120.1	117.8	106.0	134.4	195.8	176.1	145.7	137.1	132.6
77.5°	230.5	175.7	104.3	107.8	92.7	118.7	184.8	168.1	138.5	127.2	124.9
80°	94.1	89.7	86.4	93.2	79.7	103.8	171.5	158.6	129.9	118.0	113.5
82.5°	53.3	55.7	67.2	73.6	64.7	95.6	165.1	151.0	119.5	105.7	100.3
85°	27.3	32.7	46.8	52.8	47.5	81.3	152.1	132.1	95.9	80.9	81.3
87.5°	13.2	18.3	29.6	33.1	30.8	58.9	113.6	95.8	74.7	59.1	57.3
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)