

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: P386124

Luminaire Tested: GAW-SA1D-727-U-T4W-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386124  
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-727-U-T4W-HSS  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 2700K, 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: 5022 lumens  
Efficiency: N/A  
Efficacy: 75.0 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

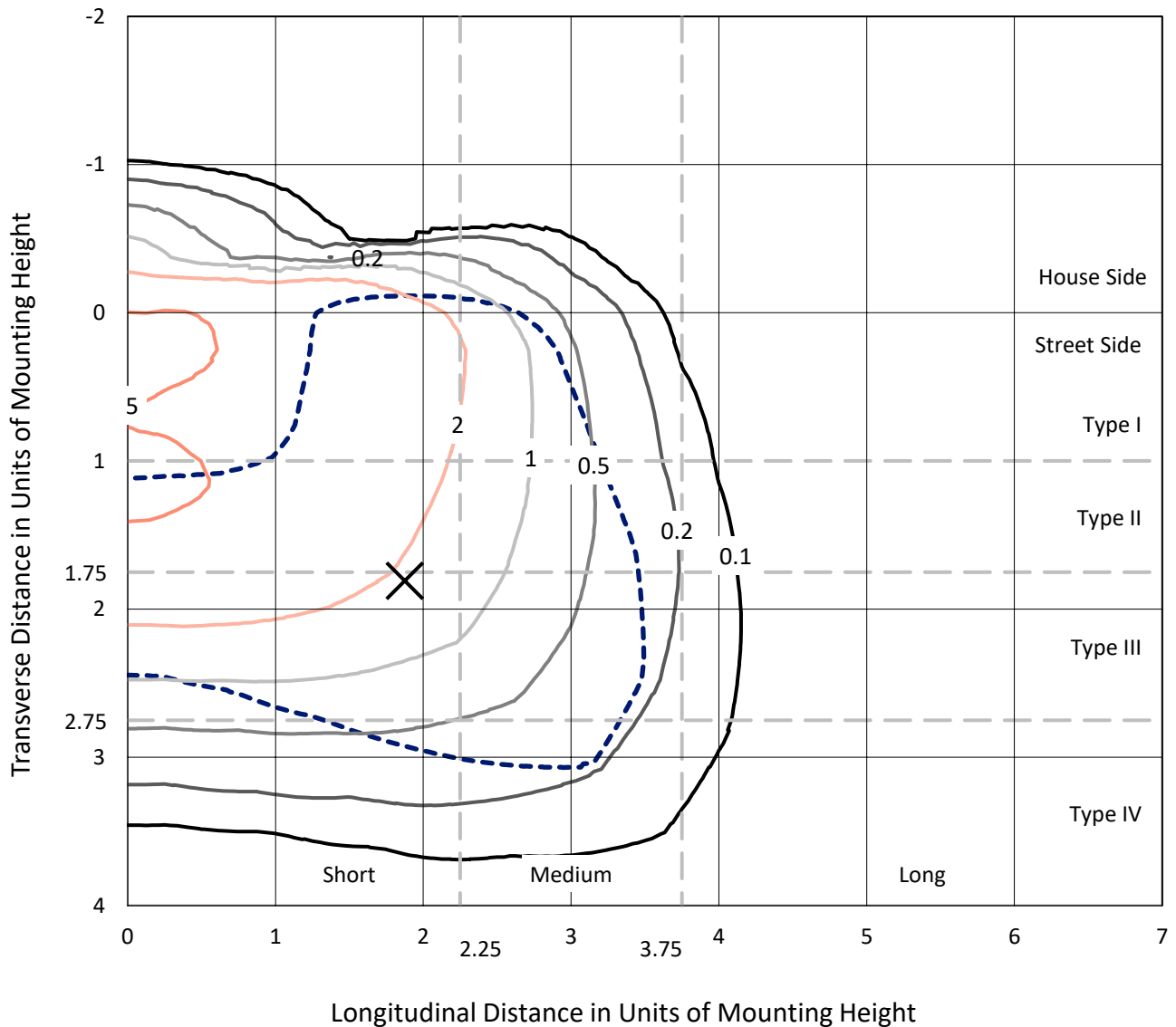
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

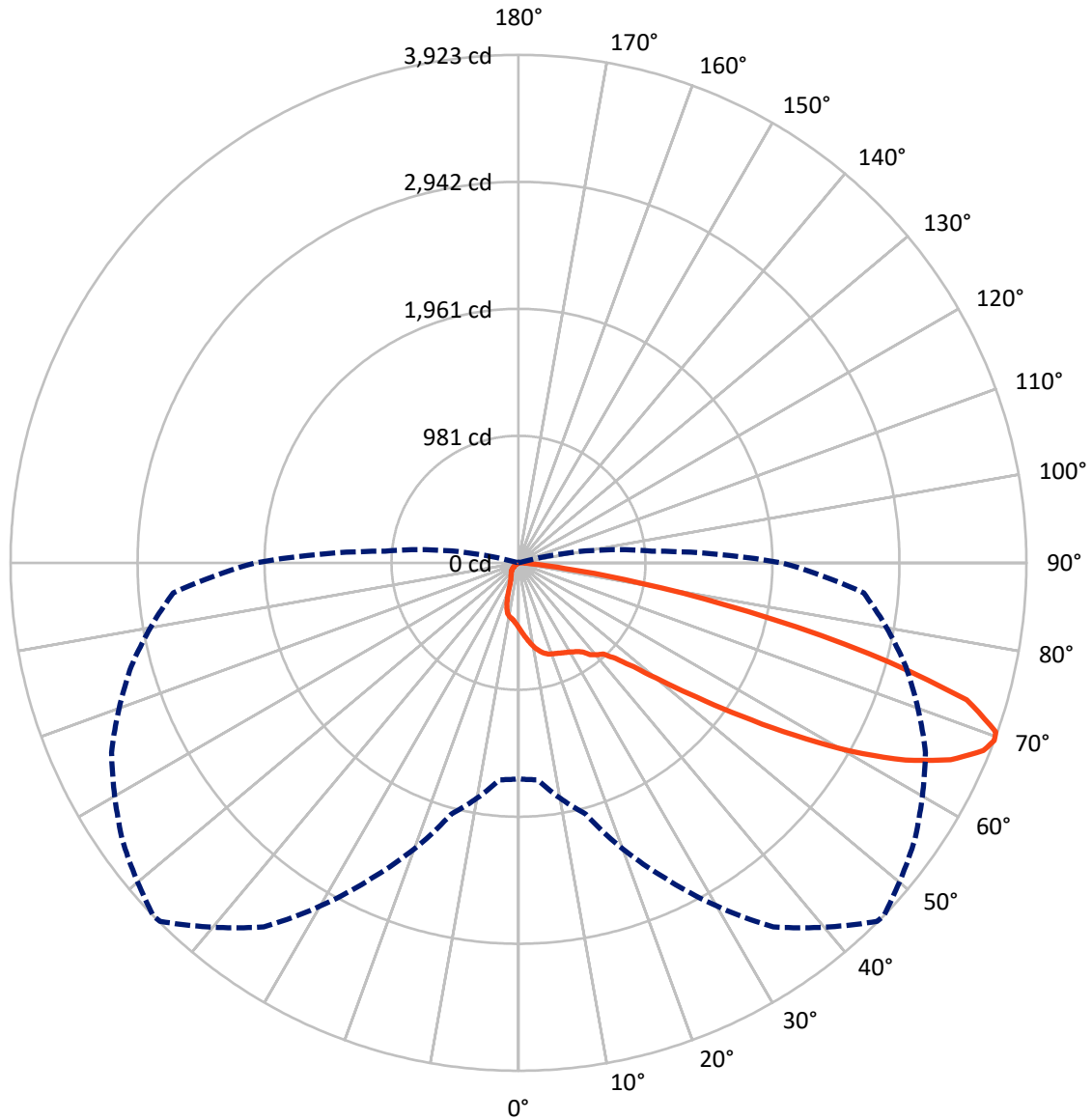
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.3 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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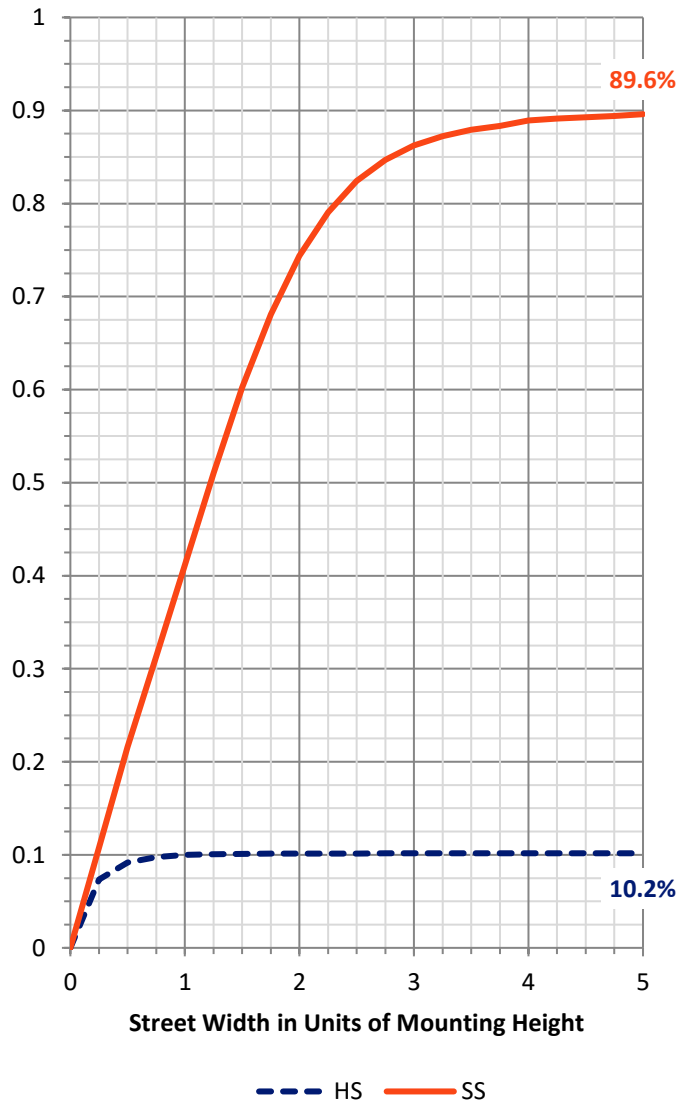
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	515.4	0.0	515.4
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	4506.6	0.0	4506.6
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	5022.0	0.0	5022.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.1	1.0
10°-20°	151.9	3.0
20°-30°	239.0	4.8
30°-40°	342.7	6.8
40°-50°	592.3	11.8
50°-60°	1170.1	23.3
60°-70°	1635.3	32.6
70°-80°	790.0	15.7
80°-90°	50.8	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°	5022.0	100.0
0°-180°	5022.0	100.0

**Coefficient of Utilization**

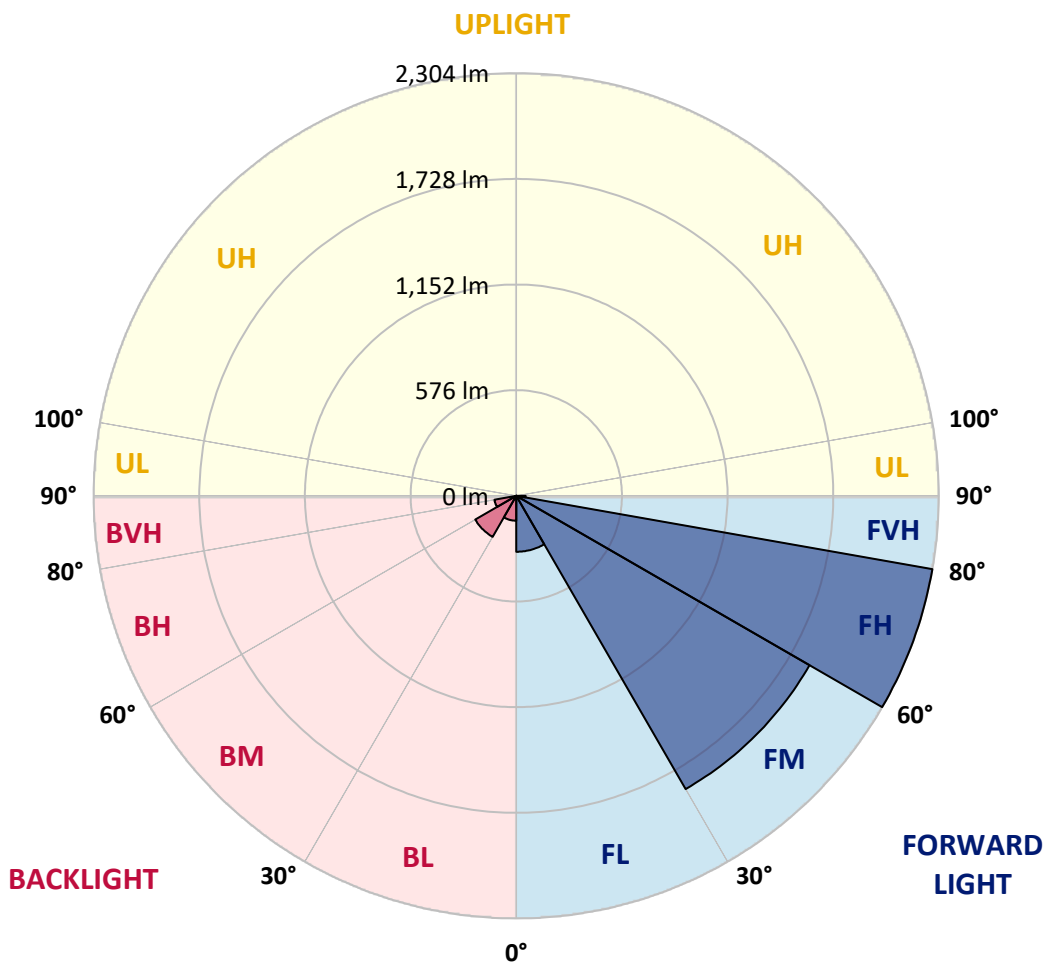


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	305.1	6.1			
FM (30°-60°)	1846.7	36.8			
FH (60°-80°)	2304.4	45.9			G2/5000
FVH (80°-90°)	50.4	1.0			G1/100
BL (0°-30°)	135.8	2.7	B1/500		
BM (30°-60°)	258.3	5.1	B1/1000		
BH (60°-80°)	120.9	2.4	B1/500		G1/500
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°	503.2	503.2	503.2	503.2	503.2	503.2	503.2	503.2	503.2	503.2	503.2
2.5°	559.0	558.3	555.0	553.6	545.6	540.9	539.0	533.1	524.6	516.1	506.7
5°	622.6	622.3	616.2	610.3	595.3	581.1	578.5	564.9	545.8	527.9	510.0
7.5°	687.6	684.5	678.4	667.1	645.2	622.6	620.4	601.1	574.1	548.2	522.5
10°	742.7	740.8	732.8	715.6	689.9	664.2	661.7	637.9	607.3	575.5	542.7
12.5°	785.5	784.1	773.5	752.1	724.8	698.1	694.6	673.4	640.7	605.1	566.5
15°	811.6	810.9	798.0	775.1	748.3	725.2	722.2	703.6	673.2	636.0	592.4
17.5°	817.8	818.0	804.6	781.5	759.4	742.9	740.5	726.4	701.0	664.0	618.3
20°	804.1	806.9	794.9	774.9	761.3	752.5	750.7	742.2	720.8	685.9	639.0
22.5°	784.8	786.2	778.0	764.6	758.9	760.5	759.6	754.9	736.8	704.7	659.5
25°	773.0	773.0	768.1	756.8	760.5	770.7	770.9	770.0	755.6	727.8	684.5
27.5°	772.6	771.1	765.5	757.0	767.4	782.9	783.9	790.2	781.3	755.8	715.6
30°	791.4	789.7	777.7	766.7	779.9	796.6	798.9	812.8	808.3	786.2	750.2
32.5°	835.4	829.5	802.9	784.8	794.7	814.7	817.8	839.9	847.0	823.7	783.6
35°	895.7	877.1	838.7	819.2	820.1	841.1	843.9	876.4	897.4	858.0	809.5
37.5°	978.8	969.6	907.2	855.0	859.2	891.0	899.2	934.6	928.7	876.9	839.0
40°	1161.1	1146.7	1080.3	955.3	896.6	931.5	934.1	952.9	953.4	919.5	900.2
42.5°	1409.2	1403.4	1333.4	1137.3	970.3	958.6	963.3	995.1	1030.6	1009.4	1008.5
45°	1684.0	1681.0	1606.8	1378.9	1119.4	1047.3	1053.2	1095.8	1163.9	1168.6	1198.5
47.5°	1905.1	1903.7	1861.1	1648.5	1347.6	1197.8	1199.7	1244.9	1364.5	1423.6	1471.4
50°	2106.7	2113.5	2079.8	1940.2	1658.4	1433.5	1429.0	1459.2	1651.3	1748.1	1807.4
52.5°	2386.9	2396.5	2302.1	2212.4	1984.5	1725.9	1722.4	1754.0	1996.0	2068.5	2079.1
55°	2634.4	2617.9	2543.2	2517.3	2382.2	2087.1	2086.2	2114.0	2329.4	2360.3	2379.8
57.5°	2743.6	2737.3	2773.3	2832.6	2798.7	2514.0	2511.9	2490.7	2627.8	2631.1	2691.1
60°	2812.6	2820.4	2930.8	3113.8	3198.3	2973.4	2959.8	2830.5	2912.7	2905.4	2969.7
62.5°	2760.8	2776.1	2974.8	3279.8	3497.3	3374.4	3355.1	3141.8	3156.2	3131.0	3190.8
65°	2485.8	2509.6	2835.2	3248.5	3645.7	3687.8	3668.3	3416.6	3349.5	3308.0	3274.8
67.5°	2018.4	2032.5	2372.5	2976.0	3578.8	3874.8	3870.8	3657.5	3495.5	3278.1	3020.5
69°	1668.0	1681.9	2009.2	2689.2	3431.6	3914.8	3922.6	3734.7	3467.7	3096.3	2676.3
70°	1412.8	1427.6	1732.5	2443.4	3260.9	3896.2	3910.1	3727.4	3388.1	2885.8	2374.2
72.5°	741.0	753.7	1066.6	1683.3	2658.4	3577.6	3619.8	3412.3	2871.9	2095.9	1403.8
75°	232.9	240.2	416.5	879.9	1820.1	2781.8	2791.4	2676.7	2039.3	1152.8	584.7
77.5°	88.8	86.7	138.7	324.2	920.2	1751.6	1810.7	1672.7	1070.2	407.6	134.9
80°	47.8	48.0	72.1	134.2	393.7	900.2	950.1	810.7	380.3	127.2	31.1
82.5°	20.7	21.7	40.5	71.1	180.8	332.0	357.0	297.2	145.3	85.5	11.5
85°	4.5	4.9	19.5	38.6	73.7	93.2	97.7	96.3	92.5	66.4	4.5
87.5°	0.0	0.0	8.7	13.9	18.6	21.2	18.6	24.3	51.1	44.7	2.4
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°	503.2	503.2	503.2	503.2	503.2	503.2	503.2	503.2	503.2	503.2	503.2
2.5°	503.7	499.4	492.1	484.1	478.5	472.6	467.9	465.7	463.4	461.7	463.9
5°	502.7	494.5	480.3	466.7	456.8	448.8	442.2	439.6	437.0	435.1	434.9
7.5°	511.0	499.4	477.8	457.7	442.4	431.6	422.7	418.9	415.8	414.4	413.2
10°	526.7	511.9	482.9	456.8	437.0	418.7	399.3	384.5	374.9	370.4	368.7
12.5°	547.2	528.6	492.8	461.7	433.0	397.7	356.7	321.4	298.6	291.0	286.6
15°	571.2	548.2	505.8	468.1	418.4	353.9	284.4	238.3	217.1	212.9	208.1
17.5°	594.3	568.9	521.3	469.3	386.4	282.8	208.4	177.1	168.8	171.7	172.4
20°	614.6	589.4	536.6	458.9	328.2	212.2	161.3	153.5	156.6	162.0	162.9
22.5°	635.0	609.1	550.7	431.6	253.8	161.1	145.3	147.2	150.2	155.6	156.6
25°	660.0	633.2	563.9	381.5	190.5	137.0	138.0	140.8	143.9	148.8	149.3
27.5°	688.7	663.5	572.6	316.2	141.3	126.0	129.0	133.3	136.3	141.0	142.0
30°	726.9	703.6	575.5	248.6	118.4	116.1	117.5	122.7	127.2	131.4	132.1
32.5°	762.7	743.1	566.1	187.7	109.7	106.9	106.9	110.0	115.1	119.1	120.1
35°	795.6	782.9	535.9	137.3	103.1	98.4	96.1	96.1	99.4	102.7	103.6
37.5°	839.2	838.7	487.2	109.5	96.8	91.4	86.4	82.6	81.5	82.2	82.6
40°	913.8	914.5	423.6	98.2	91.4	84.1	76.5	69.7	63.3	61.2	61.0
42.5°	1030.4	1019.8	357.0	92.8	86.7	76.5	65.2	56.0	46.2	43.1	42.9
45°	1215.5	1152.6	286.3	87.8	81.7	68.0	53.9	41.4	33.4	31.1	31.1
47.5°	1485.1	1327.1	221.8	82.4	75.1	58.4	40.7	29.9	24.5	23.3	23.5
50°	1763.9	1498.0	170.0	75.6	67.1	48.3	30.1	21.7	18.6	18.6	18.8
52.5°	2011.1	1623.3	132.6	68.3	57.2	37.9	22.8	17.0	15.5	15.3	15.5
55°	2242.6	1704.0	101.5	59.8	45.4	28.3	17.4	13.9	13.0	12.5	12.2
57.5°	2465.8	1744.1	76.1	48.3	33.0	20.5	13.9	11.8	10.8	10.1	9.9
60°	2614.4	1711.6	52.3	35.6	22.8	14.8	11.5	10.1	8.9	8.2	8.0
62.5°	2698.2	1622.8	33.7	25.7	16.2	11.1	9.2	8.5	6.8	6.1	6.1
65°	2664.3	1476.4	23.5	18.4	11.8	8.2	6.8	6.8	4.9	4.0	3.8
67.5°	2361.0	1247.3	17.9	13.7	8.5	6.1	5.2	5.9	3.1	1.9	1.9
69°	2031.3	1033.7	15.3	11.3	7.1	4.9	4.5	5.4	2.1	1.4	1.2
70°	1765.5	891.7	13.9	9.9	5.9	4.2	4.0	5.2	2.1	1.2	0.9
72.5°	1056.3	497.3	10.6	7.1	3.8	3.3	3.3	5.9	2.1	1.2	0.9
75°	426.9	175.2	7.8	4.9	2.8	2.8	4.0	7.5	1.9	0.9	0.7
77.5°	96.8	38.4	4.5	3.1	1.9	2.8	4.7	5.9	1.2	0.5	0.0
80°	23.5	9.4	2.8	1.9	1.2	2.1	3.5	3.3	0.2	0.0	0.0
82.5°	7.8	3.3	1.2	0.9	0.2	0.7	1.6	0.9	0.0	0.0	0.0
85°	3.3	1.9	0.5	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0
87.5°	2.1	0.7	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)