

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: P386118

Luminaire Tested: GAW-SA1D-727-U-T3-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386118  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA1D-727-U-T3-HSS  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5049 lumens  
Efficiency: N/A  
Efficacy: 75.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

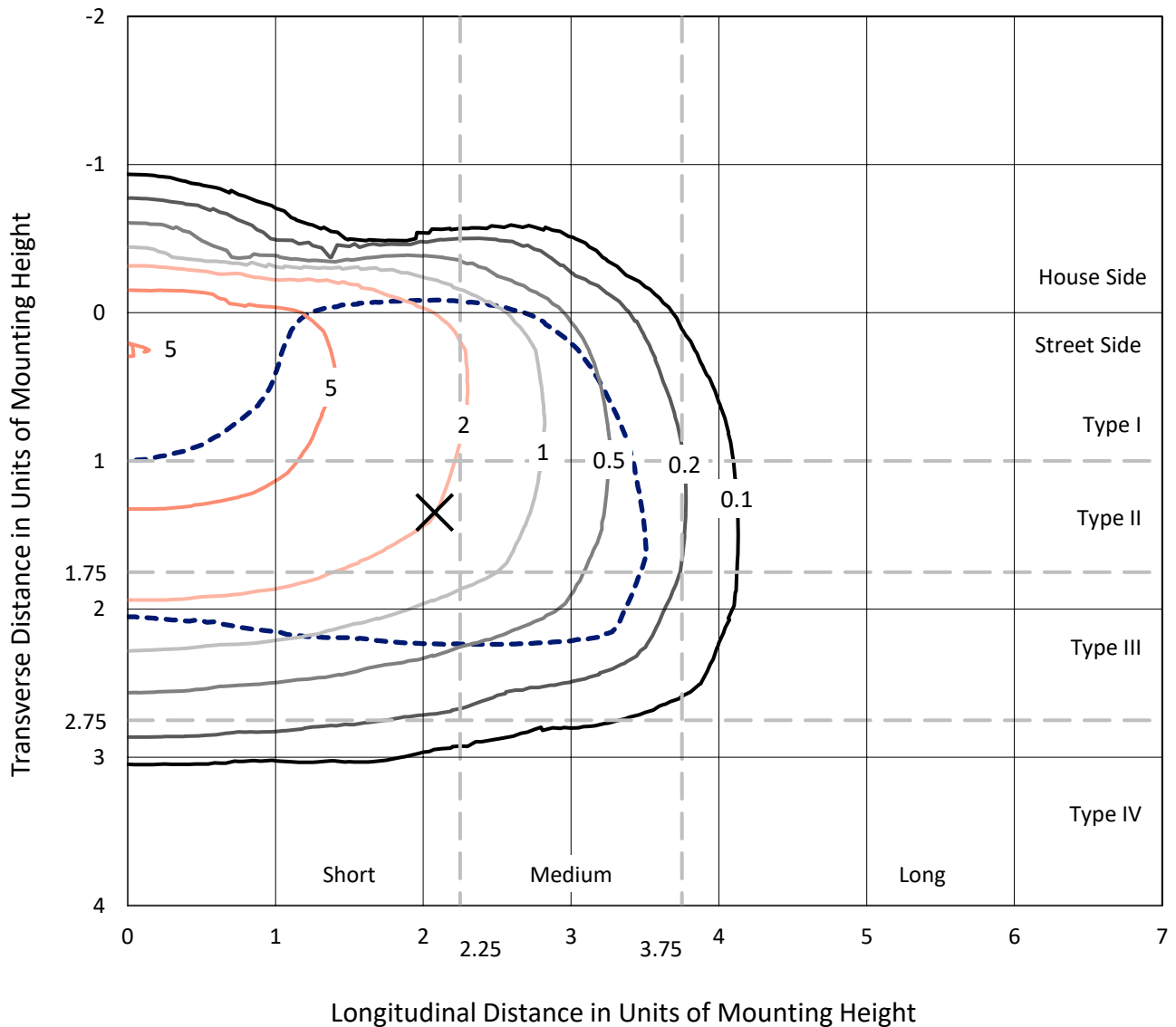
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

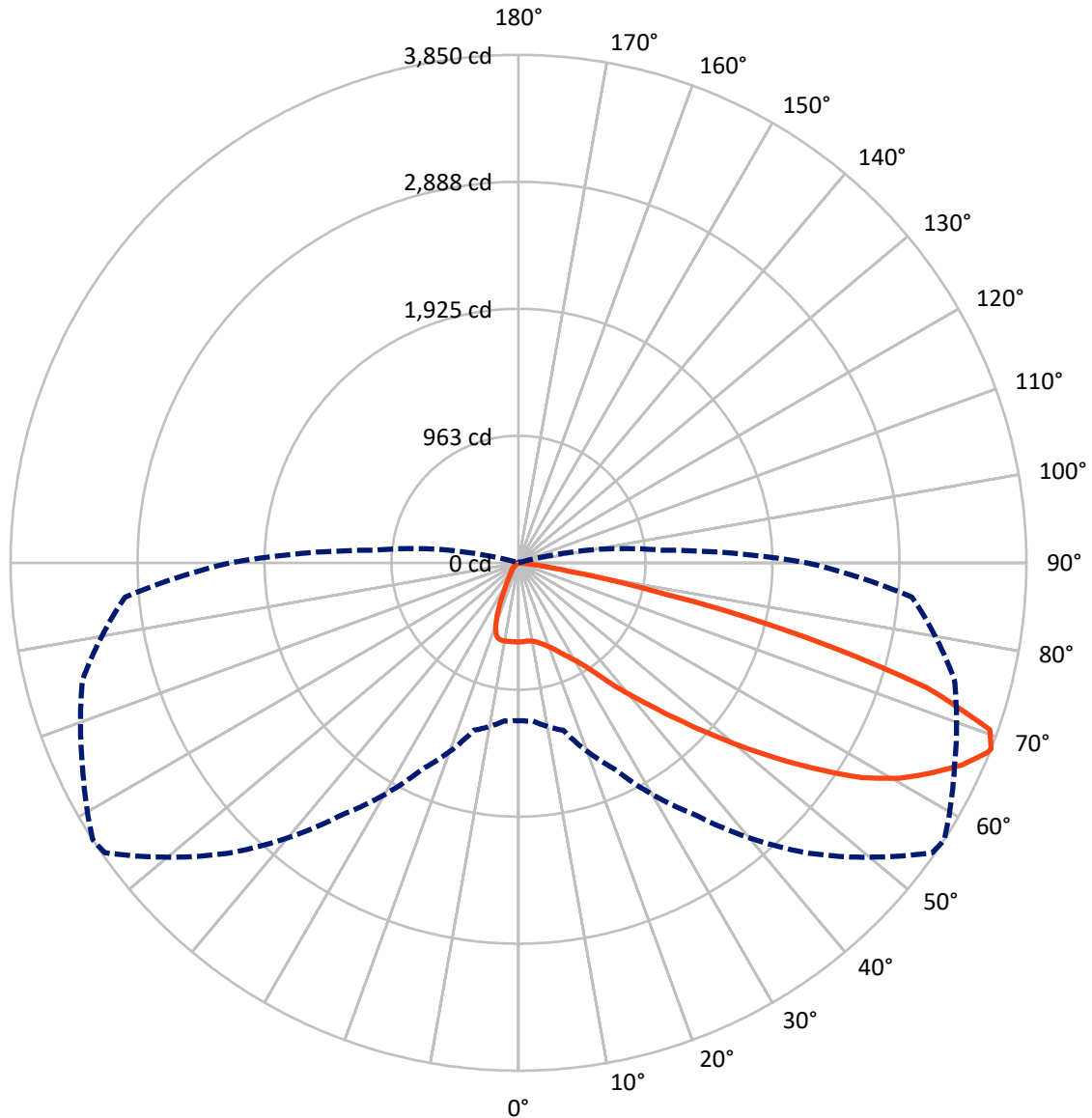
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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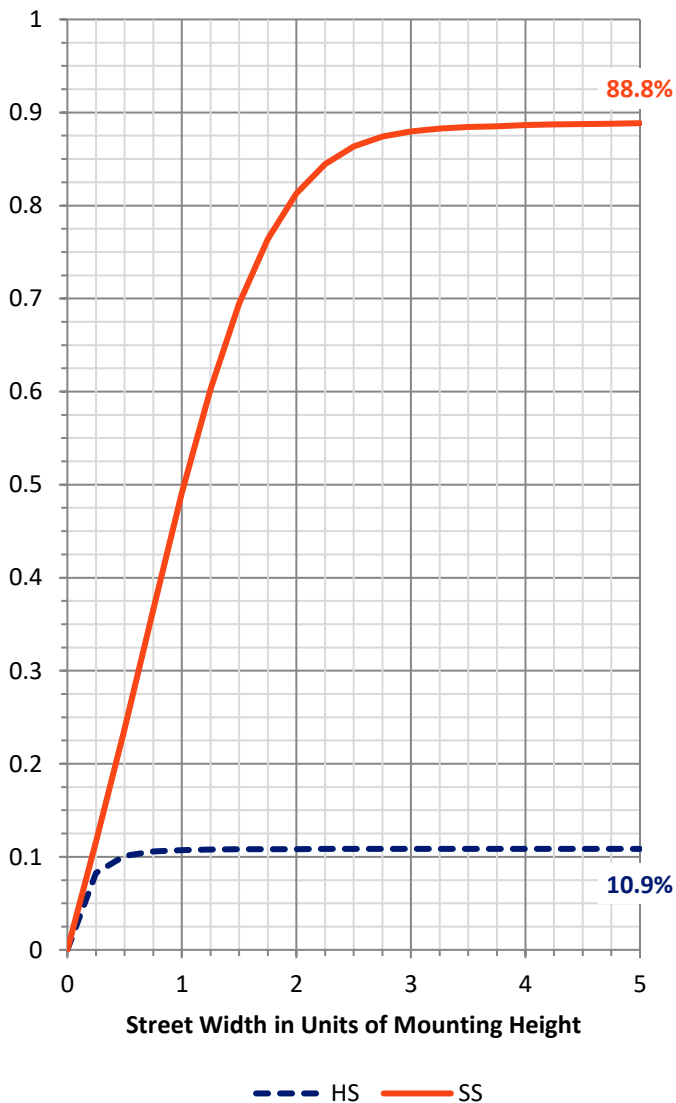
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	553.7	0.0	553.7
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	4495.3	0.0	4495.3
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	5049.0	0.0	5049.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.1	1.1
10°-20°	155.6	3.1
20°-30°	268.4	5.3
30°-40°	463.2	9.2
40°-50°	792.4	15.7
50°-60°	1267.8	25.1
60°-70°	1464.8	29.0
70°-80°	559.7	11.1
80°-90°	21.0	0.4
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°	5049.0	100.0
0°-180°	5049.0	100.0

**Coefficient of Utilization**



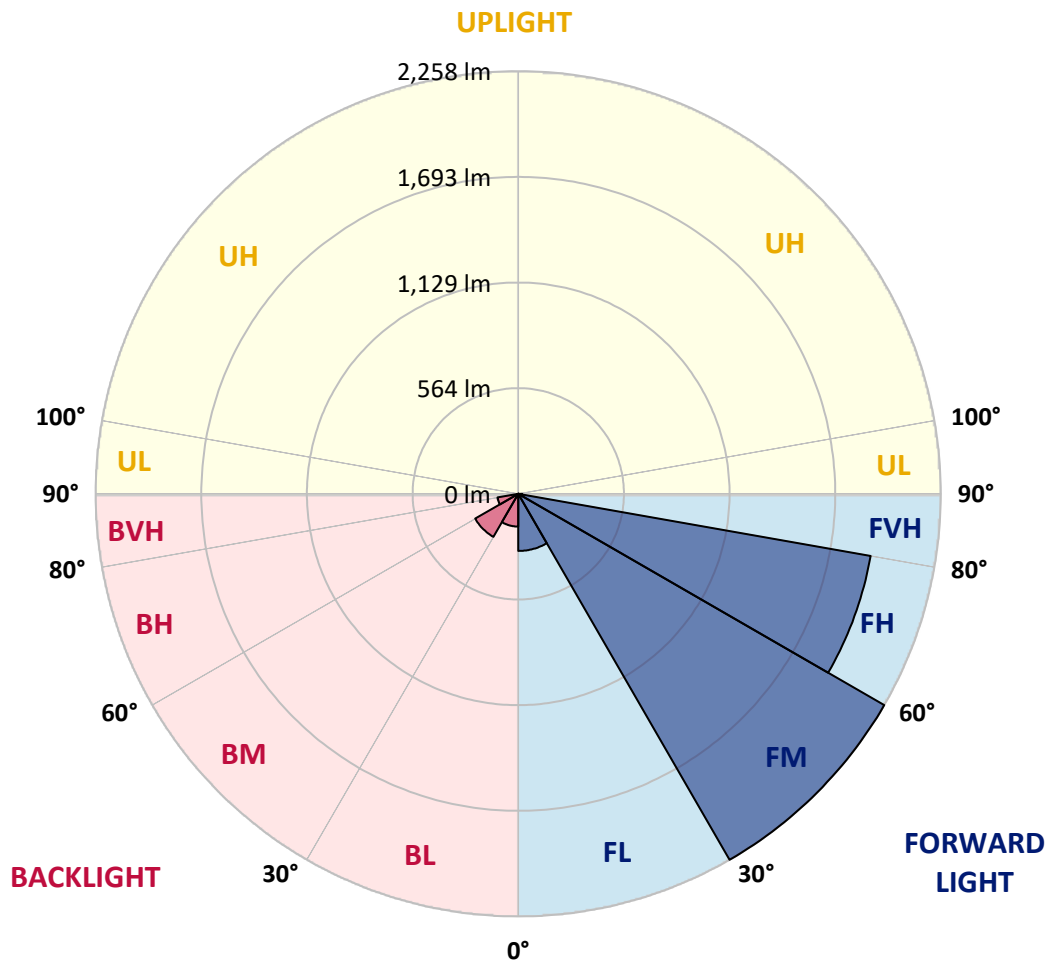
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	305.2	6.0			
FM (30°-60°)	2257.9	44.7			
FH (60°-80°)	1911.7	37.9			G2/5000
FVH (80°-90°)	20.6	0.4			G1/100
BL (0°-30°)	175.0	3.5	B1/500		
BM (30°-60°)	265.5	5.3	B1/1000		
BH (60°-80°)	112.8	2.2	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0
2.5°	585.9	588.5	590.4	591.6	593.0	596.1	597.1	598.5	599.2	599.2	600.9
5°	562.7	565.6	569.6	573.0	579.7	588.3	594.5	596.9	601.1	605.0	607.1
7.5°	541.2	544.6	549.3	557.2	568.7	582.5	595.4	598.8	607.1	615.2	619.3
10°	527.4	530.0	536.2	547.4	562.5	581.8	600.0	604.0	618.3	631.9	639.6
12.5°	522.6	525.0	531.4	544.1	562.7	585.4	610.5	616.4	637.4	657.3	668.0
15°	529.5	530.0	536.9	548.9	567.2	594.2	627.9	635.0	661.5	687.3	700.7
17.5°	556.3	554.1	557.7	562.9	577.5	605.9	646.3	657.0	692.3	722.7	735.3
20°	623.1	623.1	615.0	600.7	600.9	624.1	671.1	683.3	726.5	761.6	773.0
22.5°	737.5	735.3	719.1	684.0	651.8	655.3	701.4	717.2	767.5	805.0	808.9
25°	875.0	872.4	847.3	797.9	742.0	706.0	742.5	760.6	816.5	849.7	841.8
27.5°	1020.6	1018.5	993.6	932.3	852.8	786.6	791.4	808.6	866.4	899.1	874.0
30°	1161.7	1162.4	1137.8	1074.8	984.8	889.5	853.5	863.5	914.9	948.0	912.2
32.5°	1295.9	1296.8	1275.6	1205.2	1121.1	1009.2	939.4	936.8	971.2	1003.9	962.8
35°	1415.5	1417.9	1403.3	1348.6	1259.6	1142.4	1050.9	1044.7	1051.2	1088.2	1040.4
37.5°	1530.8	1532.2	1521.3	1475.2	1400.7	1288.7	1191.8	1183.0	1169.1	1197.5	1142.8
40°	1657.1	1653.5	1640.9	1599.1	1535.1	1450.3	1343.2	1327.9	1303.8	1329.1	1277.5
42.5°	1774.6	1770.5	1772.6	1725.4	1671.4	1616.5	1519.6	1493.3	1479.2	1508.4	1442.7
45°	1921.4	1919.2	1926.4	1885.3	1841.6	1801.8	1721.8	1693.1	1686.9	1721.1	1642.5
47.5°	2066.3	2071.5	2093.8	2076.3	2058.7	2023.6	1935.9	1923.1	1926.9	1968.2	1853.3
50°	2187.1	2193.3	2254.2	2274.2	2299.8	2279.3	2191.4	2183.5	2198.6	2235.8	2080.1
52.5°	2274.5	2287.1	2362.8	2455.2	2548.3	2562.2	2474.5	2467.4	2487.7	2493.4	2255.4
55°	2335.1	2346.3	2432.0	2601.1	2790.6	2850.3	2795.9	2768.2	2764.4	2707.8	2439.7
57.5°	2345.9	2344.7	2467.9	2695.4	2980.7	3134.7	3100.3	3073.1	2994.8	2905.9	2651.0
60°	2285.2	2292.1	2435.2	2728.1	3100.0	3349.8	3352.4	3317.1	3195.1	3098.6	2855.8
62.5°	2098.5	2126.7	2271.1	2642.4	3098.6	3436.4	3537.2	3510.2	3364.3	3256.4	3063.5
65°	1795.8	1805.8	1943.6	2348.7	2889.2	3400.1	3703.6	3693.6	3516.9	3409.7	3170.2
67.5°	1311.4	1289.7	1434.4	1849.5	2446.1	3188.6	3822.9	3835.6	3634.6	3441.2	3056.6
68°	1196.8	1203.3	1315.9	1726.1	2330.1	3113.9	3830.8	3850.2	3646.3	3420.7	2994.5
70°	713.4	725.8	826.3	1188.4	1772.6	2691.1	3745.8	3790.0	3576.6	3208.9	2590.1
72.5°	182.2	197.0	292.0	531.9	1012.5	1896.1	3162.1	3236.8	3105.3	2603.2	1748.5
75°	75.0	78.8	104.3	175.2	377.2	854.2	2084.2	2244.2	2152.7	1558.5	790.2
77.5°	51.8	54.4	67.1	97.2	163.3	289.6	1021.8	1137.4	1024.7	531.9	172.4
80°	37.2	39.4	48.0	64.7	93.8	103.4	333.0	385.1	305.8	116.7	42.7
82.5°	22.2	23.9	35.8	46.1	57.1	49.4	82.8	94.1	88.6	58.0	19.1
85°	11.0	12.9	24.1	32.9	30.8	20.8	25.3	28.2	34.9	35.3	10.3
87.5°	0.7	1.4	14.1	19.8	8.6	4.8	7.4	9.1	12.4	17.4	4.3
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°	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0
2.5°	601.6	601.9	600.2	599.5	600.0	597.1	595.9	596.4	596.4	597.1	595.9
5°	607.6	607.6	604.7	600.9	598.8	593.3	589.7	588.7	588.0	587.5	586.6
7.5°	620.5	619.1	614.0	605.7	598.5	586.6	577.5	572.7	570.4	569.4	568.7
10°	641.3	638.6	630.3	614.8	598.3	577.0	557.2	543.1	531.4	526.7	523.8
12.5°	669.2	665.4	651.3	625.5	596.6	557.5	514.5	473.2	434.7	419.0	411.1
15°	701.4	695.9	673.7	634.6	586.8	513.3	419.9	347.6	294.4	274.3	265.7
17.5°	734.1	727.0	693.3	640.3	557.5	421.9	294.6	222.5	186.9	177.4	174.0
20°	767.1	756.6	710.3	636.0	491.1	304.2	194.3	162.6	152.3	149.5	148.5
22.5°	798.3	782.1	725.5	619.3	388.9	204.1	153.7	143.7	140.4	138.7	138.2
25°	825.6	802.9	738.9	567.7	275.3	154.2	138.5	135.1	130.8	127.7	128.0
27.5°	851.1	823.7	747.0	482.7	183.6	131.8	128.2	123.7	115.8	111.3	111.3
30°	881.9	851.3	753.0	371.5	135.1	116.5	113.6	106.7	96.0	90.0	90.0
32.5°	928.2	893.4	749.2	260.7	112.0	102.4	95.7	86.2	74.5	68.8	68.5
35°	999.1	958.3	722.0	170.9	98.8	89.1	78.3	66.6	56.3	51.6	51.3
37.5°	1094.6	1045.2	660.8	122.2	88.6	76.6	63.7	50.9	43.2	40.1	39.9
40°	1218.5	1146.2	573.5	99.1	79.0	64.7	49.2	39.4	34.1	31.8	32.0
42.5°	1367.3	1254.3	468.6	85.5	69.7	53.2	38.4	31.0	27.7	26.0	25.5
45°	1532.5	1361.1	358.8	76.2	60.4	43.0	30.1	24.6	22.0	21.0	21.0
47.5°	1714.2	1464.9	262.6	68.0	50.4	33.2	24.1	20.1	17.9	17.2	17.0
50°	1879.1	1537.0	189.3	59.4	41.3	26.3	19.6	16.7	15.3	14.3	14.3
52.5°	2016.6	1559.7	139.4	50.1	33.4	21.0	16.2	14.3	12.9	12.2	12.2
55°	2137.7	1550.4	103.6	41.3	27.0	17.2	13.8	12.2	11.0	10.3	10.3
57.5°	2253.7	1520.3	77.4	33.7	21.7	13.8	11.7	10.3	9.1	8.6	8.6
60°	2348.5	1470.2	57.5	27.2	17.4	11.2	9.8	8.4	7.4	6.7	6.7
62.5°	2425.4	1414.8	42.3	22.4	13.8	8.8	7.6	6.9	5.5	4.8	4.8
65°	2425.8	1322.9	31.8	18.6	10.7	6.9	5.7	5.5	3.6	2.9	2.6
67.5°	2250.4	1140.5	24.4	16.0	8.4	5.3	4.3	4.5	1.9	1.2	1.0
68°	2186.6	1094.1	22.9	15.8	7.9	5.0	4.1	4.5	1.7	1.0	0.7
70°	1843.6	870.4	18.4	15.3	6.9	3.8	3.3	4.5	1.4	0.7	0.5
72.5°	1179.1	505.2	13.6	12.2	5.3	2.9	2.1	4.1	1.4	0.5	0.2
75°	501.8	156.6	9.3	8.6	3.1	2.1	1.4	2.6	1.0	0.2	0.0
77.5°	105.8	35.3	5.5	5.3	2.1	1.4	1.0	0.7	0.2	0.0	0.0
80°	27.2	10.3	2.9	2.6	1.2	0.7	0.5	0.0	0.0	0.0	0.0
82.5°	8.6	4.1	1.7	1.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.3	2.4	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	0.7	0.2	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)