

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P319985

Luminaire Tested: **GAN-SA1A-740-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319985  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1A-740-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4637 lumens  
Efficiency: N/A  
Efficacy: 136.4 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

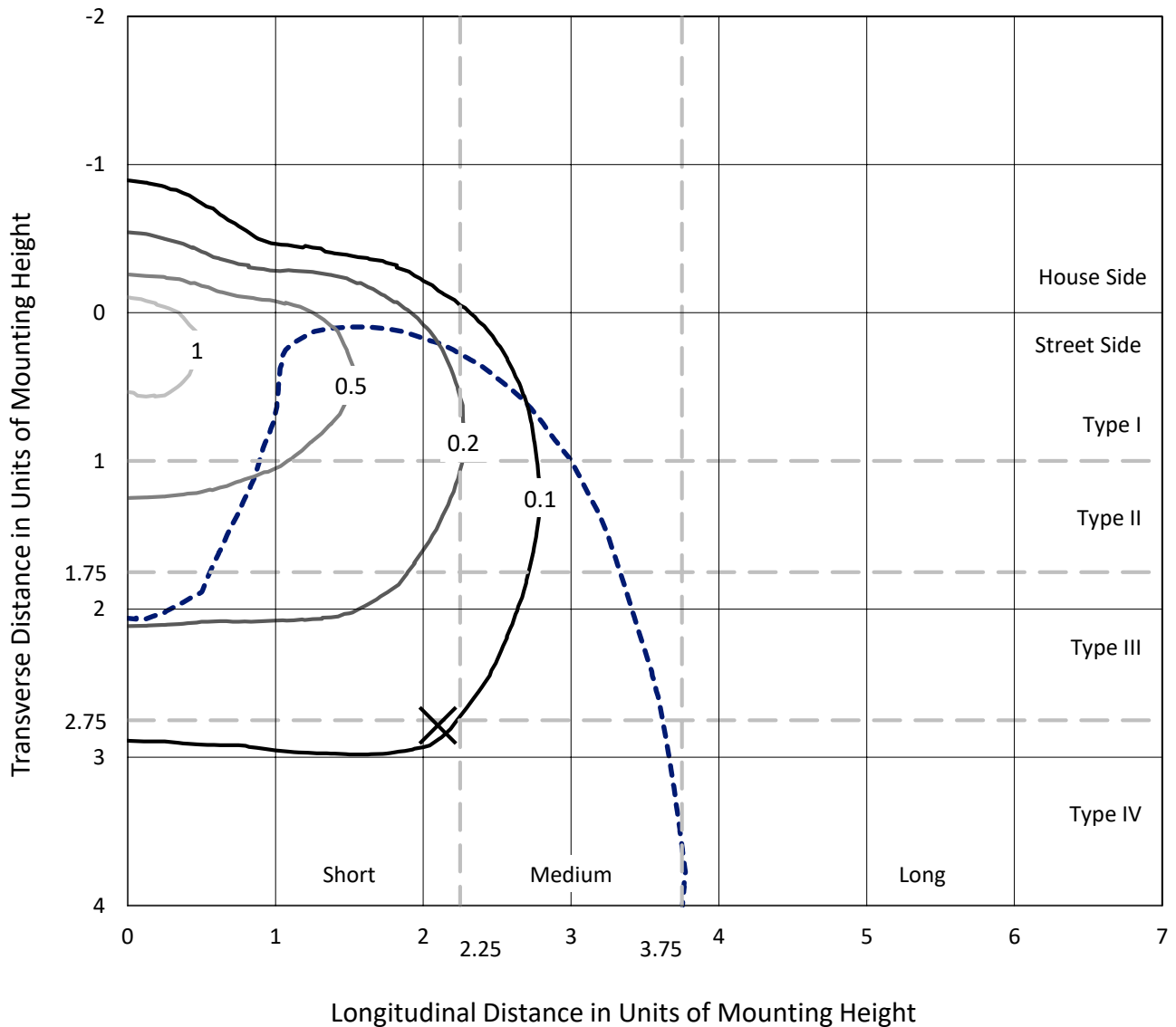
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

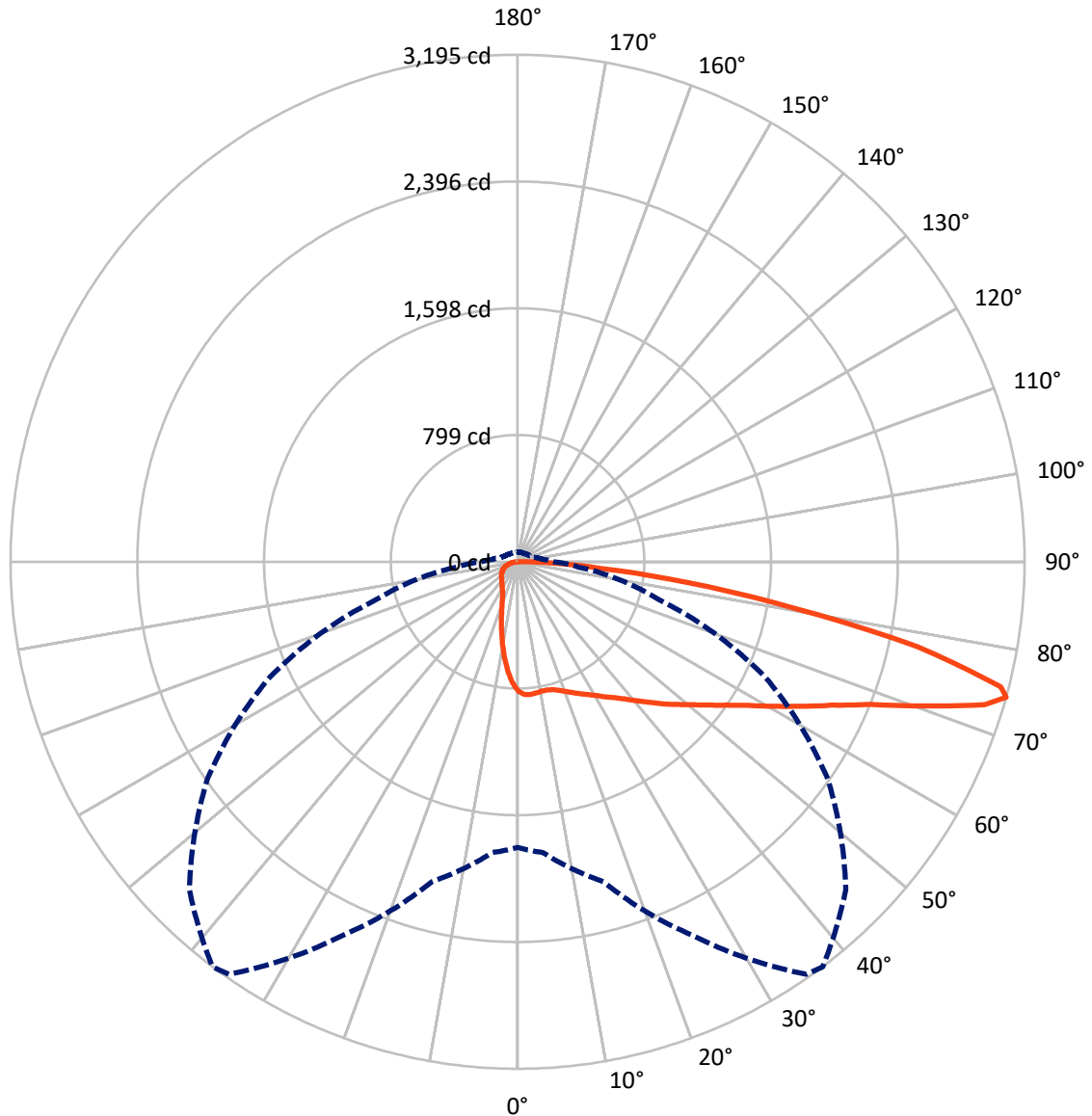
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral    - - - Horizontal Cone Through 74-Deg Vertical

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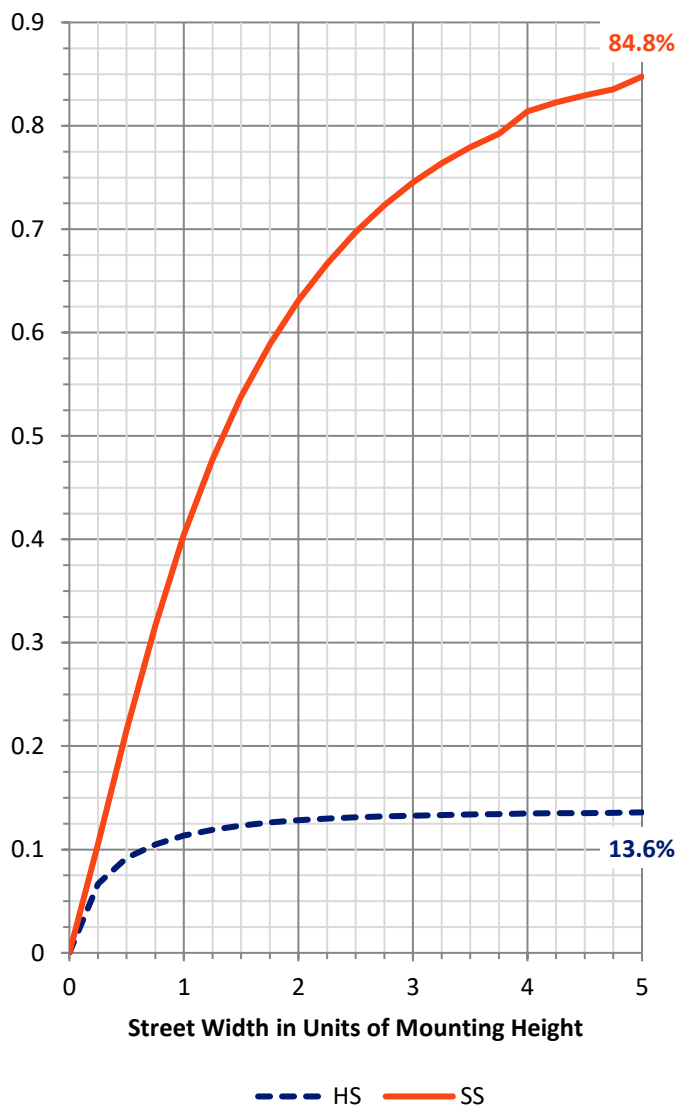
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	638.0	0.0	638.0
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	3999.0	0.0	3999.0
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	4637.0	0.0	4637.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.9	1.6
10°-20°	184.4	4.0
20°-30°	284.2	6.1
30°-40°	413.2	8.9
40°-50°	608.2	13.1
50°-60°	854.1	18.4
60°-70°	1081.0	23.3
70°-80°	951.8	20.5
80°-90°	188.2	4.1
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°	4637.0	100.0
0°-180°	4637.0	100.0

**Coefficient of Utilization**

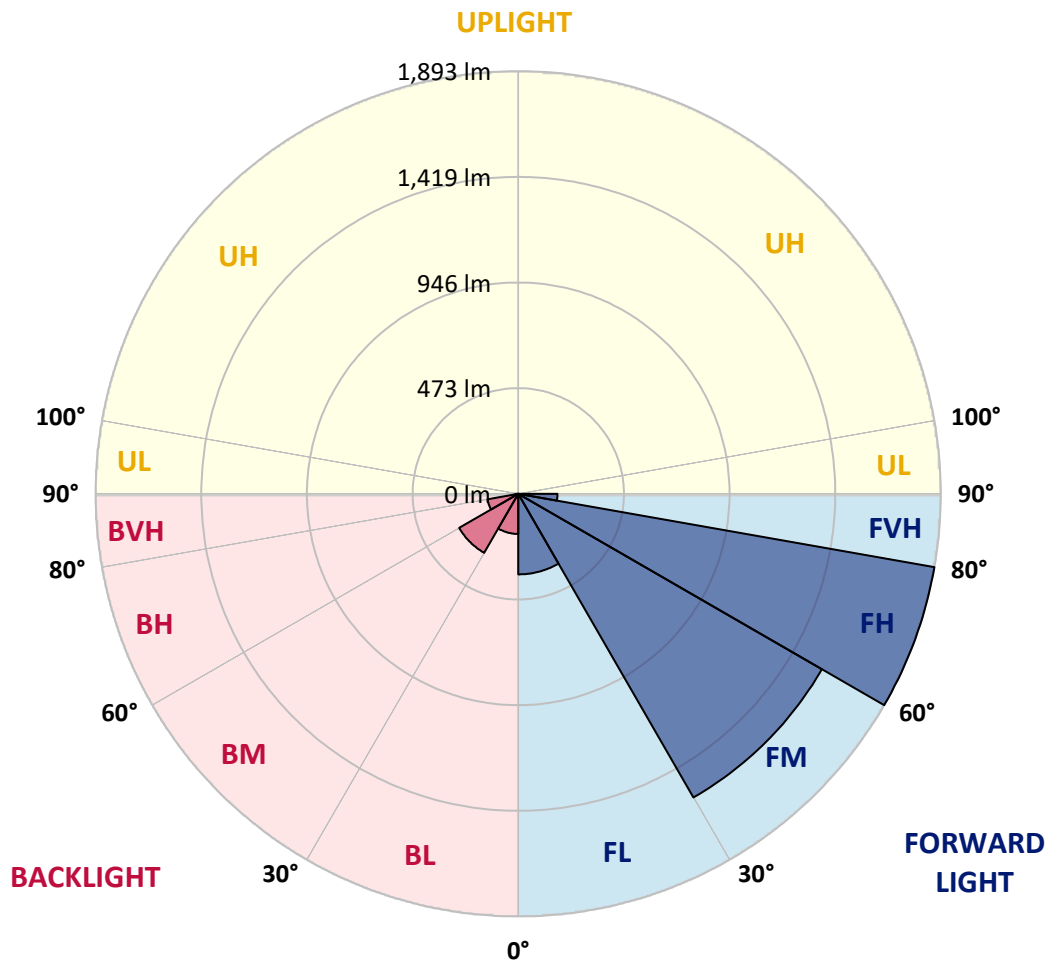


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	360.8	7.8			
FM (30°-60°)	1570.1	33.9			
FH (60°-80°)	1892.6	40.8			G2/5000
FVH (80°-90°)	175.5	3.8			G2/225
BL (0°-30°)	179.7	3.9	B1/500		
BM (30°-60°)	305.3	6.6	B1/1000		
BH (60°-80°)	140.2	3.0	B1/500		G1/500
BVH (80°-90°)	12.7	0.3			G1/100
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°	37°	45°	55°	65°	75°	85°
0°	817.0	817.0	817.0	817.0	817.0	817.0	817.0	817.0	817.0	817.0	817.0
2.5°	845.0	845.1	845.0	843.6	840.5	837.9	835.8	832.7	825.8	820.6	812.8
5°	853.0	852.0	851.3	848.9	844.0	841.0	836.9	831.1	819.8	809.3	796.6
7.5°	849.2	848.1	846.6	843.6	838.1	835.6	829.9	822.2	808.7	795.0	776.7
10°	837.6	837.3	836.6	836.0	831.2	829.3	824.0	815.9	802.5	785.8	764.4
12.5°	824.7	825.5	828.1	831.6	829.4	828.5	825.2	819.6	805.9	787.9	762.1
15°	816.5	818.8	825.8	834.8	836.6	836.3	835.5	831.9	817.3	797.4	767.4
17.5°	813.8	817.5	830.9	845.8	851.0	852.1	852.5	846.3	830.1	809.0	772.8
20°	818.8	823.6	843.2	863.6	871.9	872.6	871.1	860.3	842.2	819.0	775.7
22.5°	834.2	838.4	862.9	886.0	895.4	896.4	892.0	875.7	854.9	830.7	779.8
25°	863.7	869.0	893.5	916.5	921.4	921.6	915.2	894.9	871.6	847.2	788.6
27.5°	902.3	907.5	929.6	952.1	949.5	948.0	939.4	919.1	893.3	869.9	804.3
30°	945.2	951.0	971.9	987.9	981.7	978.7	971.7	945.6	923.5	901.0	828.3
32.5°	989.7	994.9	1013.2	1024.1	1016.3	1015.0	1004.4	980.5	962.9	948.3	867.2
35°	1035.2	1039.0	1057.0	1063.2	1052.7	1052.4	1049.5	1027.6	1016.5	1023.3	923.7
37.5°	1081.8	1082.8	1098.1	1098.5	1095.4	1096.7	1099.8	1086.0	1089.1	1110.5	997.2
40°	1123.3	1125.9	1137.0	1140.4	1145.8	1150.4	1165.9	1156.9	1180.9	1218.8	1088.7
42.5°	1154.0	1159.1	1176.9	1185.7	1203.2	1210.3	1232.2	1240.6	1288.9	1345.7	1197.4
45°	1180.0	1187.8	1216.4	1234.5	1264.1	1276.7	1308.0	1335.9	1410.9	1483.4	1311.9
47.5°	1208.1	1218.0	1253.8	1288.4	1328.6	1342.8	1399.8	1441.6	1541.1	1622.0	1419.9
50°	1249.4	1257.1	1292.0	1346.4	1396.5	1414.8	1493.7	1553.7	1673.4	1753.9	1513.5
52.5°	1307.0	1304.1	1333.7	1409.9	1477.2	1499.8	1594.0	1672.9	1807.5	1873.3	1592.6
55°	1365.0	1360.1	1380.9	1476.4	1571.3	1595.0	1704.4	1792.6	1935.1	1980.8	1653.2
57.5°	1429.5	1420.2	1437.7	1551.4	1678.5	1706.7	1828.1	1919.9	2060.5	2067.7	1691.7
60°	1496.0	1483.4	1503.0	1644.3	1814.5	1847.9	1972.8	2044.0	2178.8	2137.3	1704.1
62.5°	1554.2	1545.3	1575.6	1748.1	1967.9	2004.5	2114.9	2176.0	2295.4	2166.2	1659.4
65°	1605.0	1606.4	1658.7	1864.7	2138.9	2178.0	2277.9	2338.7	2387.2	2149.1	1554.7
67.5°	1665.6	1673.9	1763.1	2018.2	2354.2	2397.0	2515.1	2516.1	2438.5	2048.4	1348.5
70°	1753.9	1771.1	1906.7	2231.2	2660.3	2719.1	2810.2	2620.3	2366.5	1775.7	1061.0
72.5°	1832.3	1864.4	2059.4	2474.9	3033.4	3078.0	2982.9	2560.2	2065.4	1330.7	661.0
74°	1800.5	1840.2	2087.1	2595.0	3173.8	3195.2	2924.6	2384.7	1722.1	921.6	384.2
75°	1731.9	1775.0	2046.6	2593.8	3156.0	3144.1	2783.8	2184.3	1418.3	628.5	255.6
77.5°	1397.7	1443.3	1724.5	2223.0	2587.8	2576.5	2138.4	1465.3	621.2	206.1	129.9
80°	812.6	847.4	1070.5	1411.7	1745.0	1765.4	1406.3	725.1	244.4	115.8	88.0
82.5°	361.0	385.0	517.1	720.7	1053.0	1079.3	736.5	379.9	150.9	70.4	52.9
85°	236.8	254.6	313.9	343.2	501.5	519.4	360.5	295.8	99.6	38.7	38.9
87.5°	170.4	187.5	233.2	203.7	230.1	217.9	196.2	273.8	40.0	22.1	13.1
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°	817.0	817.0	817.0	817.0	817.0	817.0	817.0	817.0	817.0	817.0	817.0
2.5°	809.3	806.7	800.9	789.7	783.5	778.3	769.7	764.6	762.3	762.1	763.1
5°	789.3	783.2	768.0	749.4	734.5	721.0	704.2	694.0	686.8	682.6	683.7
7.5°	765.9	756.4	732.6	702.8	679.0	652.7	626.7	611.2	599.1	590.1	591.8
10°	749.9	736.8	702.0	659.2	619.5	581.3	545.6	524.2	507.2	494.1	495.1
12.5°	744.5	726.9	678.7	621.5	565.8	513.5	466.8	434.0	416.5	401.7	402.8
15°	745.3	721.6	659.1	587.5	517.5	451.6	395.0	356.6	332.9	322.6	322.8
17.5°	746.0	715.6	638.5	551.1	469.6	393.8	332.2	293.4	271.0	261.5	261.7
20°	743.8	705.8	613.0	509.3	419.6	340.7	281.1	248.1	231.1	223.8	223.8
22.5°	741.1	694.2	584.3	467.3	370.3	294.7	244.5	219.4	209.6	204.7	204.5
25°	742.4	685.5	554.9	424.2	324.9	257.9	220.2	203.5	197.0	193.9	193.7
27.5°	749.4	681.5	527.7	381.2	285.2	230.3	203.8	192.1	187.8	185.9	185.9
30°	762.1	681.5	499.5	344.6	252.2	209.9	191.3	183.3	180.3	179.0	179.0
32.5°	784.4	685.2	472.2	308.4	225.9	193.9	180.8	175.4	173.1	172.5	172.5
35°	822.6	697.9	445.6	274.1	204.7	180.8	170.9	167.7	166.1	166.0	166.4
37.5°	876.3	723.9	420.6	248.8	189.6	170.2	162.5	160.1	159.1	159.9	160.6
40°	943.9	759.2	397.9	225.9	178.2	161.7	154.8	153.2	152.7	153.9	154.8
42.5°	1025.6	806.9	379.3	209.4	169.4	154.5	148.3	146.4	145.9	147.2	148.5
45°	1114.0	858.2	366.2	197.2	162.5	149.1	142.6	140.5	139.5	140.1	141.6
47.5°	1194.3	906.7	361.0	188.5	156.0	144.6	137.5	134.9	133.3	133.0	134.1
50°	1262.1	942.8	363.4	183.3	150.8	139.5	132.6	129.7	127.2	125.8	126.6
52.5°	1311.4	965.5	365.7	181.0	146.7	133.9	127.2	124.5	121.2	118.7	118.7
55°	1347.2	970.7	360.7	179.2	143.6	127.9	121.2	118.6	115.3	112.5	112.2
57.5°	1361.3	956.0	341.9	176.6	141.5	122.2	114.8	112.9	110.1	106.8	106.7
60°	1342.3	910.6	305.6	171.0	138.7	117.4	108.5	107.2	105.8	102.7	102.6
62.5°	1266.2	811.0	258.7	159.7	133.1	112.4	102.6	103.2	103.4	101.3	100.9
65°	1128.2	674.1	213.0	145.0	124.8	106.3	96.5	99.6	101.4	101.1	100.6
67.5°	927.6	524.6	180.5	129.5	113.8	98.0	90.0	93.6	95.1	96.2	95.9
70°	688.5	370.0	149.3	113.2	100.6	88.2	81.5	83.3	82.3	83.6	84.1
72.5°	383.8	222.0	121.7	96.9	86.9	76.8	72.0	71.7	69.6	69.6	69.6
74°	230.3	162.8	107.0	86.7	78.6	69.3	65.2	63.7	61.7	61.9	61.7
75°	185.2	140.0	98.2	80.0	72.7	64.8	60.8	58.8	57.3	57.3	57.2
77.5°	117.0	106.3	79.1	63.7	58.1	53.4	50.6	48.0	48.0	47.9	47.7
80°	88.4	84.6	61.6	48.2	44.6	41.0	39.2	38.1	38.1	38.5	38.4
82.5°	60.6	63.7	43.3	33.6	31.9	29.2	28.9	29.1	28.6	27.9	27.8
85°	44.3	47.9	29.2	21.2	19.4	17.8	19.1	19.8	18.9	17.5	16.8
87.5°	17.0	31.4	15.7	8.8	8.2	7.0	8.2	8.5	9.1	7.2	7.4
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)