

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: P319945

Luminaire Tested: **GAN-SA1A-730-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319945  
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-730-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 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: 4223 lumens  
Efficiency: N/A  
Efficacy: 124.2 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

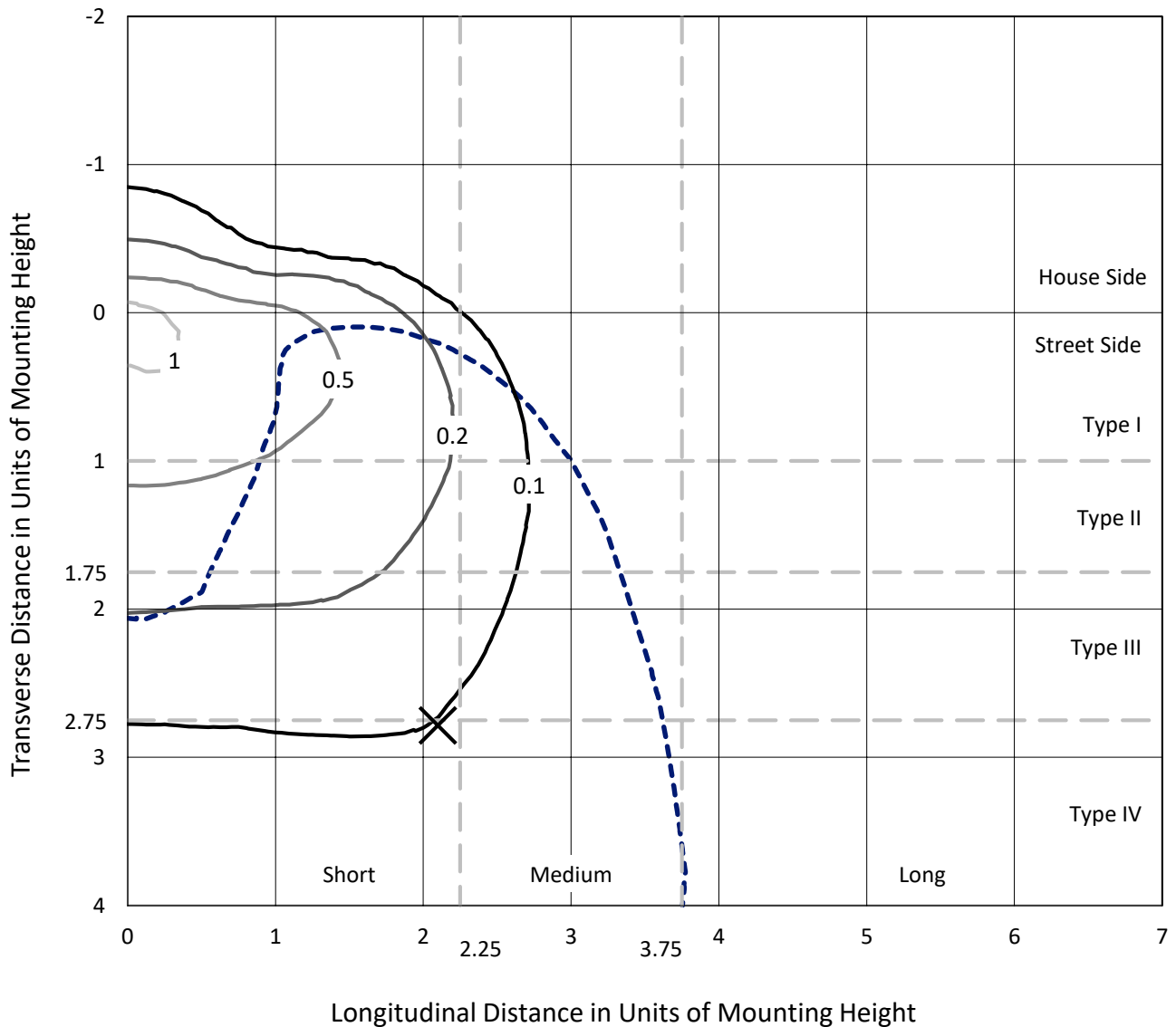
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

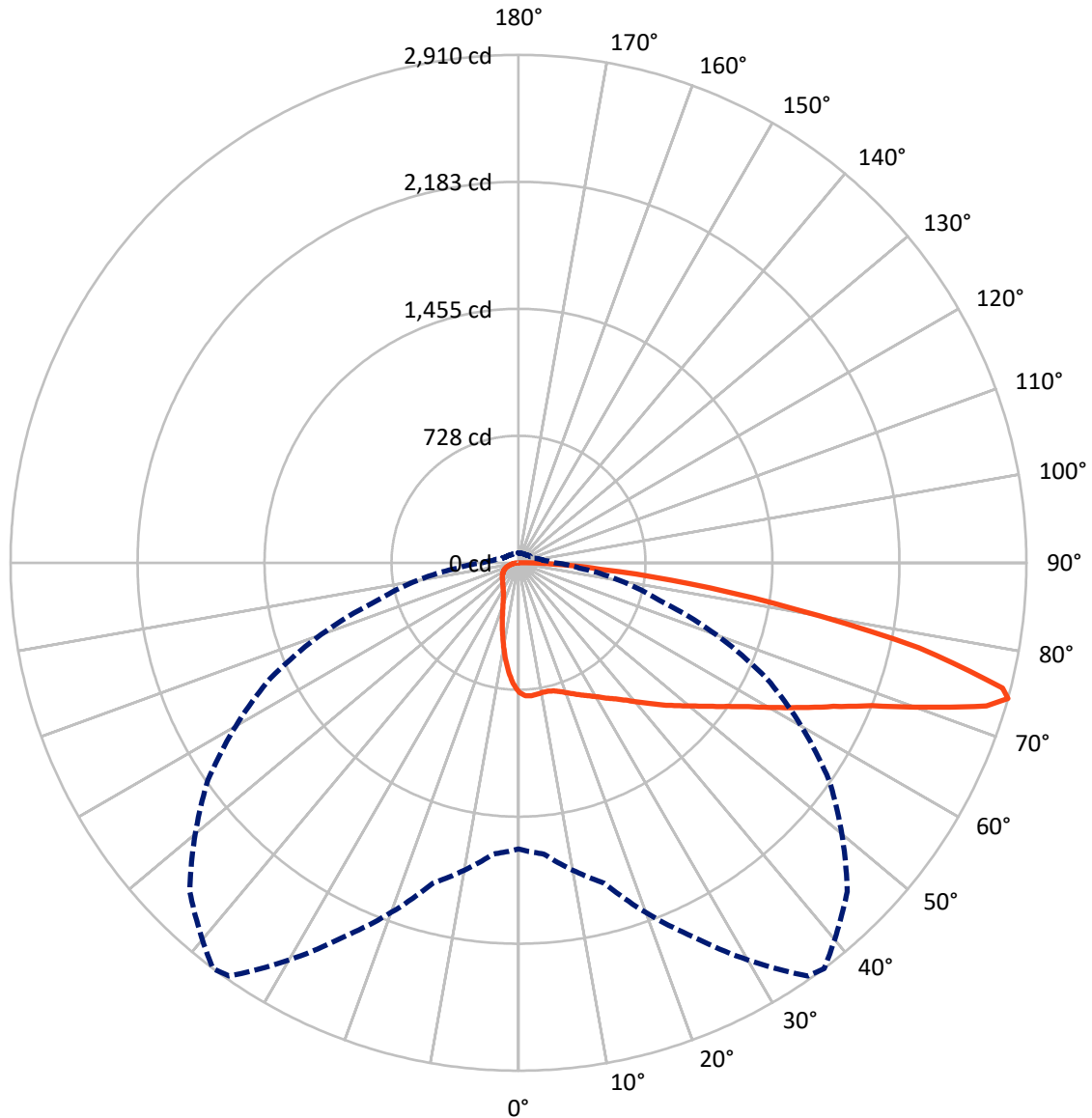
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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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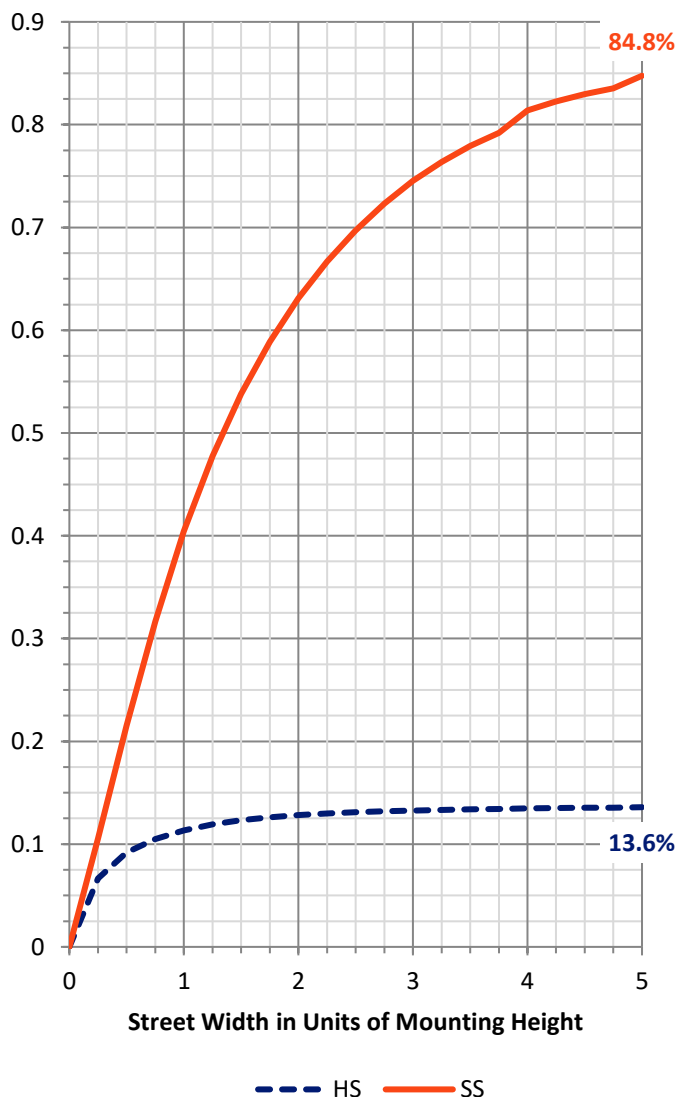
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	581.1	0.0	581.1
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	3641.9	0.0	3641.9
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	4223.0	0.0	4223.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.5	1.6
10°-20°	168.0	4.0
20°-30°	258.8	6.1
30°-40°	376.3	8.9
40°-50°	553.9	13.1
50°-60°	777.8	18.4
60°-70°	984.5	23.3
70°-80°	866.9	20.5
80°-90°	171.4	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°	4223.0	100.0
0°-180°	4223.0	100.0

**Coefficient of Utilization**



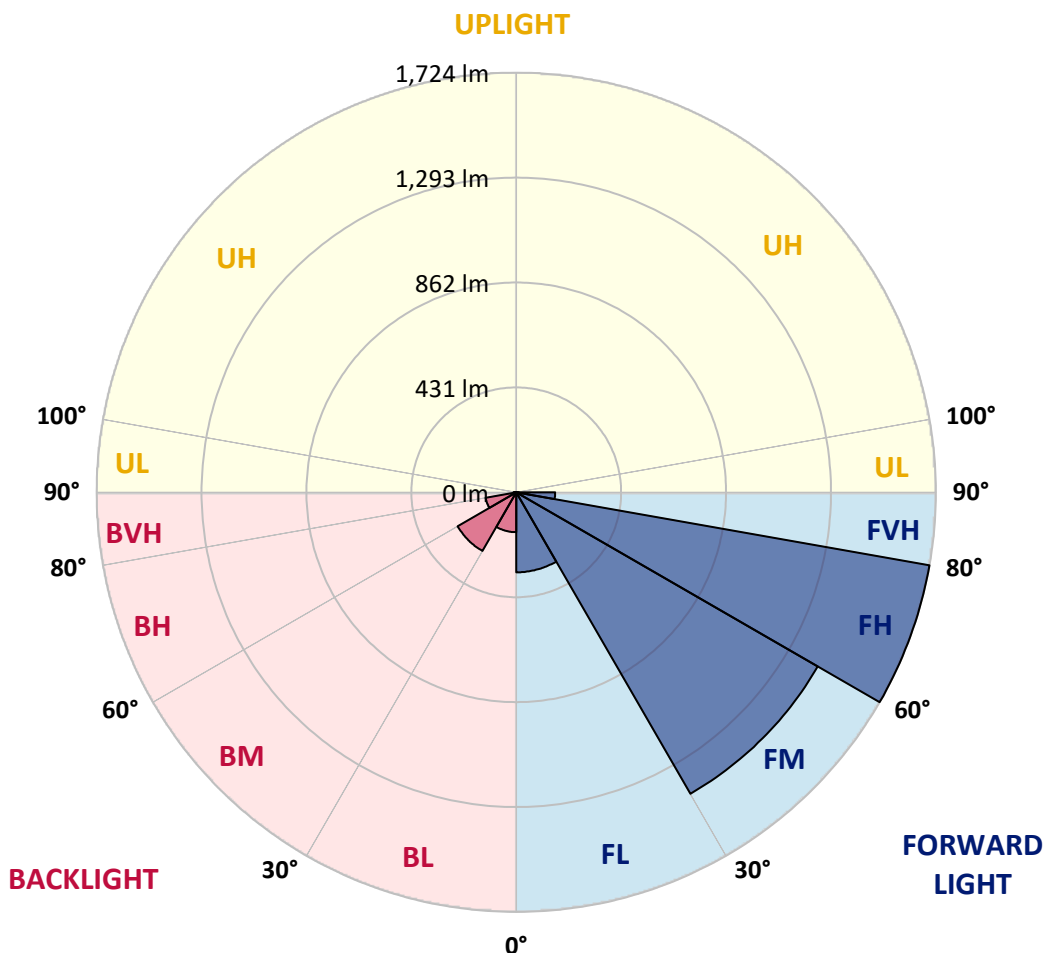
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	328.6	7.8			
FM (30°-60°)	1429.9	33.9			
FH (60°-80°)	1723.6	40.8			G1/1800
FVH (80°-90°)	159.8	3.8			G2/225
BL (0°-30°)	163.7	3.9	B1/500		
BM (30°-60°)	278.1	6.6	B1/1000		
BH (60°-80°)	127.7	3.0	B1/500		G1/500
BVH (80°-90°)	11.6	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°	744.1	744.1	744.1	744.1	744.1	744.1	744.1	744.1	744.1	744.1	744.1
2.5°	769.5	769.7	769.5	768.3	765.5	763.1	761.2	758.4	752.1	747.3	740.2
5°	776.8	775.9	775.3	773.1	768.6	765.9	762.2	756.9	746.6	737.1	725.5
7.5°	773.4	772.3	771.0	768.3	763.3	761.0	755.8	748.8	736.5	724.0	707.3
10°	762.8	762.5	761.9	761.3	757.0	755.2	750.5	743.0	730.8	715.7	696.2
12.5°	751.1	751.8	754.2	757.3	755.4	754.5	751.5	746.5	734.0	717.6	694.1
15°	743.6	745.7	752.1	760.3	761.9	761.6	760.9	757.6	744.4	726.2	698.9
17.5°	741.1	744.5	756.7	770.3	775.0	776.1	776.4	770.7	756.0	736.8	703.8
20°	745.7	750.0	767.9	786.5	794.1	794.7	793.3	783.5	767.0	745.9	706.4
22.5°	759.7	763.6	785.9	806.9	815.5	816.4	812.4	797.5	778.6	756.6	710.2
25°	786.6	791.4	813.7	834.7	839.1	839.3	833.5	815.0	793.8	771.6	718.2
27.5°	821.7	826.5	846.6	867.1	864.7	863.4	855.5	837.0	813.5	792.3	732.5
30°	860.8	866.1	885.1	899.7	894.0	891.3	884.9	861.1	841.1	820.5	754.3
32.5°	901.3	906.1	922.7	932.7	925.6	924.4	914.7	893.0	876.9	863.7	789.7
35°	942.8	946.2	962.6	968.3	958.7	958.4	955.8	935.8	925.7	932.0	841.2
37.5°	985.2	986.1	1000.1	1000.4	997.6	998.7	1001.6	989.1	991.9	1011.4	908.2
40°	1023.0	1025.4	1035.5	1038.6	1043.5	1047.7	1061.8	1053.6	1075.5	1110.0	991.5
42.5°	1051.0	1055.6	1071.8	1079.8	1095.7	1102.3	1122.2	1129.8	1173.8	1225.6	1090.5
45°	1074.6	1081.8	1107.8	1124.3	1151.2	1162.7	1191.2	1216.7	1285.0	1351.0	1194.8
47.5°	1100.2	1109.3	1141.8	1173.4	1210.0	1222.9	1274.8	1312.9	1403.5	1477.1	1293.1
50°	1137.8	1144.8	1176.7	1226.2	1271.9	1288.5	1360.4	1415.0	1524.0	1597.3	1378.4
52.5°	1190.3	1187.7	1214.6	1284.1	1345.3	1365.9	1451.7	1523.6	1646.1	1706.1	1450.4
55°	1243.2	1238.7	1257.6	1344.6	1431.0	1452.6	1552.3	1632.6	1762.3	1804.0	1505.6
57.5°	1301.9	1293.4	1309.3	1412.9	1528.6	1554.3	1664.9	1748.5	1876.6	1883.1	1540.7
60°	1362.5	1351.0	1368.9	1497.5	1652.5	1682.9	1796.7	1861.5	1984.3	1946.5	1552.0
62.5°	1415.4	1407.4	1434.9	1592.0	1792.2	1825.5	1926.1	1981.7	2090.5	1972.8	1511.2
65°	1461.7	1463.0	1510.6	1698.2	1948.0	1983.5	2074.5	2129.9	2174.1	1957.2	1415.9
67.5°	1516.9	1524.4	1605.7	1838.0	2144.0	2183.0	2290.5	2291.4	2220.8	1865.5	1228.1
70°	1597.3	1613.0	1736.4	2032.0	2422.8	2476.3	2559.3	2386.3	2155.2	1617.1	966.3
72.5°	1668.7	1697.9	1875.5	2253.9	2762.5	2803.2	2716.6	2331.6	1881.0	1211.9	602.0
74°	1639.7	1675.9	1900.8	2363.3	2890.5	2910.0	2663.5	2171.8	1568.3	839.3	349.9
75°	1577.3	1616.5	1863.9	2362.2	2874.3	2863.4	2535.2	1989.3	1291.6	572.4	232.8
77.5°	1272.9	1314.4	1570.6	2024.6	2356.7	2346.5	1947.5	1334.5	565.7	187.7	118.3
80°	740.1	771.7	974.9	1285.7	1589.2	1607.8	1280.8	660.3	222.5	105.5	80.2
82.5°	328.8	350.6	471.0	656.3	959.0	983.0	670.7	346.0	137.5	64.1	48.2
85°	215.7	231.9	285.9	312.5	456.7	473.0	328.3	269.4	90.7	35.3	35.4
87.5°	155.2	170.8	212.4	185.5	209.6	198.4	178.7	249.3	36.4	20.1	11.9
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°	744.1	744.1	744.1	744.1	744.1	744.1	744.1	744.1	744.1	744.1	744.1
2.5°	737.1	734.7	729.3	719.2	713.6	708.8	700.9	696.3	694.2	694.1	695.0
5°	718.8	713.3	699.4	682.5	669.0	656.6	641.3	632.1	625.5	621.7	622.7
7.5°	697.5	688.9	667.2	640.1	618.4	594.4	570.8	556.6	545.6	537.5	538.9
10°	682.9	671.0	639.4	600.4	564.2	529.4	496.8	477.4	461.9	450.0	450.9
12.5°	678.0	662.0	618.1	566.0	515.3	467.7	425.1	395.2	379.3	365.8	366.8
15°	678.8	657.2	600.2	535.1	471.3	411.3	359.7	324.7	303.2	293.8	293.9
17.5°	679.4	651.7	581.5	501.9	427.7	358.7	302.6	267.2	246.8	238.2	238.3
20°	677.4	642.8	558.3	463.8	382.2	310.3	256.0	226.0	210.5	203.8	203.8
22.5°	674.9	632.2	532.1	425.6	337.2	268.4	222.7	199.8	190.9	186.4	186.2
25°	676.1	624.3	505.3	386.3	295.9	234.9	200.5	185.3	179.4	176.6	176.4
27.5°	682.5	620.6	480.6	347.2	259.7	209.7	185.6	174.9	171.1	169.3	169.3
30°	694.1	620.6	454.9	313.9	229.7	191.2	174.2	166.9	164.2	163.0	163.0
32.5°	714.3	624.0	430.1	280.9	205.7	176.6	164.7	159.8	157.7	157.1	157.1
35°	749.1	635.6	405.8	249.6	186.4	164.7	155.6	152.8	151.3	151.1	151.6
37.5°	798.1	659.3	383.0	226.6	172.7	155.0	148.0	145.8	144.9	145.6	146.2
40°	859.7	691.4	362.4	205.7	162.3	147.3	141.0	139.5	139.1	140.1	141.0
42.5°	934.0	734.9	345.4	190.7	154.3	140.7	135.1	133.3	132.8	134.0	135.2
45°	1014.5	781.6	333.5	179.5	148.0	135.8	129.9	127.9	127.0	127.6	129.0
47.5°	1087.7	825.7	328.8	171.7	142.1	131.6	125.3	122.9	121.4	121.1	122.1
50°	1149.4	858.6	331.0	166.9	137.3	127.0	120.8	118.1	115.9	114.5	115.3
52.5°	1194.4	879.3	333.1	164.8	133.6	122.0	115.9	113.4	110.4	108.1	108.1
55°	1226.9	884.1	328.5	163.2	130.8	116.5	110.4	108.0	105.0	102.5	102.2
57.5°	1239.7	870.7	311.3	160.8	128.8	111.3	104.6	102.8	100.3	97.3	97.1
60°	1222.5	829.3	278.3	155.7	126.3	107.0	98.8	97.6	96.4	93.6	93.4
62.5°	1153.2	738.6	235.6	145.5	121.2	102.3	93.4	94.0	94.2	92.2	91.9
65°	1027.5	613.9	194.0	132.1	113.6	96.8	87.9	90.7	92.4	92.1	91.6
67.5°	844.8	477.8	164.4	118.0	103.7	89.3	82.0	85.2	86.6	87.6	87.3
70°	627.0	336.9	136.0	103.1	91.6	80.3	74.2	75.9	75.0	76.2	76.6
72.5°	349.6	202.2	110.8	88.2	79.1	69.9	65.6	65.3	63.4	63.4	63.4
74°	209.7	148.3	97.4	79.0	71.6	63.1	59.4	58.0	56.2	56.4	56.2
75°	168.7	127.5	89.4	72.9	66.2	59.1	55.3	53.6	52.2	52.2	52.1
77.5°	106.5	96.8	72.0	58.0	53.0	48.6	46.1	43.7	43.7	43.6	43.4
80°	80.5	77.1	56.1	43.9	40.6	37.3	35.7	34.7	34.7	35.1	35.0
82.5°	55.2	58.0	39.4	30.6	29.0	26.6	26.3	26.5	26.0	25.4	25.3
85°	40.3	43.6	26.6	19.3	17.7	16.2	17.4	18.0	17.3	15.9	15.3
87.5°	15.5	28.6	14.3	8.0	7.4	6.4	7.4	7.7	8.3	6.5	6.7
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)