

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: P385732

Luminaire Tested: GAW-SA1B-740-U-T4W-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P385732  
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-SA1B-740-U-T4W-HSS  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 4000K, 800mA 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: 4422 lumens  
Efficiency: N/A  
Efficacy: 100.5 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

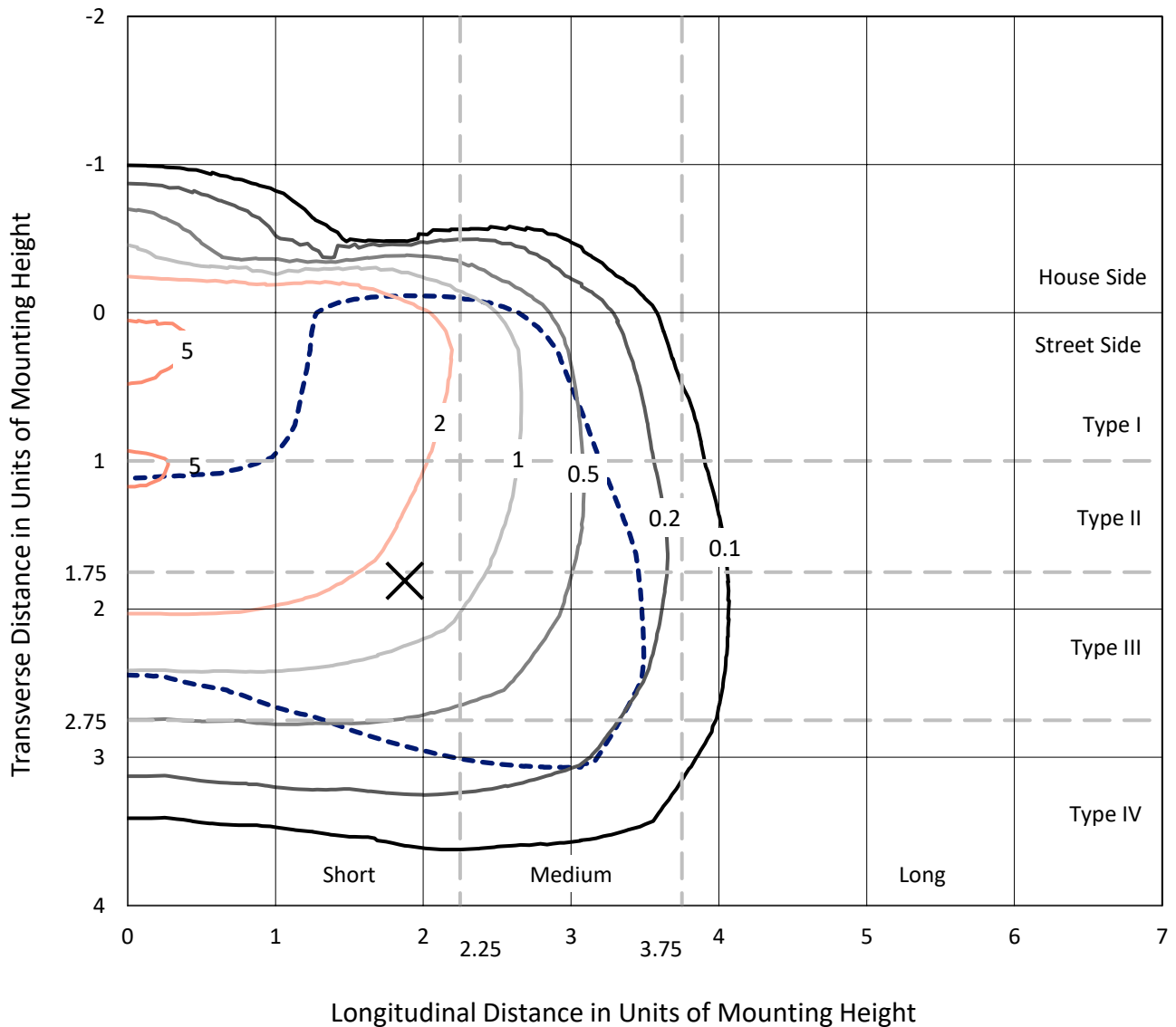
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

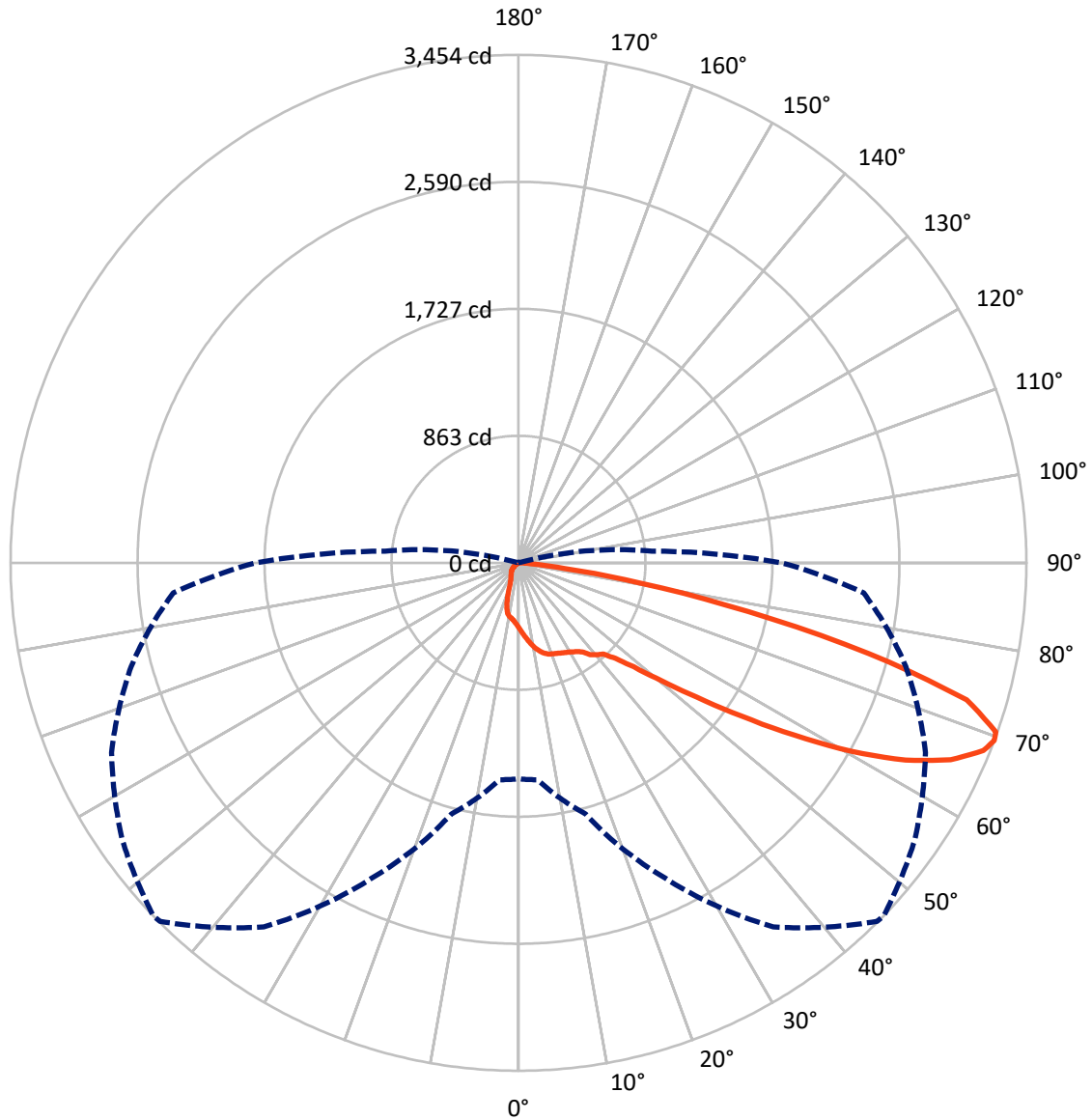
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 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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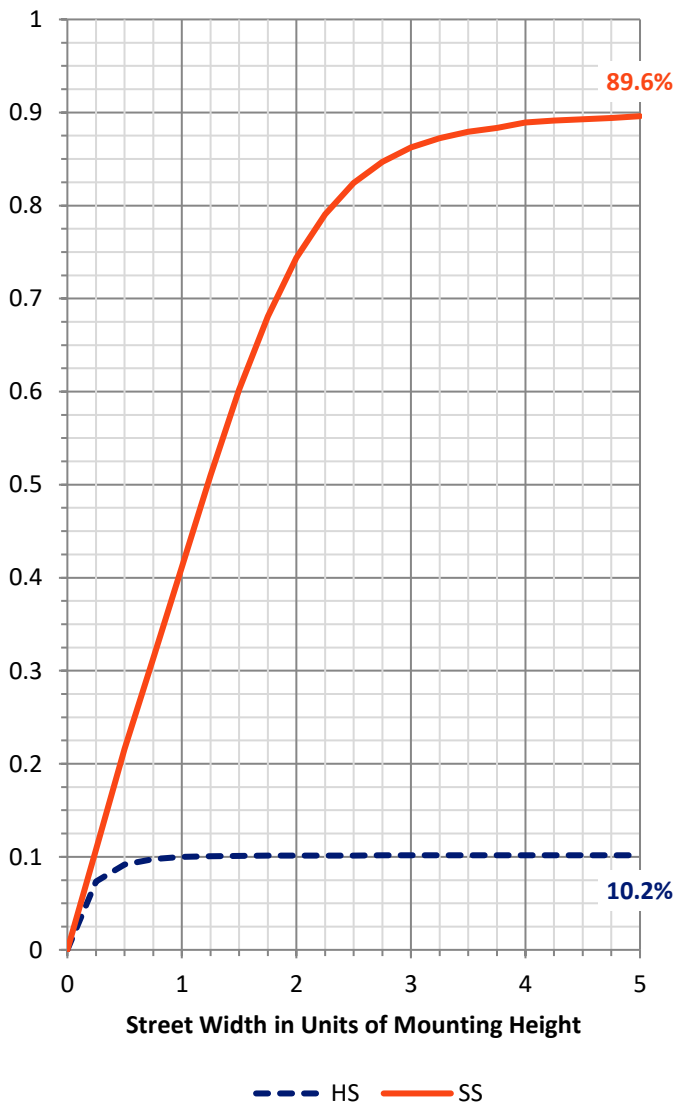
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	453.8	0.0	453.8
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	3968.2	0.0	3968.2
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	4422.0	0.0	4422.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.1	1.0
10°-20°	133.8	3.0
20°-30°	210.4	4.8
30°-40°	301.7	6.8
40°-50°	521.5	11.8
50°-60°	1030.3	23.3
60°-70°	1439.9	32.6
70°-80°	695.6	15.7
80°-90°	44.7	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°	4422.0	100.0
0°-180°	4422.0	100.0



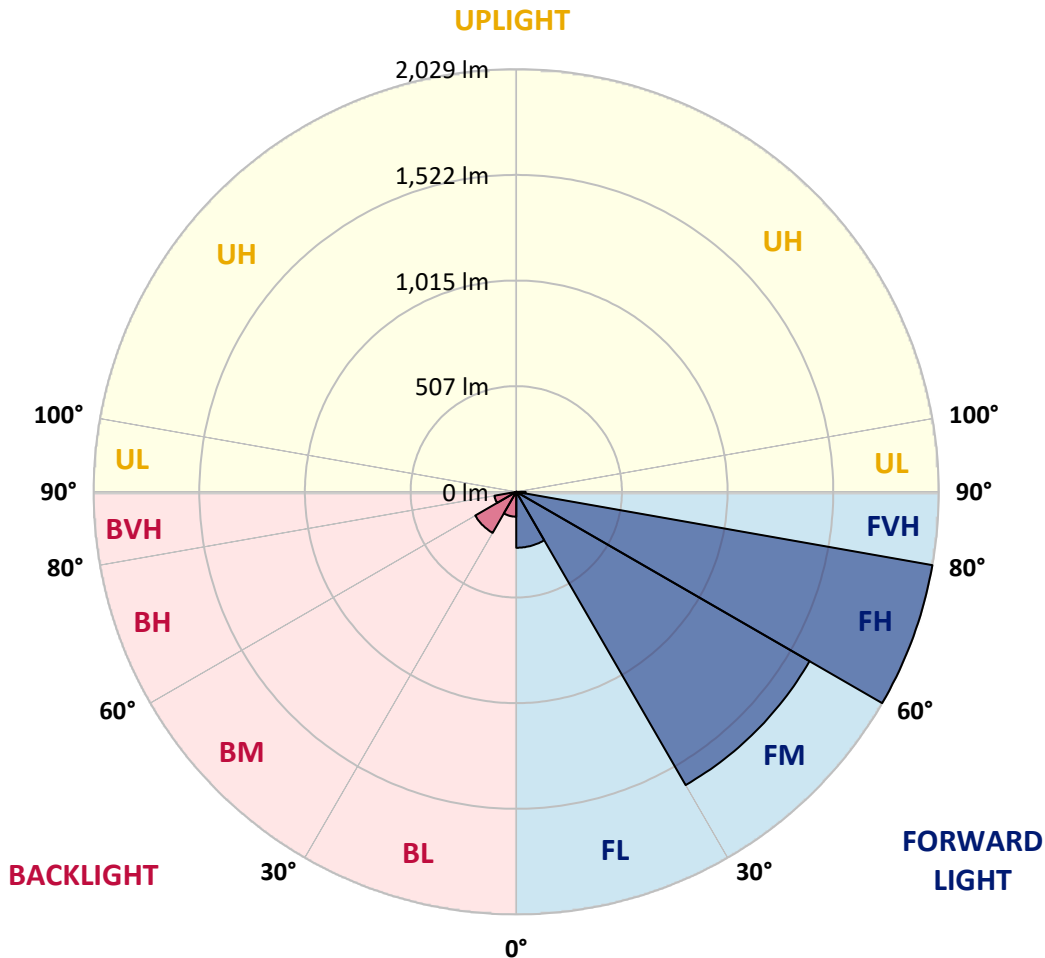
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	268.7	6.1			
FM (30°-60°)	1626.1	36.8			
FH (60°-80°)	2029.1	45.9			G2/5000
FVH (80°-90°)	44.3	1.0			G1/100
BL (0°-30°)	119.6	2.7	B1/500		
BM (30°-60°)	227.4	5.1	B1/1000		
BH (60°-80°)	106.4	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°	443.1	443.1	443.1	443.1	443.1	443.1	443.1	443.1	443.1	443.1	443.1
2.5°	492.2	491.6	488.7	487.4	480.4	476.2	474.6	469.4	461.9	454.5	446.2
5°	548.2	548.0	542.6	537.4	524.1	511.7	509.4	497.4	480.6	464.8	449.1
7.5°	605.4	602.7	597.3	587.4	568.1	548.2	546.3	529.3	505.5	482.7	460.1
10°	653.9	652.3	645.2	630.1	607.5	584.9	582.6	561.7	534.7	506.7	477.9
12.5°	691.7	690.4	681.1	662.2	638.2	614.7	611.6	593.0	564.1	532.8	498.8
15°	714.7	714.1	702.6	682.5	658.9	638.6	635.9	619.5	592.8	560.0	521.6
17.5°	720.1	720.3	708.5	688.1	668.6	654.1	652.1	639.6	617.2	584.7	544.5
20°	708.0	710.5	700.0	682.3	670.3	662.6	661.0	653.5	634.6	604.0	562.7
22.5°	691.0	692.3	685.0	673.2	668.2	669.7	668.9	664.7	648.7	620.5	580.7
25°	680.7	680.7	676.3	666.4	669.7	678.6	678.8	678.0	665.3	640.9	602.7
27.5°	680.3	679.0	674.0	666.6	675.7	689.4	690.2	695.8	687.9	665.5	630.1
30°	696.8	695.4	684.8	675.1	686.7	701.4	703.5	715.7	711.8	692.3	660.6
32.5°	735.6	730.4	707.0	691.0	699.7	717.4	720.1	739.6	745.8	725.2	690.0
35°	788.7	772.3	738.5	721.3	722.1	740.6	743.1	771.7	790.1	755.5	712.8
37.5°	861.9	853.8	798.8	752.8	756.6	784.5	791.8	822.9	817.7	772.1	738.7
40°	1022.4	1009.7	951.2	841.1	789.5	820.2	822.5	839.1	839.5	809.6	792.6
42.5°	1240.9	1235.7	1174.1	1001.4	854.4	844.0	848.2	876.2	907.5	888.8	888.0
45°	1482.8	1480.1	1414.8	1214.1	985.7	922.2	927.4	964.9	1024.8	1029.0	1055.3
47.5°	1677.5	1676.3	1638.7	1451.5	1186.6	1054.7	1056.4	1096.2	1201.5	1253.5	1295.6
50°	1855.0	1861.0	1831.4	1708.4	1460.2	1262.2	1258.3	1284.8	1454.0	1539.2	1591.5
52.5°	2101.7	2110.2	2027.1	1948.1	1747.4	1519.7	1516.6	1544.4	1757.6	1821.4	1830.7
55°	2319.6	2305.1	2239.4	2216.6	2097.6	1837.8	1837.0	1861.4	2051.1	2078.3	2095.5
57.5°	2415.8	2410.2	2442.0	2494.2	2464.3	2213.7	2211.8	2193.2	2313.8	2316.7	2369.6
60°	2476.6	2483.4	2580.7	2741.8	2816.2	2618.2	2606.2	2492.3	2564.7	2558.3	2614.9
62.5°	2431.0	2444.4	2619.4	2887.9	3079.5	2971.3	2954.3	2766.4	2779.1	2756.9	2809.6
65°	2188.8	2209.7	2496.5	2860.3	3210.1	3247.2	3230.0	3008.4	2949.3	2912.8	2883.6
67.5°	1777.2	1789.7	2089.1	2620.5	3151.2	3411.9	3408.3	3220.5	3077.8	2886.5	2659.7
69°	1468.7	1481.0	1769.2	2367.9	3021.7	3447.1	3453.9	3288.5	3053.4	2726.4	2356.5
70°	1244.0	1257.1	1525.5	2151.5	2871.3	3430.7	3443.0	3282.1	2983.3	2541.1	2090.5
72.5°	652.5	663.7	939.2	1482.2	2340.8	3150.2	3187.3	3004.7	2528.8	1845.5	1236.1
75°	205.1	211.5	366.8	774.8	1602.7	2449.4	2457.9	2356.9	1795.7	1015.1	514.8
77.5°	78.2	76.3	122.1	285.5	810.3	1542.3	1594.4	1472.9	942.3	358.9	118.8
80°	42.1	42.3	63.4	118.2	346.7	792.6	836.6	713.8	334.8	112.0	27.4
82.5°	18.2	19.1	35.7	62.6	159.2	292.3	314.3	261.7	127.9	75.3	10.2
85°	3.9	4.4	17.2	34.0	64.9	82.1	86.0	84.8	81.5	58.5	3.9
87.5°	0.0	0.0	7.7	12.2	16.4	18.7	16.4	21.4	45.0	39.4	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°	443.1	443.1	443.1	443.1	443.1	443.1	443.1	443.1	443.1	443.1	443.1
2.5°	443.5	439.8	433.3	426.3	421.3	416.1	412.0	410.1	408.0	406.6	408.4
5°	442.7	435.4	423.0	410.9	402.2	395.2	389.4	387.1	384.8	383.1	382.9
7.5°	449.9	439.8	420.7	403.1	389.6	380.0	372.2	368.8	366.1	364.9	363.9
10°	463.8	450.7	425.2	402.2	384.8	368.6	351.6	338.6	330.1	326.1	324.7
12.5°	481.8	465.5	433.9	406.6	381.3	350.2	314.1	283.0	262.9	256.3	252.3
15°	503.0	482.7	445.3	412.2	368.4	311.6	250.5	209.8	191.2	187.4	183.3
17.5°	523.3	500.9	459.0	413.2	340.2	249.0	183.5	155.9	148.7	151.1	151.8
20°	541.1	519.0	472.5	404.1	289.0	186.8	142.0	135.2	137.9	142.6	143.5
22.5°	559.2	536.4	484.9	380.0	223.5	141.8	127.9	129.6	132.3	137.0	137.9
25°	581.2	557.5	496.6	335.9	167.7	120.7	121.5	124.0	126.7	131.0	131.4
27.5°	606.4	584.3	504.2	278.4	124.4	110.9	113.6	117.3	120.0	124.2	125.0
30°	640.0	619.5	506.7	218.9	104.3	102.2	103.5	108.0	112.0	115.7	116.3
32.5°	671.5	654.3	498.4	165.2	96.6	94.1	94.1	96.8	101.4	104.9	105.7
35°	700.6	689.4	471.9	120.9	90.8	86.7	84.6	84.6	87.5	90.4	91.2
37.5°	738.9	738.5	429.0	96.4	85.2	80.4	76.1	72.8	71.7	72.4	72.8
40°	804.7	805.3	373.0	86.5	80.4	74.0	67.4	61.4	55.8	53.9	53.7
42.5°	907.3	898.0	314.3	81.7	76.3	67.4	57.4	49.3	40.6	37.9	37.7
45°	1070.2	1014.9	252.1	77.3	71.9	59.9	47.5	36.5	29.4	27.4	27.4
47.5°	1307.6	1168.5	195.3	72.6	66.1	51.4	35.9	26.3	21.6	20.5	20.7
50°	1553.1	1319.0	149.7	66.6	59.1	42.5	26.5	19.1	16.4	16.4	16.6
52.5°	1770.8	1429.3	116.7	60.1	50.4	33.4	20.1	14.9	13.7	13.5	13.7
55°	1974.6	1500.5	89.4	52.7	40.0	24.9	15.3	12.2	11.4	11.0	10.8
57.5°	2171.2	1535.7	67.0	42.5	29.0	18.0	12.2	10.4	9.5	8.9	8.7
60°	2302.0	1507.1	46.0	31.3	20.1	13.1	10.2	8.9	7.9	7.3	7.0
62.5°	2375.8	1428.9	29.6	22.6	14.3	9.7	8.1	7.5	6.0	5.4	5.4
65°	2346.0	1300.0	20.7	16.2	10.4	7.3	6.0	6.0	4.4	3.5	3.3
67.5°	2078.9	1098.2	15.8	12.0	7.5	5.4	4.6	5.2	2.7	1.7	1.7
69°	1788.7	910.2	13.5	10.0	6.2	4.4	3.9	4.8	1.9	1.2	1.0
70°	1554.6	785.2	12.2	8.7	5.2	3.7	3.5	4.6	1.9	1.0	0.8
72.5°	930.1	437.9	9.3	6.2	3.3	2.9	2.9	5.2	1.9	1.0	0.8
75°	375.9	154.3	6.8	4.4	2.5	2.5	3.5	6.6	1.7	0.8	0.6
77.5°	85.2	33.8	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	1.5	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)