

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-735-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-735-U-T4W-HSS  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 3500K, 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: 4154 lumens  
Efficiency: N/A  
Efficacy: 94.4 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

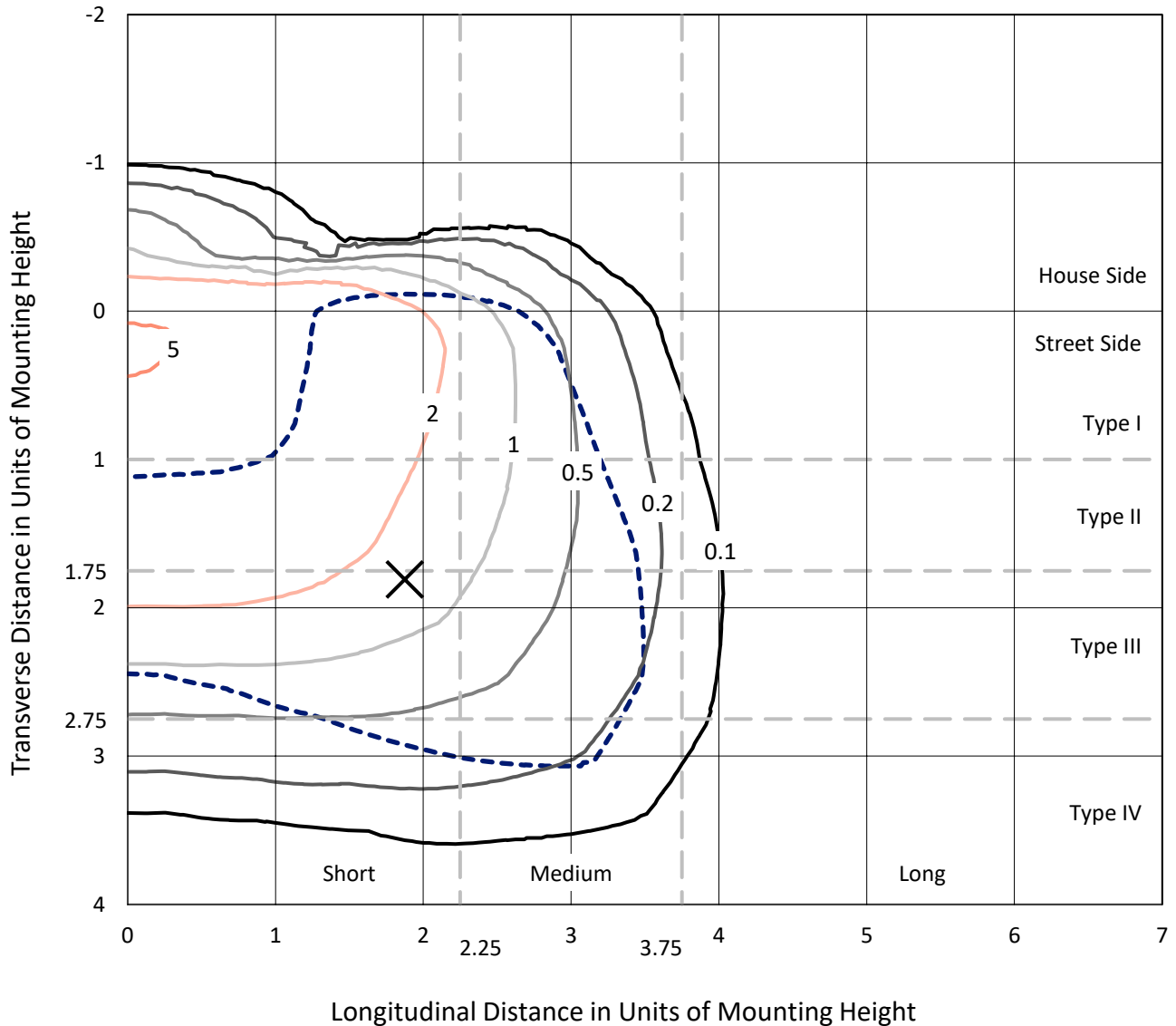
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

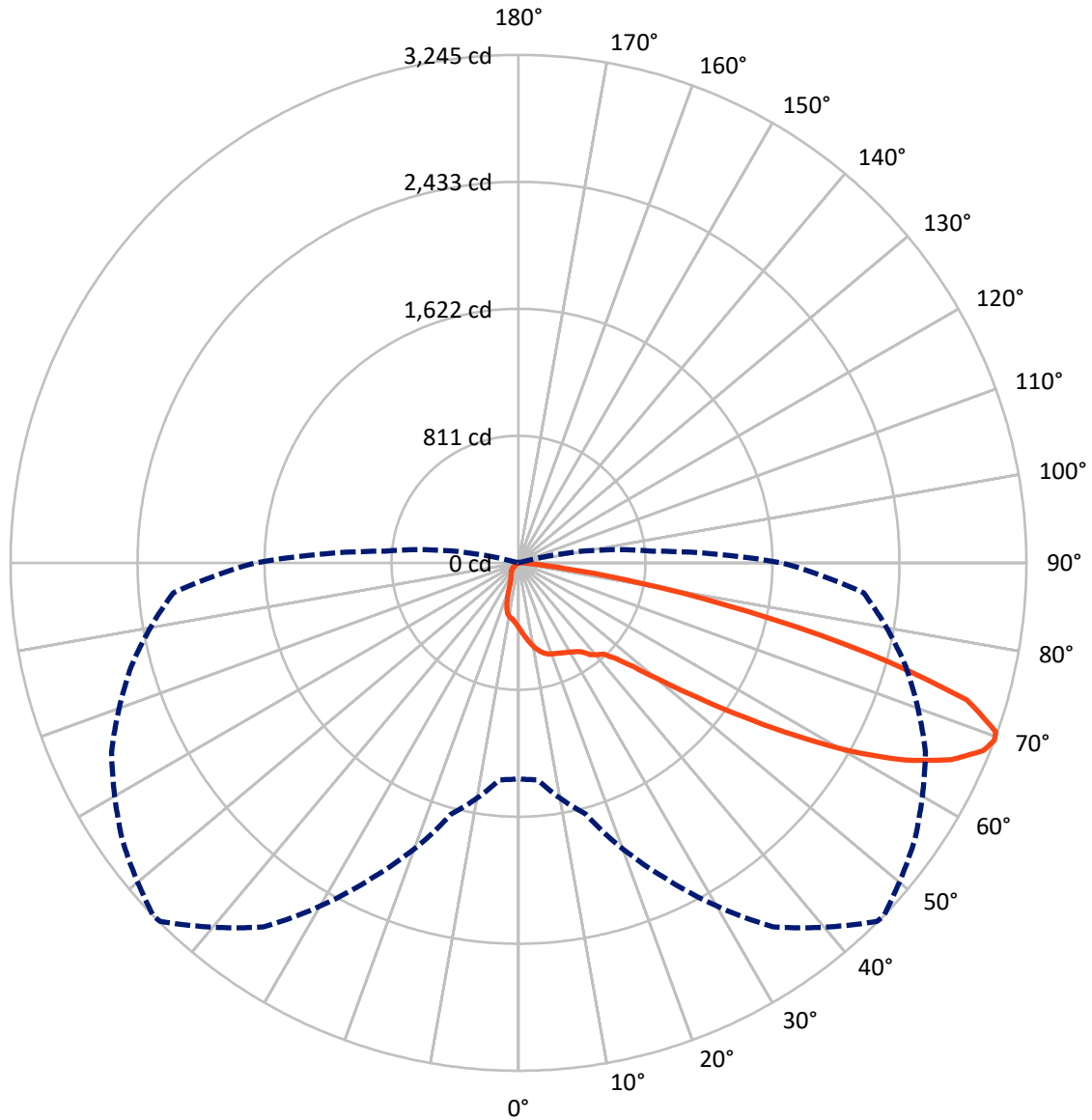
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.1 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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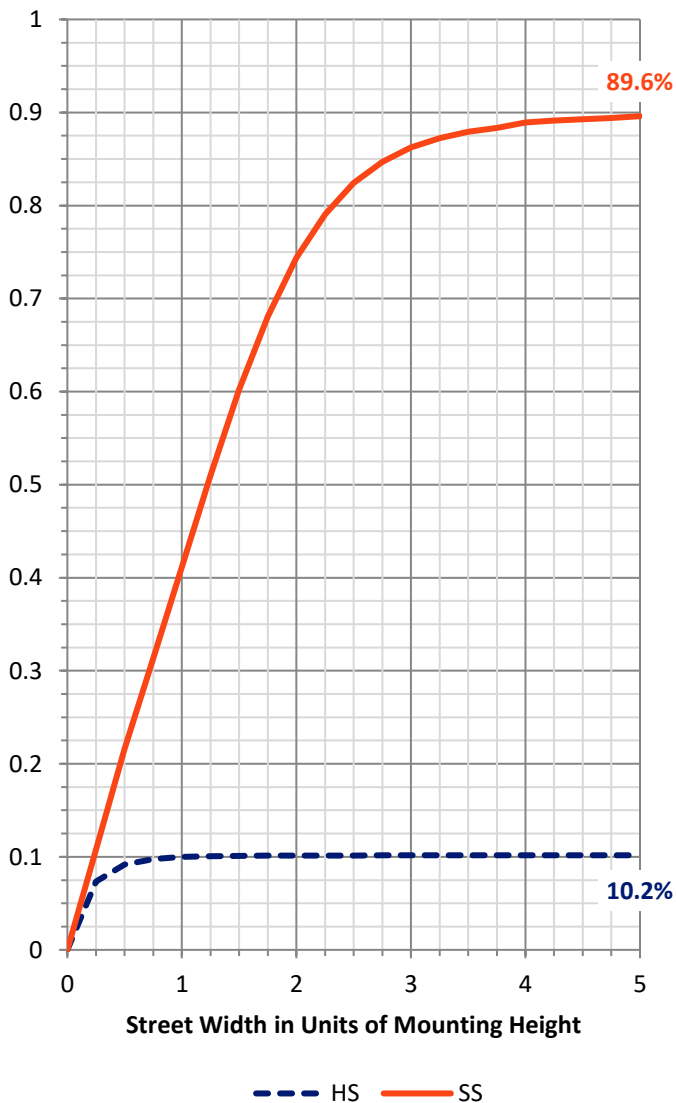
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	426.3	0.0	426.3
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	3727.7	0.0	3727.7
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	4154.0	0.0	4154.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.4	1.0
10°-20°	125.7	3.0
20°-30°	197.7	4.8
30°-40°	283.4	6.8
40°-50°	489.9	11.8
50°-60°	967.8	23.3
60°-70°	1352.6	32.6
70°-80°	653.5	15.7
80°-90°	42.0	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°	4154.0	100.0
0°-180°	4154.0	100.0

**Coefficient of Utilization**



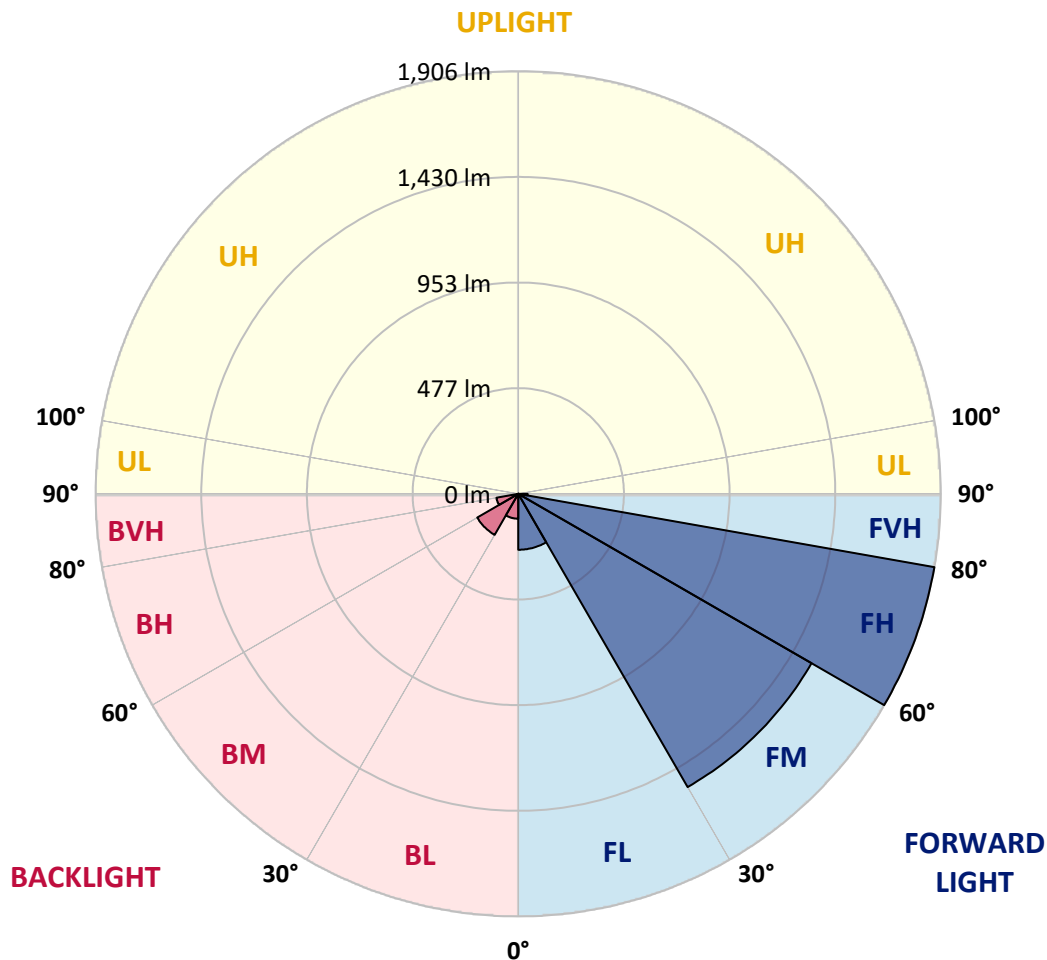
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	252.4	6.1			
FM (30°-60°)	1527.5	36.8			
FH (60°-80°)	1906.1	45.9			G2/5000
FVH (80°-90°)	41.7	1.0			G1/100
BL (0°-30°)	112.4	2.7	B1/500		
BM (30°-60°)	213.6	5.1	B0/220		
BH (60°-80°)	100.0	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°	416.2	416.2	416.2	416.2	416.2	416.2	416.2	416.2	416.2	416.2	416.2
2.5°	462.4	461.8	459.1	457.9	451.3	447.3	445.8	441.0	433.9	427.0	419.2
5°	515.0	514.8	509.7	504.8	492.3	480.7	478.5	467.3	451.5	436.6	421.9
7.5°	568.7	566.2	561.1	551.8	533.7	515.0	513.2	497.2	474.9	453.4	432.2
10°	614.3	612.8	606.1	591.9	570.7	549.5	547.3	527.7	502.3	476.0	448.9
12.5°	649.8	648.6	639.8	622.1	599.5	577.4	574.5	557.1	529.9	500.5	468.6
15°	671.4	670.8	660.0	641.1	619.0	599.9	597.4	582.0	556.9	526.1	490.0
17.5°	676.5	676.6	665.6	646.4	628.1	614.5	612.6	600.8	579.8	549.3	511.5
20°	665.1	667.4	657.6	640.9	629.7	622.4	620.9	613.9	596.1	567.4	528.6
22.5°	649.1	650.3	643.5	632.4	627.7	629.1	628.4	624.4	609.4	582.9	545.5
25°	639.4	639.4	635.3	626.0	629.1	637.5	637.7	636.9	625.0	602.1	566.2
27.5°	639.1	637.8	633.2	626.2	634.7	647.6	648.4	653.6	646.2	625.2	591.9
30°	654.6	653.3	643.3	634.2	645.1	658.9	660.9	672.3	668.7	650.3	620.6
32.5°	691.0	686.1	664.2	649.1	657.3	673.9	676.5	694.8	700.6	681.2	648.2
35°	740.9	725.5	693.7	677.6	678.3	695.7	698.1	724.9	742.2	709.7	669.6
37.5°	809.7	802.1	750.4	707.2	710.7	737.0	743.8	773.0	768.1	725.3	693.9
40°	960.4	948.5	893.6	790.1	741.7	770.5	772.7	788.2	788.6	760.5	744.6
42.5°	1165.7	1160.8	1102.9	940.7	802.6	792.8	796.8	823.1	852.5	834.9	834.2
45°	1392.9	1390.4	1329.1	1140.5	926.0	866.3	871.2	906.4	962.7	966.6	991.3
47.5°	1575.8	1574.7	1539.4	1363.5	1114.7	990.8	992.4	1029.8	1128.7	1177.5	1217.1
50°	1742.6	1748.2	1720.4	1604.9	1371.7	1185.7	1182.0	1206.9	1365.9	1445.9	1495.0
52.5°	1974.3	1982.3	1904.2	1830.0	1641.5	1427.6	1424.7	1450.8	1651.1	1711.0	1719.7
55°	2179.0	2165.4	2103.7	2082.3	1970.5	1726.4	1725.7	1748.6	1926.8	1952.3	1968.5
57.5°	2269.4	2264.1	2294.0	2343.0	2314.9	2079.5	2077.8	2060.3	2173.6	2176.3	2226.0
60°	2326.5	2332.9	2424.3	2575.6	2645.5	2459.5	2448.2	2341.3	2409.3	2403.3	2456.4
62.5°	2283.7	2296.3	2460.6	2712.9	2892.9	2791.2	2775.3	2598.7	2610.7	2589.8	2639.3
65°	2056.1	2075.8	2345.2	2686.9	3015.5	3050.4	3034.2	2826.1	2770.6	2736.3	2708.8
67.5°	1669.5	1681.2	1962.5	2461.7	2960.2	3205.1	3201.7	3025.3	2891.3	2711.6	2498.5
69°	1379.7	1391.2	1662.0	2224.4	2838.6	3238.2	3244.6	3089.2	2868.3	2561.2	2213.7
70°	1168.6	1180.9	1433.0	2021.1	2697.3	3222.8	3234.3	3083.2	2802.5	2387.1	1963.8
72.5°	613.0	623.5	882.3	1392.4	2198.9	2959.3	2994.1	2822.6	2375.5	1733.7	1161.2
75°	192.7	198.7	344.6	727.8	1505.6	2301.0	2308.9	2214.1	1686.9	953.6	483.6
77.5°	73.5	71.7	114.7	268.2	761.2	1448.8	1497.8	1383.6	885.2	337.1	111.6
80°	39.5	39.7	59.6	111.0	325.7	744.6	785.9	670.5	314.5	105.2	25.7
82.5°	17.1	17.9	33.5	58.8	149.6	274.6	295.3	245.8	120.1	70.7	9.6
85°	3.7	4.1	16.2	31.9	61.0	77.1	80.8	79.7	76.6	55.0	3.7
87.5°	0.0	0.0	7.2	11.5	15.4	17.6	15.4	20.1	42.3	37.0	2.0
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°	416.2	416.2	416.2	416.2	416.2	416.2	416.2	416.2	416.2	416.2	416.2
2.5°	416.6	413.1	407.0	400.5	395.8	390.9	387.0	385.2	383.3	382.0	383.6
5°	415.9	409.0	397.4	386.0	377.8	371.2	365.8	363.6	361.5	359.9	359.7
7.5°	422.6	413.1	395.2	378.7	366.0	357.0	349.6	346.4	343.9	342.8	341.8
10°	435.7	423.4	399.4	377.8	361.5	346.3	330.3	318.1	310.1	306.3	305.0
12.5°	452.6	437.3	407.6	382.0	358.2	329.0	295.1	265.8	247.0	240.8	237.0
15°	472.5	453.4	418.3	387.2	346.1	292.7	235.3	197.1	179.6	176.0	172.2
17.5°	491.6	470.5	431.2	388.2	319.6	233.9	172.4	146.5	139.7	141.9	142.6
20°	508.3	487.5	443.9	379.6	271.5	175.5	133.4	127.0	129.5	134.0	134.8
22.5°	525.3	503.9	455.5	357.0	210.0	133.2	120.1	121.7	124.3	128.7	129.5
25°	546.0	523.7	466.5	315.5	157.5	113.4	114.1	116.5	119.0	123.1	123.4
27.5°	569.6	548.9	473.6	261.5	116.9	104.2	106.7	110.2	112.7	116.7	117.4
30°	601.2	582.0	476.0	205.6	98.0	96.0	97.2	101.5	105.2	108.7	109.3
32.5°	630.8	614.6	468.2	155.2	90.7	88.4	88.4	90.9	95.3	98.5	99.3
35°	658.1	647.6	443.3	113.6	85.3	81.4	79.5	79.5	82.2	84.9	85.7
37.5°	694.1	693.7	403.0	90.6	80.0	75.5	71.5	68.4	67.4	68.0	68.4
40°	755.9	756.5	350.4	81.3	75.5	69.5	63.3	57.7	52.4	50.6	50.4
42.5°	852.3	843.6	295.3	76.7	71.7	63.3	53.9	46.3	38.1	35.6	35.4
45°	1005.3	953.4	236.8	72.6	67.5	56.3	44.6	34.3	27.6	25.7	25.7
47.5°	1228.4	1097.7	183.5	68.2	62.1	48.3	33.7	24.7	20.3	19.3	19.4
50°	1459.0	1239.1	140.6	62.6	55.5	39.9	24.9	17.9	15.4	15.4	15.6
52.5°	1663.5	1342.7	109.6	56.5	47.3	31.4	18.9	14.0	12.9	12.7	12.9
55°	1854.9	1409.6	84.0	49.5	37.6	23.4	14.4	11.5	10.7	10.3	10.1
57.5°	2039.6	1442.6	62.9	39.9	27.2	16.9	11.5	9.8	8.9	8.4	8.2
60°	2162.5	1415.8	43.2	29.4	18.9	12.3	9.6	8.4	7.4	6.9	6.6
62.5°	2231.8	1342.3	27.8	21.2	13.4	9.1	7.6	7.0	5.6	5.1	5.1
65°	2203.8	1221.2	19.4	15.2	9.8	6.9	5.6	5.6	4.1	3.3	3.1
67.5°	1952.9	1031.6	14.8	11.3	7.0	5.1	4.3	4.9	2.5	1.6	1.6
69°	1680.3	855.0	12.7	9.4	5.8	4.1	3.7	4.5	1.8	1.1	0.9
70°	1460.4	737.6	11.5	8.2	4.9	3.5	3.3	4.3	1.8	0.9	0.8
72.5°	873.7	411.4	8.7	5.8	3.1	2.7	2.7	4.9	1.8	0.9	0.8
75°	353.1	144.9	6.4	4.1	2.3	2.3	3.3	6.2	1.6	0.8	0.6
77.5°	80.0	31.8	3.7	2.5	1.6	2.3	3.9	4.9	0.9	0.4	0.0
80°	19.4	7.8	2.3	1.6	0.9	1.8	2.9	2.7	0.2	0.0	0.0
82.5°	6.4	2.7	0.9	0.8	0.2	0.6	1.4	0.8	0.0	0.0	0.0
85°	2.7	1.6	0.4	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0
87.5°	1.8	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)