

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: P385671

Luminaire Tested: GAW-SA1B-727-U-T3

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P385671  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA1B-727-U-T3  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5106 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

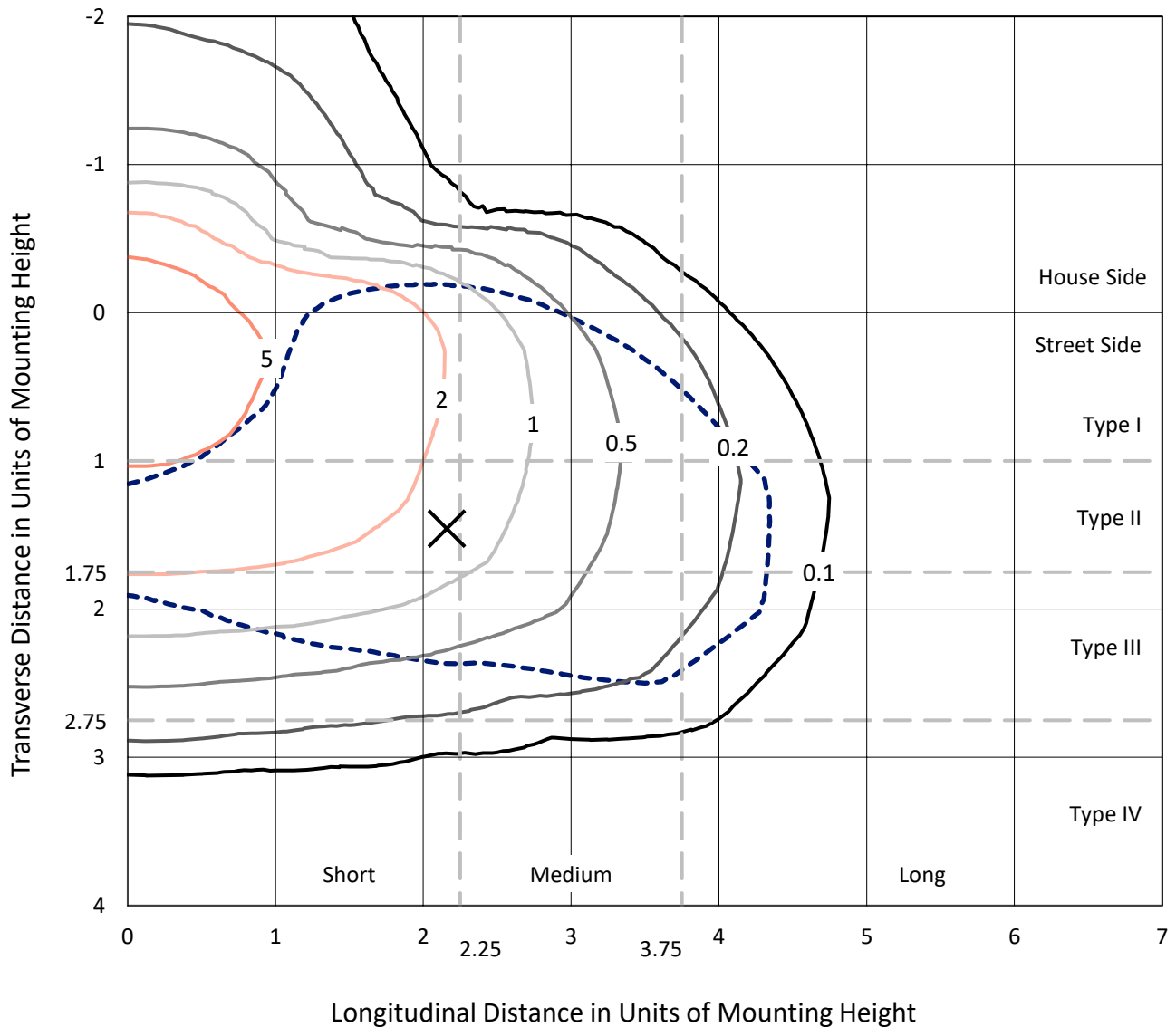
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

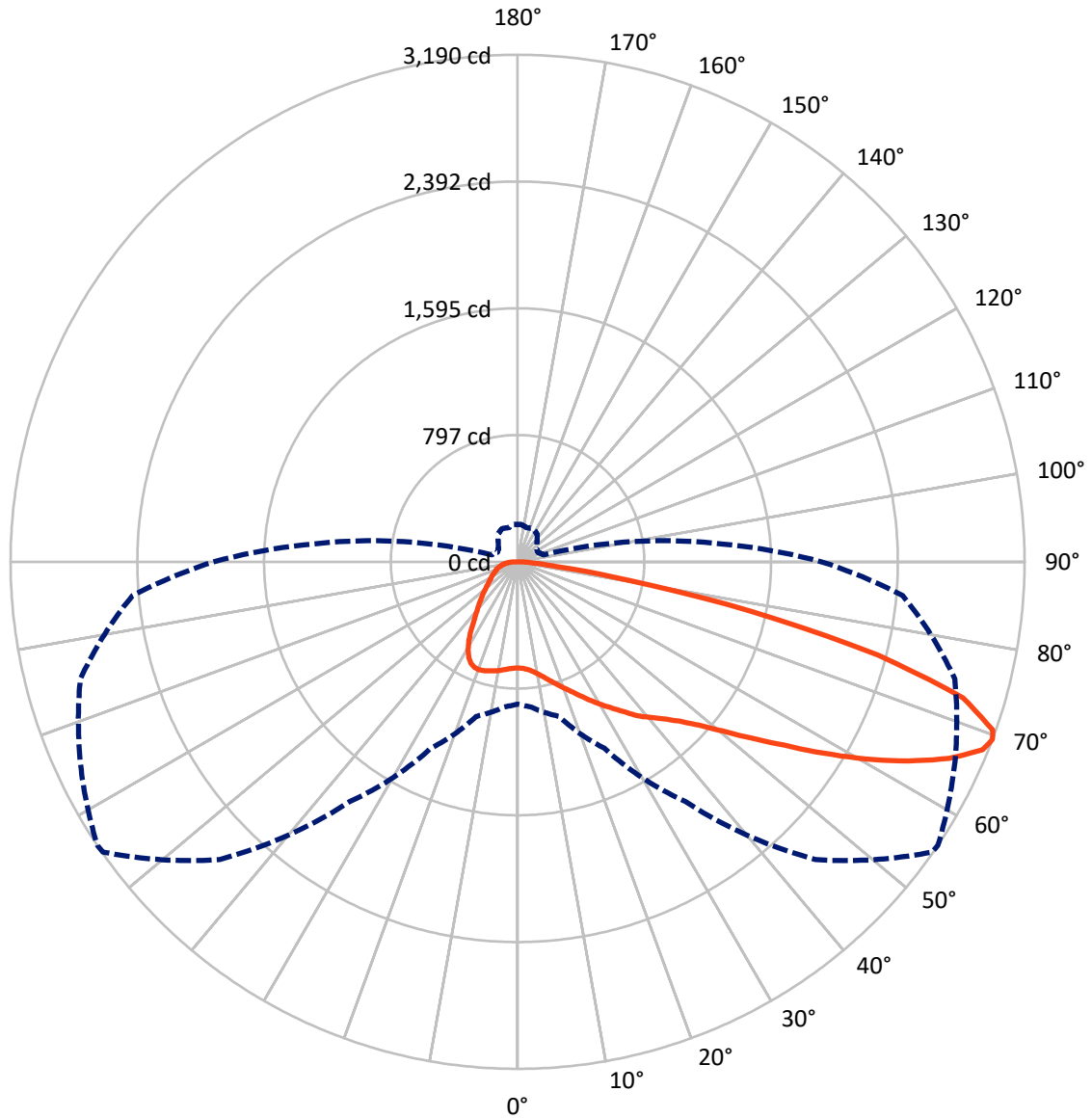
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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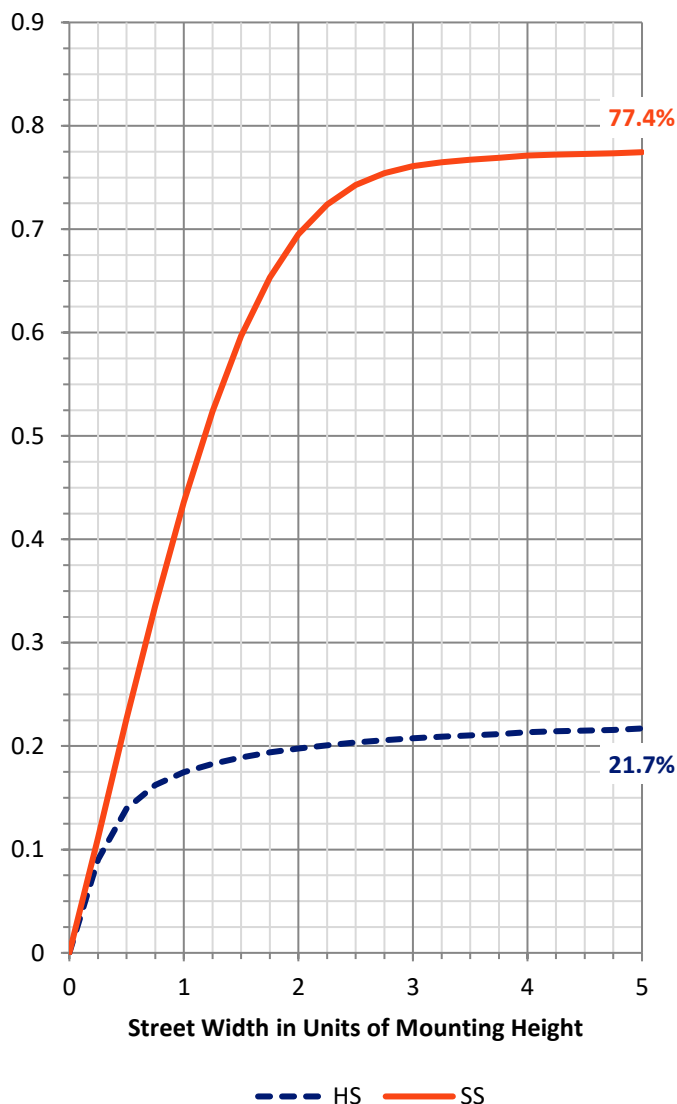
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1137.1	0.0	1137.1
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	3968.9	0.0	3968.9
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	5106.0	0.0	5106.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.6	1.3
10°-20°	210.8	4.1
20°-30°	368.0	7.2
30°-40°	528.6	10.4
40°-50°	731.6	14.3
50°-60°	1071.9	21.0
60°-70°	1306.9	25.6
70°-80°	722.5	14.2
80°-90°	100.1	2.0
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°	5106.0	100.0
0°-180°	5106.0	100.0

**Coefficient of Utilization**

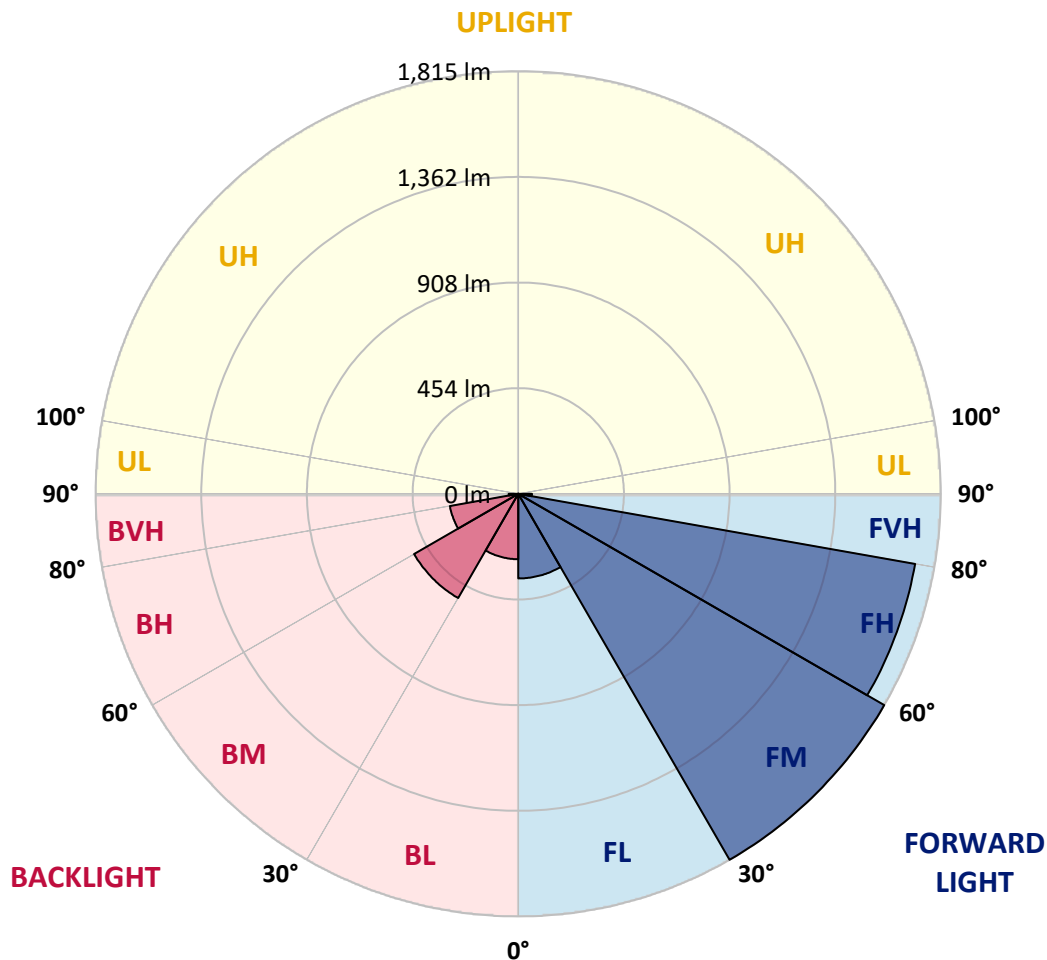


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	363.4	7.1			
FM (30°-60°)	1815.4	35.6			
FH (60°-80°)	1731.2	33.9			G1/1800
FVH (80°-90°)	58.9	1.2			G1/100
BL (0°-30°)	281.0	5.5	B1/500		
BM (30°-60°)	516.8	10.1	B1/1000		
BH (60°-80°)	298.2	5.8	B1/500		G1/500
BVH (80°-90°)	41.1	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	667.5	667.5	667.5	667.5	667.5	667.5	667.5	667.5	667.5	667.5	667.5
2.5°	671.8	672.5	671.9	673.3	671.8	672.8	671.9	671.9	671.4	669.8	668.1
5°	682.3	683.7	682.8	684.2	682.3	682.7	681.1	681.1	679.5	676.2	672.6
7.5°	698.8	700.4	699.7	701.1	698.5	698.5	696.4	696.2	693.0	687.6	683.5
10°	718.5	720.7	720.0	722.1	720.0	720.7	718.5	718.5	714.3	706.6	701.5
12.5°	747.2	749.9	747.9	747.7	746.9	748.3	746.5	746.2	742.3	731.7	724.7
15°	785.6	788.4	784.3	784.0	779.1	778.5	778.5	778.0	775.5	762.9	751.3
17.5°	829.7	830.6	827.1	821.4	815.1	811.1	810.5	811.9	811.9	797.2	778.7
20°	873.0	874.6	871.8	865.4	857.3	851.3	847.1	849.9	849.8	832.2	806.0
22.5°	920.1	923.8	919.6	911.5	902.0	895.3	887.9	890.4	890.6	868.9	832.7
25°	981.2	977.8	975.2	963.7	950.2	943.3	936.5	938.9	938.2	908.5	860.3
27.5°	1035.2	1035.9	1032.3	1020.2	1004.6	989.4	989.1	990.7	988.0	949.7	886.3
30°	1098.0	1098.3	1093.4	1082.5	1065.4	1045.9	1041.3	1044.0	1038.3	988.7	913.8
32.5°	1160.4	1162.2	1156.7	1143.5	1129.8	1106.0	1096.9	1098.7	1084.6	1028.7	942.1
35°	1215.1	1217.6	1215.8	1207.0	1192.1	1171.7	1160.8	1159.7	1142.3	1077.6	979.6
37.5°	1270.9	1273.1	1271.2	1263.8	1257.8	1236.2	1230.4	1230.4	1200.2	1127.5	1027.2
40°	1328.2	1331.7	1329.4	1319.2	1314.1	1304.3	1290.4	1287.0	1254.3	1187.5	1105.0
42.5°	1381.5	1386.1	1395.2	1389.2	1378.9	1380.3	1352.3	1350.5	1326.6	1276.1	1202.6
45°	1457.1	1463.8	1479.3	1474.7	1472.6	1464.9	1431.6	1430.1	1420.9	1395.4	1323.8
47.5°	1539.6	1548.8	1576.7	1577.6	1600.3	1585.7	1540.5	1535.1	1537.2	1538.2	1471.7
50°	1615.6	1625.6	1671.6	1693.2	1746.7	1749.8	1677.5	1672.6	1680.9	1705.2	1644.1
52.5°	1676.3	1689.0	1746.3	1813.2	1904.8	1930.8	1846.2	1842.5	1848.7	1890.6	1839.0
55°	1720.8	1734.5	1797.0	1918.7	2065.0	2111.0	2040.4	2036.9	2040.8	2094.1	2051.0
57.5°	1731.2	1734.5	1825.1	1989.8	2200.3	2310.6	2278.1	2271.0	2252.0	2298.5	2284.9
60°	1682.5	1695.8	1801.9	2014.7	2305.0	2507.4	2526.4	2517.6	2464.3	2502.3	2491.4
62.5°	1583.6	1607.5	1715.2	1976.7	2346.0	2668.2	2770.0	2759.5	2667.7	2692.3	2639.9
65°	1422.1	1432.3	1545.4	1845.7	2293.9	2771.1	2987.3	2982.0	2866.4	2827.9	2667.3
67.5°	1133.3	1152.5	1248.5	1571.8	2080.9	2759.0	3155.3	3154.7	2996.2	2878.2	2570.0
69°	895.3	915.2	1006.7	1294.8	1841.3	2648.0	3183.4	3189.6	3032.8	2847.6	2431.1
70°	713.8	736.8	799.6	1090.6	1628.6	2501.6	3160.0	3171.1	3025.8	2797.1	2302.9
72.5°	303.8	322.4	367.1	562.2	992.6	1868.0	2889.3	2931.2	2862.7	2560.0	1903.2
75°	132.6	138.4	158.7	229.2	440.6	1016.7	2263.5	2340.8	2447.8	2163.9	1417.7
77.5°	97.1	99.6	110.6	134.6	197.7	384.0	1455.6	1500.6	1765.3	1574.6	869.6
80°	75.1	76.9	85.5	98.9	129.1	155.3	663.8	702.5	992.6	808.8	362.2
82.5°	59.8	61.0	67.0	72.8	89.2	94.1	220.4	244.5	366.4	223.4	95.9
85°	55.6	57.0	59.1	53.1	57.2	55.2	95.3	99.7	110.6	87.8	40.1
87.5°	25.2	29.7	58.6	41.3	30.4	24.3	39.0	40.8	45.9	46.1	17.8
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°	667.5	667.5	667.5	667.5	667.5	667.5	667.5	667.5	667.5	667.5	667.5
2.5°	669.1	668.6	669.5	667.4	670.0	669.8	668.9	669.3	671.1	670.9	671.1
5°	673.2	672.8	673.9	672.3	675.4	676.5	676.7	678.3	680.2	680.7	680.7
7.5°	683.4	683.4	683.9	681.8	683.9	683.7	682.8	684.4	686.4	686.5	686.4
10°	701.0	701.1	700.2	694.8	693.0	688.3	683.9	684.1	686.5	688.5	689.0
12.5°	723.1	722.4	718.5	708.5	701.1	691.5	686.9	686.7	689.2	690.8	691.3
15°	748.4	746.5	736.5	720.1	707.1	697.6	690.2	688.5	687.1	685.3	685.5
17.5°	772.4	768.0	751.3	728.6	714.8	702.2	687.9	676.5	668.6	664.0	662.6
20°	796.6	788.0	763.9	736.5	719.1	696.0	668.6	645.4	630.9	624.3	623.0
22.5°	818.8	804.9	775.7	744.8	715.7	675.3	632.2	598.4	578.4	569.4	570.1
25°	840.4	821.1	788.0	750.6	698.8	638.7	581.5	540.0	516.8	506.8	506.4
27.5°	859.4	837.5	801.4	745.8	667.4	586.6	521.5	481.1	461.7	453.1	451.7
30°	881.2	858.0	819.2	727.7	621.3	526.5	463.0	434.5	420.7	412.1	410.5
32.5°	907.8	886.0	833.8	694.8	562.3	463.7	417.2	397.4	384.9	375.2	373.4
35°	946.5	922.9	837.5	647.7	497.6	414.1	383.6	363.2	346.3	333.9	332.6
37.5°	995.1	969.2	829.0	586.6	434.8	381.9	355.7	330.5	308.5	290.9	288.1
40°	1065.1	1026.0	805.6	516.3	388.6	357.1	328.4	299.7	272.5	251.9	247.8
42.5°	1149.1	1092.7	769.7	446.3	354.6	331.9	301.3	265.8	239.7	225.1	223.0
45°	1256.1	1162.0	720.0	385.0	321.2	306.8	272.1	239.4	223.2	212.5	210.7
47.5°	1378.2	1239.7	667.7	335.3	292.9	283.2	248.7	227.6	214.8	206.3	204.7
50°	1528.2	1327.5	612.3	294.5	264.4	254.9	237.6	221.1	210.9	204.4	202.8
52.5°	1697.4	1426.5	572.4	262.3	240.8	233.9	231.8	217.6	209.3	204.4	202.8
55°	1879.6	1527.3	529.3	235.2	220.4	222.3	228.0	217.9	212.3	206.3	204.0
57.5°	2062.1	1631.5	481.3	212.3	204.2	213.7	225.3	218.6	213.9	208.1	206.0
60°	2206.3	1697.4	406.9	193.1	191.4	204.2	219.0	213.4	207.2	207.4	207.0
62.5°	2273.7	1693.9	324.7	176.1	178.5	191.4	208.8	205.1	200.0	206.9	207.4
65°	2235.8	1609.5	252.8	160.6	164.8	178.0	198.2	201.1	202.8	216.0	217.8
67.5°	2077.2	1445.2	195.8	147.1	152.3	168.9	199.3	219.0	221.3	235.2	235.0
69°	1913.1	1291.1	170.1	140.0	146.2	171.1	213.0	230.4	221.8	236.6	234.5
70°	1775.5	1169.2	156.4	135.3	143.4	175.2	222.2	230.3	219.2	231.8	228.3
72.5°	1367.4	841.1	132.6	126.5	133.9	167.6	224.8	225.1	213.0	215.5	209.5
75°	937.9	531.6	115.7	114.5	119.4	151.1	216.4	215.1	197.0	193.5	188.6
77.5°	517.1	270.0	98.3	103.1	106.4	133.9	196.7	194.9	179.9	172.6	170.8
80°	199.5	118.2	83.0	91.6	93.8	115.9	172.4	170.8	158.3	148.8	146.2
82.5°	75.3	61.9	68.6	79.3	78.6	95.7	146.0	145.1	133.0	119.1	114.9
85°	34.8	37.1	54.4	65.4	60.3	70.9	116.8	118.4	103.6	87.1	87.1
87.5°	14.8	20.8	38.5	49.4	40.6	47.8	85.7	81.8	75.1	52.1	48.9
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)