

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: P386096

Luminaire Tested: GAW-SA1D-722-U-T4W-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386096  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA1D-722-U-T4W-HSS  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 2200K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4415 lumens  
Efficiency: N/A  
Efficacy: 66.9 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

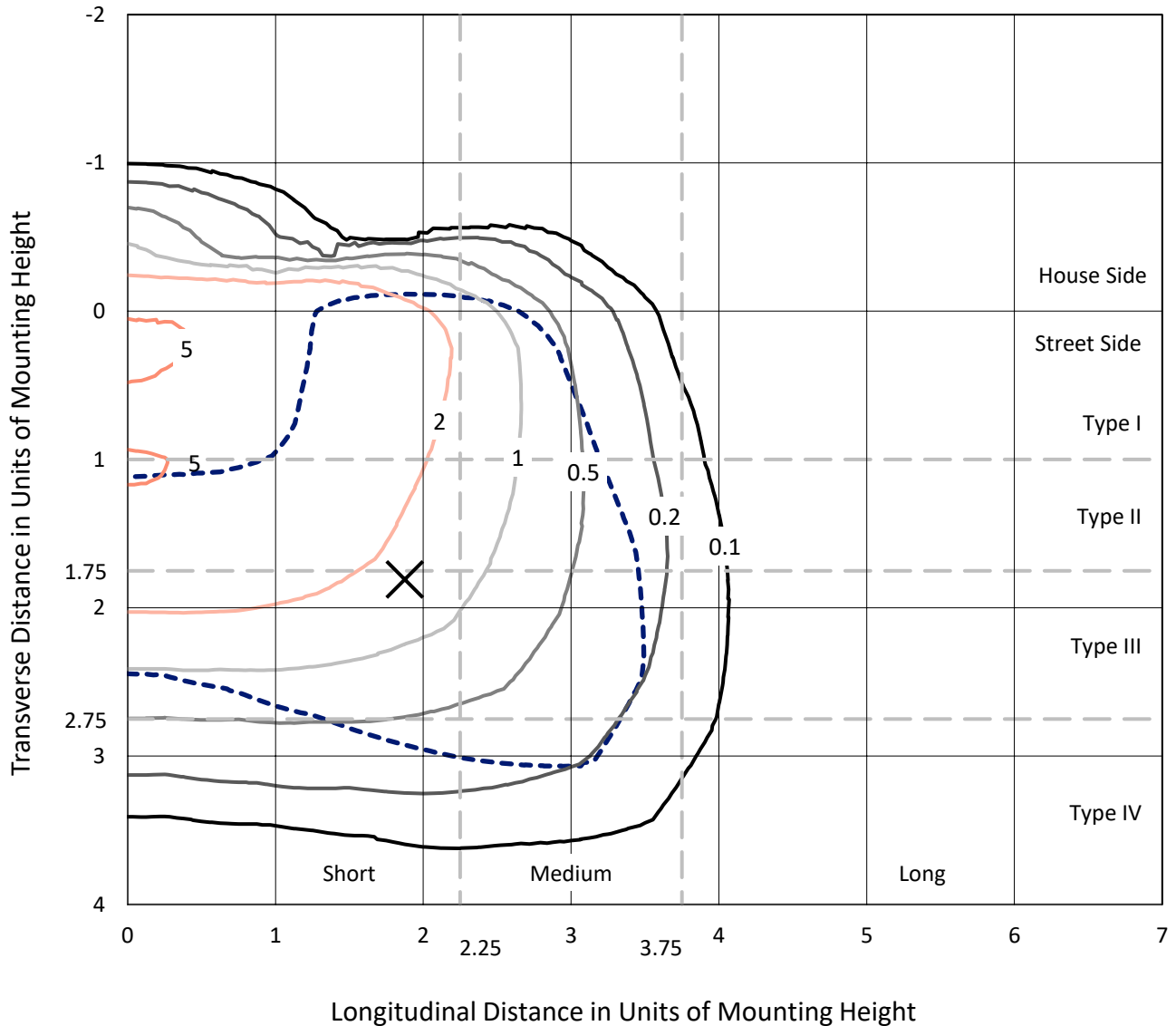
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

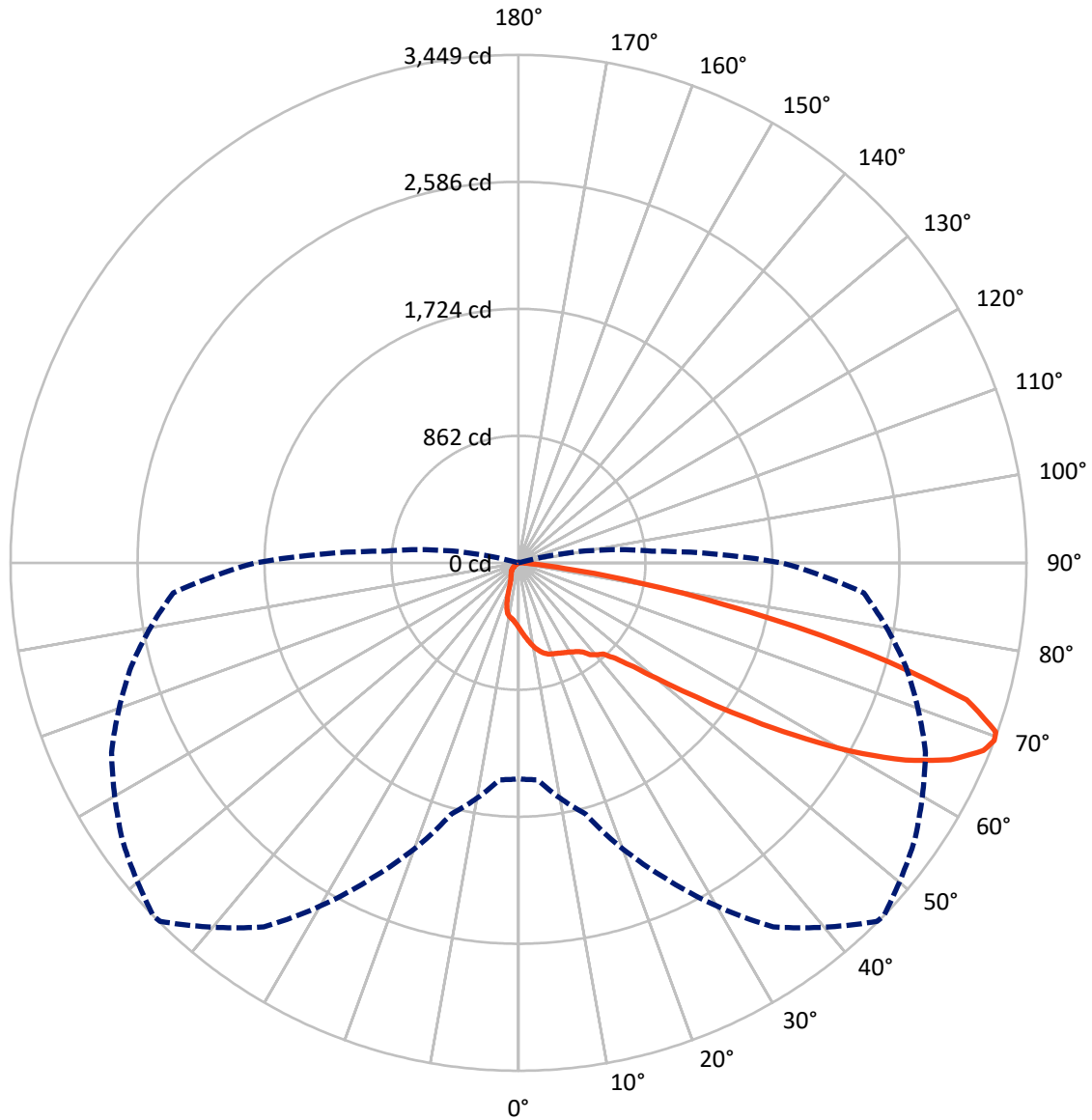
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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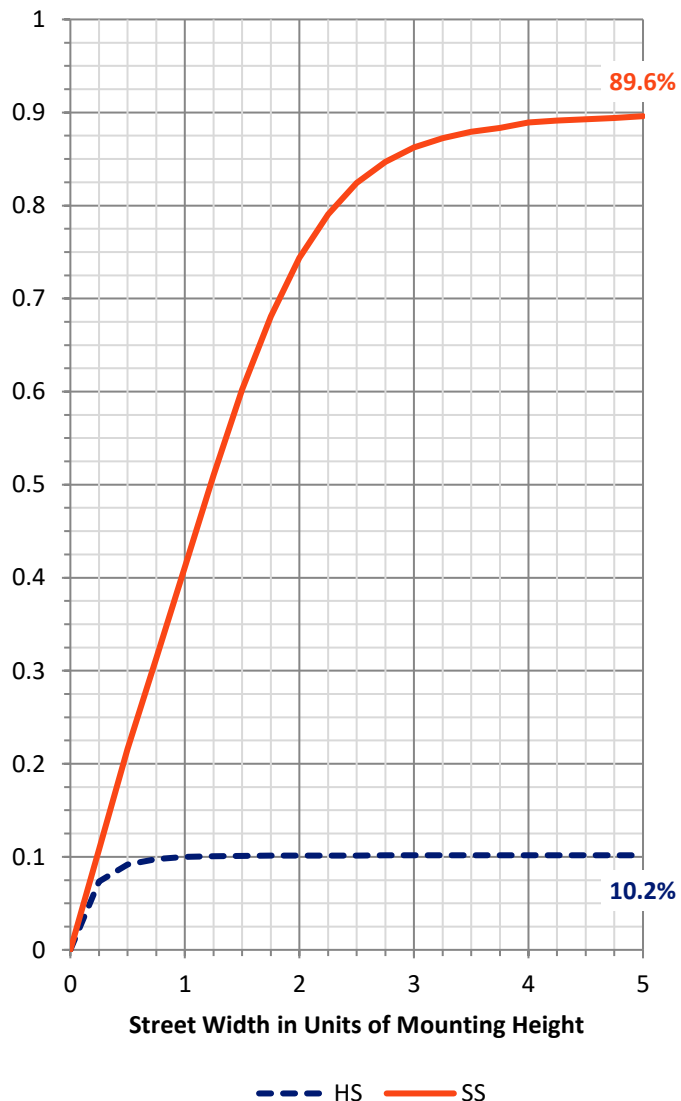
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	453.1	0.0	453.1
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	3961.9	0.0	3961.9
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	4415.0	0.0	4415.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.0	1.0
10°-20°	133.6	3.0
20°-30°	210.1	4.8
30°-40°	301.3	6.8
40°-50°	520.7	11.8
50°-60°	1028.6	23.3
60°-70°	1437.6	32.6
70°-80°	694.5	15.7
80°-90°	44.6	1.0
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°	4415.0	100.0
0°-180°	4415.0	100.0

**Coefficient of Utilization**

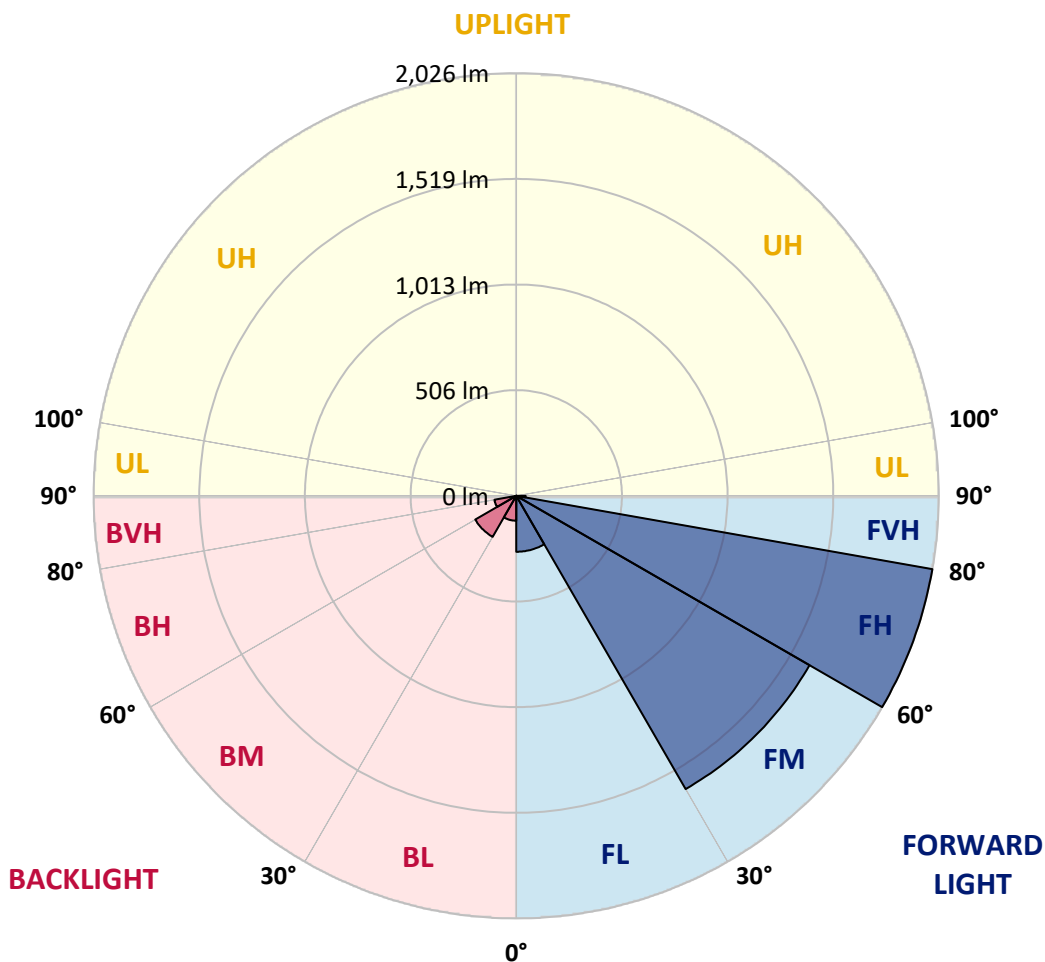


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	268.3	6.1			
FM (30°-60°)	1623.5	36.8			
FH (60°-80°)	2025.9	45.9			G2/5000
FVH (80°-90°)	44.3	1.0			G1/100
BL (0°-30°)	119.4	2.7	B1/500		
BM (30°-60°)	227.1	5.1	B1/1000		
BH (60°-80°)	106.2	2.4	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
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°	442.4	442.4	442.4	442.4	442.4	442.4	442.4	442.4	442.4	442.4	442.4
2.5°	491.4	490.8	487.9	486.7	479.6	475.5	473.8	468.7	461.2	453.8	445.5
5°	547.3	547.1	541.7	536.6	523.3	510.9	508.6	496.6	479.8	464.1	448.4
7.5°	604.5	601.8	596.4	586.4	567.2	547.3	545.5	528.5	504.7	481.9	459.3
10°	652.9	651.2	644.2	629.1	606.5	584.0	581.7	560.8	533.9	505.9	477.1
12.5°	690.6	689.3	680.0	661.2	637.2	613.8	610.7	592.0	563.3	532.0	498.1
15°	713.5	712.9	701.5	681.5	657.9	637.6	634.9	618.5	591.8	559.1	520.8
17.5°	718.9	719.1	707.3	687.0	667.6	653.1	651.0	638.6	616.2	583.7	543.6
20°	706.9	709.4	698.8	681.2	669.2	661.6	659.9	652.5	633.6	603.0	561.8
22.5°	689.9	691.2	683.9	672.1	667.2	668.6	667.8	663.7	647.7	619.6	579.8
25°	679.6	679.6	675.2	665.3	668.6	677.5	677.7	676.9	664.3	639.8	601.8
27.5°	679.2	677.9	673.0	665.5	674.6	688.3	689.1	694.7	686.8	664.5	629.1
30°	695.7	694.3	683.7	674.0	685.6	700.3	702.4	714.6	710.6	691.2	659.5
32.5°	734.4	729.3	705.9	689.9	698.6	716.2	718.9	738.4	744.6	724.1	688.9
35°	787.4	771.1	737.3	720.2	721.0	739.4	741.9	770.5	788.9	754.3	711.7
37.5°	860.5	852.4	797.6	751.6	755.4	783.3	790.5	821.6	816.4	770.9	737.6
40°	1020.7	1008.1	949.7	839.8	788.3	818.9	821.2	837.7	838.2	808.3	791.4
42.5°	1238.9	1233.7	1172.3	999.8	853.1	842.7	846.9	874.8	906.1	887.4	886.6
45°	1480.5	1477.8	1412.6	1212.2	984.1	920.8	925.9	963.4	1023.2	1027.4	1053.6
47.5°	1674.9	1673.6	1636.2	1449.2	1184.7	1053.0	1054.7	1094.4	1199.6	1251.5	1293.6
50°	1852.1	1858.1	1828.5	1705.7	1457.9	1260.2	1256.3	1282.8	1451.7	1536.8	1589.0
52.5°	2098.4	2106.9	2023.9	1945.0	1744.6	1517.3	1514.2	1542.0	1754.8	1818.5	1827.8
55°	2316.0	2301.5	2235.8	2213.1	2094.3	1834.9	1834.1	1858.5	2047.9	2075.0	2092.2
57.5°	2412.0	2406.4	2438.1	2490.3	2460.4	2210.2	2208.3	2189.7	2310.2	2313.1	2365.8
60°	2472.7	2479.5	2576.6	2737.4	2811.7	2614.0	2602.0	2488.4	2560.6	2554.2	2610.7
62.5°	2427.1	2440.6	2615.3	2883.4	3074.6	2966.6	2949.6	2762.0	2774.7	2752.5	2805.1
65°	2185.3	2206.2	2492.5	2855.8	3205.0	3242.1	3224.9	3003.6	2944.6	2908.2	2879.0
67.5°	1774.4	1786.9	2085.8	2616.3	3146.2	3406.4	3402.9	3215.4	3073.0	2881.9	2655.4
69°	1466.4	1478.6	1766.4	2364.2	3016.9	3441.6	3448.5	3283.3	3048.5	2722.1	2352.8
70°	1242.0	1255.1	1523.1	2148.1	2866.8	3425.3	3437.5	3276.9	2978.6	2537.0	2087.2
72.5°	651.4	662.6	937.7	1479.9	2337.1	3145.2	3182.3	2999.9	2524.8	1842.5	1234.2
75°	204.7	211.1	366.2	773.6	1600.1	2445.5	2454.0	2353.2	1792.9	1013.5	514.0
77.5°	78.0	76.2	121.9	285.0	809.0	1539.9	1591.9	1470.6	940.8	358.3	118.6
80°	42.0	42.2	63.3	118.0	346.1	791.4	835.3	712.7	334.3	111.8	27.3
82.5°	18.2	19.0	35.6	62.5	159.0	291.9	313.8	261.2	127.7	75.1	10.1
85°	3.9	4.3	17.2	33.9	64.8	82.0	85.9	84.7	81.4	58.4	3.9
87.5°	0.0	0.0	7.7	12.2	16.4	18.6	16.4	21.3	44.9	39.3	2.1
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°	442.4	442.4	442.4	442.4	442.4	442.4	442.4	442.4	442.4	442.4	442.4
2.5°	442.8	439.1	432.6	425.6	420.6	415.5	411.3	409.5	407.4	405.9	407.8
5°	442.0	434.7	422.3	410.3	401.6	394.5	388.8	386.5	384.2	382.5	382.3
7.5°	449.2	439.1	420.0	402.4	389.0	379.4	371.6	368.3	365.6	364.3	363.3
10°	463.1	450.0	424.6	401.6	384.2	368.1	351.1	338.0	329.5	325.6	324.2
12.5°	481.1	464.7	433.3	405.9	380.7	349.6	313.6	282.6	262.5	255.9	251.9
15°	502.2	481.9	444.6	411.5	367.8	311.1	250.1	209.5	190.9	187.1	183.0
17.5°	522.5	500.1	458.3	412.6	339.7	248.6	183.2	155.7	148.4	150.9	151.5
20°	540.3	518.1	471.8	403.4	288.6	186.5	141.8	135.0	137.7	142.4	143.2
22.5°	558.3	535.5	484.2	379.4	223.1	141.6	127.7	129.4	132.1	136.8	137.7
25°	580.2	556.6	495.8	335.3	167.5	120.5	121.3	123.8	126.5	130.8	131.2
27.5°	605.5	583.3	503.4	278.0	124.2	110.7	113.4	117.2	119.9	124.0	124.8
30°	639.0	618.5	505.9	218.6	104.1	102.1	103.3	107.8	111.8	115.5	116.1
32.5°	670.5	653.3	497.6	165.0	96.5	94.0	94.0	96.7	101.2	104.7	105.6
35°	699.5	688.3	471.1	120.7	90.7	86.5	84.5	84.5	87.4	90.3	91.1
37.5°	737.8	737.3	428.3	96.3	85.1	80.3	76.0	72.7	71.6	72.2	72.7
40°	803.4	804.0	372.4	86.3	80.3	73.9	67.3	61.3	55.7	53.8	53.6
42.5°	905.8	896.5	313.8	81.6	76.2	67.3	57.3	49.3	40.6	37.9	37.7
45°	1068.6	1013.3	251.7	77.2	71.8	59.8	47.4	36.4	29.4	27.3	27.3
47.5°	1305.6	1166.7	195.0	72.5	66.0	51.3	35.8	26.3	21.5	20.5	20.7
50°	1550.7	1317.0	149.5	66.4	59.0	42.4	26.5	19.0	16.4	16.4	16.6
52.5°	1768.0	1427.1	116.5	60.0	50.3	33.3	20.1	14.9	13.7	13.5	13.7
55°	1971.5	1498.1	89.2	52.6	40.0	24.8	15.3	12.2	11.4	11.0	10.8
57.5°	2167.7	1533.3	66.9	42.4	29.0	18.0	12.2	10.4	9.5	8.9	8.7
60°	2298.4	1504.7	46.0	31.3	20.1	13.0	10.1	8.9	7.9	7.2	7.0
62.5°	2372.1	1426.7	29.6	22.6	14.3	9.7	8.1	7.5	6.0	5.4	5.4
65°	2342.2	1297.9	20.7	16.1	10.4	7.2	6.0	6.0	4.3	3.5	3.3
67.5°	2075.6	1096.5	15.7	12.0	7.5	5.4	4.6	5.2	2.7	1.7	1.7
69°	1785.8	908.7	13.5	9.9	6.2	4.3	3.9	4.8	1.9	1.2	1.0
70°	1552.1	783.9	12.2	8.7	5.2	3.7	3.5	4.6	1.9	1.0	0.8
72.5°	928.6	437.2	9.3	6.2	3.3	2.9	2.9	5.2	1.9	1.0	0.8
75°	375.3	154.0	6.8	4.3	2.5	2.5	3.5	6.6	1.7	0.8	0.6
77.5°	85.1	33.7	3.9	2.7	1.7	2.5	4.1	5.2	1.0	0.4	0.0
80°	20.7	8.3	2.5	1.7	1.0	1.9	3.1	2.9	0.2	0.0	0.0
82.5°	6.8	2.9	1.0	0.8	0.2	0.6	1.4	0.8	0.0	0.0	0.0
85°	2.9	1.7	0.4	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0
87.5°	1.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)