

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: P348565

Luminaire Tested: **ARCH-N-PA1-40-827-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348565
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-40-827-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 740mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4113 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

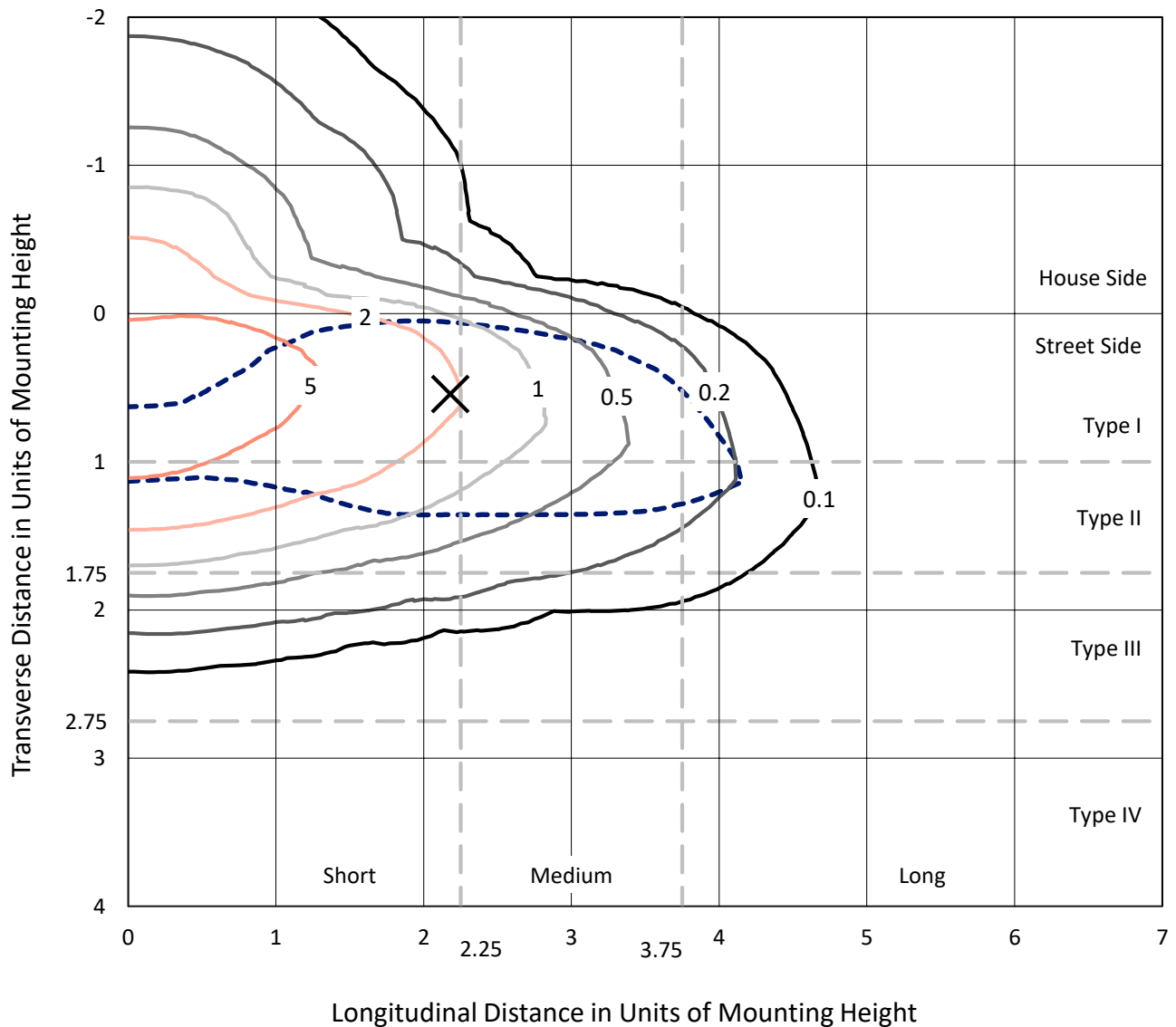
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

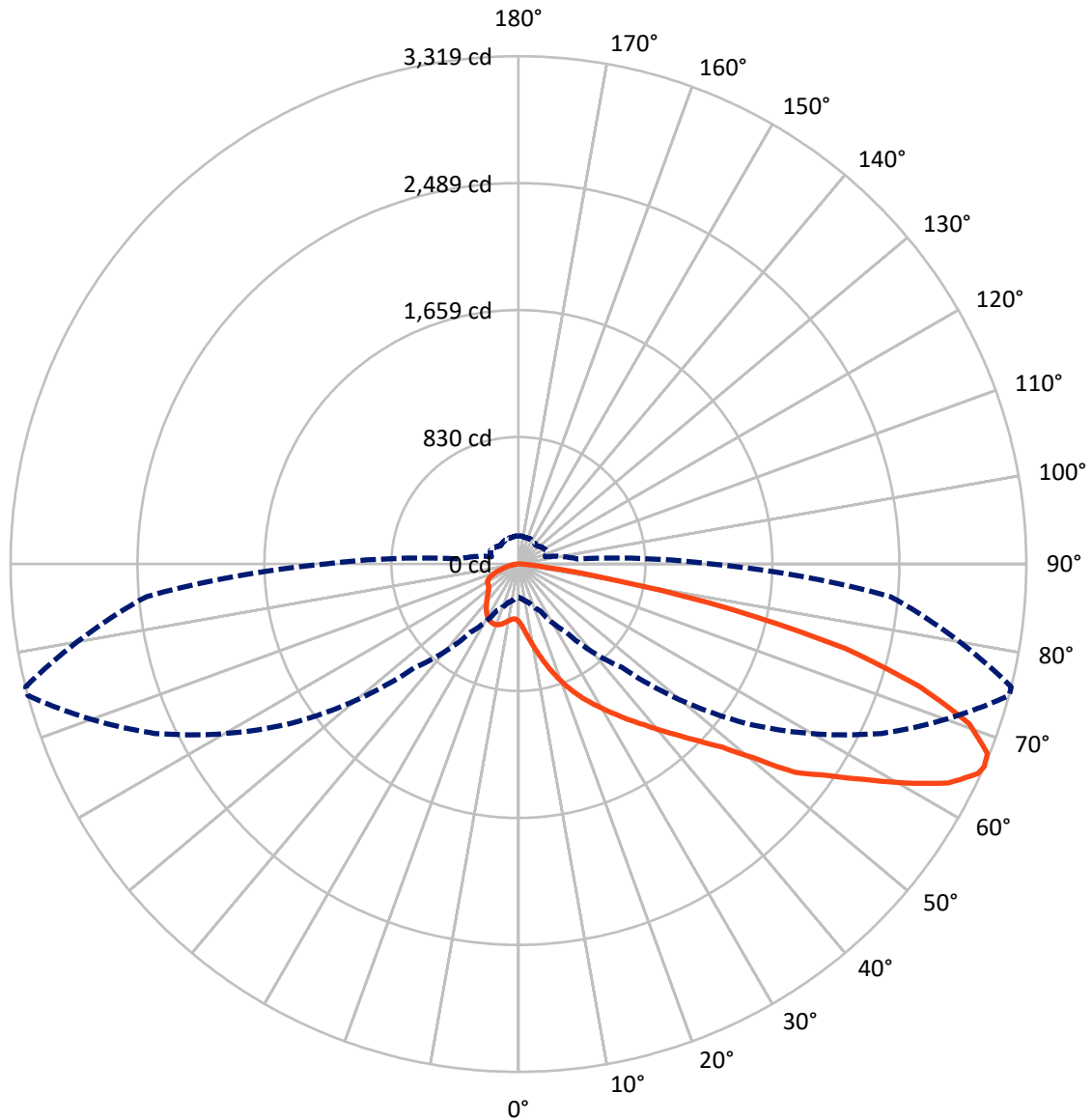
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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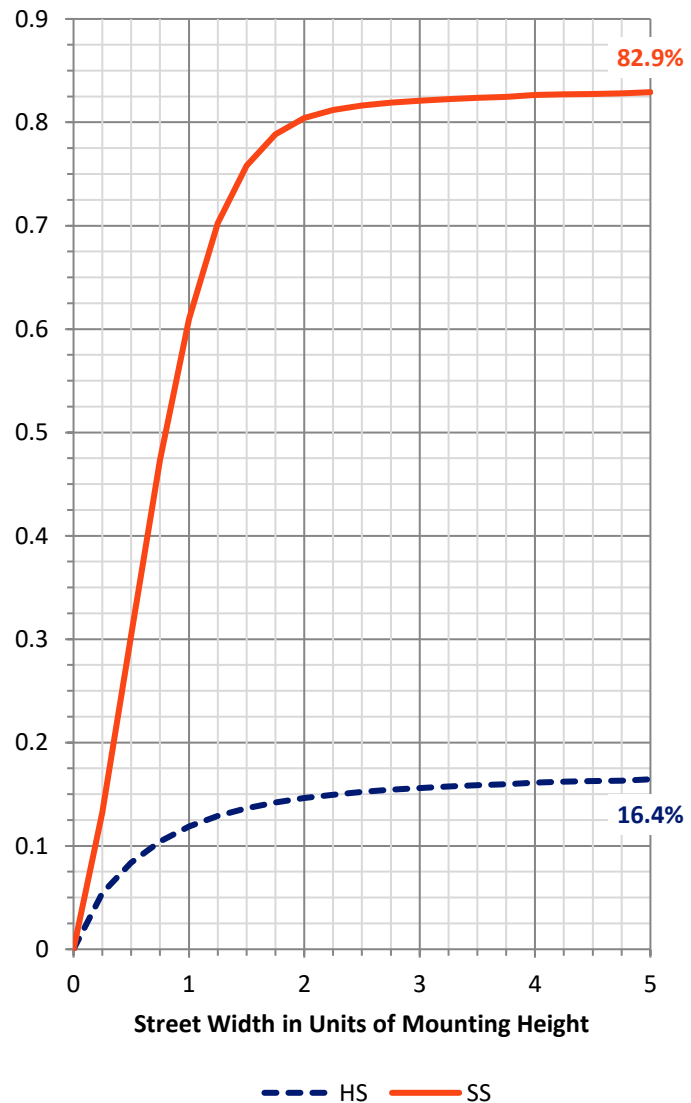
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	692.1	0.0	692.1
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	3420.9	0.0	3420.9
	% Fixture	83.2	0.0	83.2
Total	Lumens	4113.0	0.0	4113.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.4	1.1
10°-20°	179.4	4.4
20°-30°	348.6	8.5
30°-40°	568.9	13.8
40°-50°	777.3	18.9
50°-60°	905.4	22.0
60°-70°	811.7	19.7
70°-80°	410.2	10.0
80°-90°	66.2	1.6
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°	4113.0	100.0
0°-180°	4113.0	100.0



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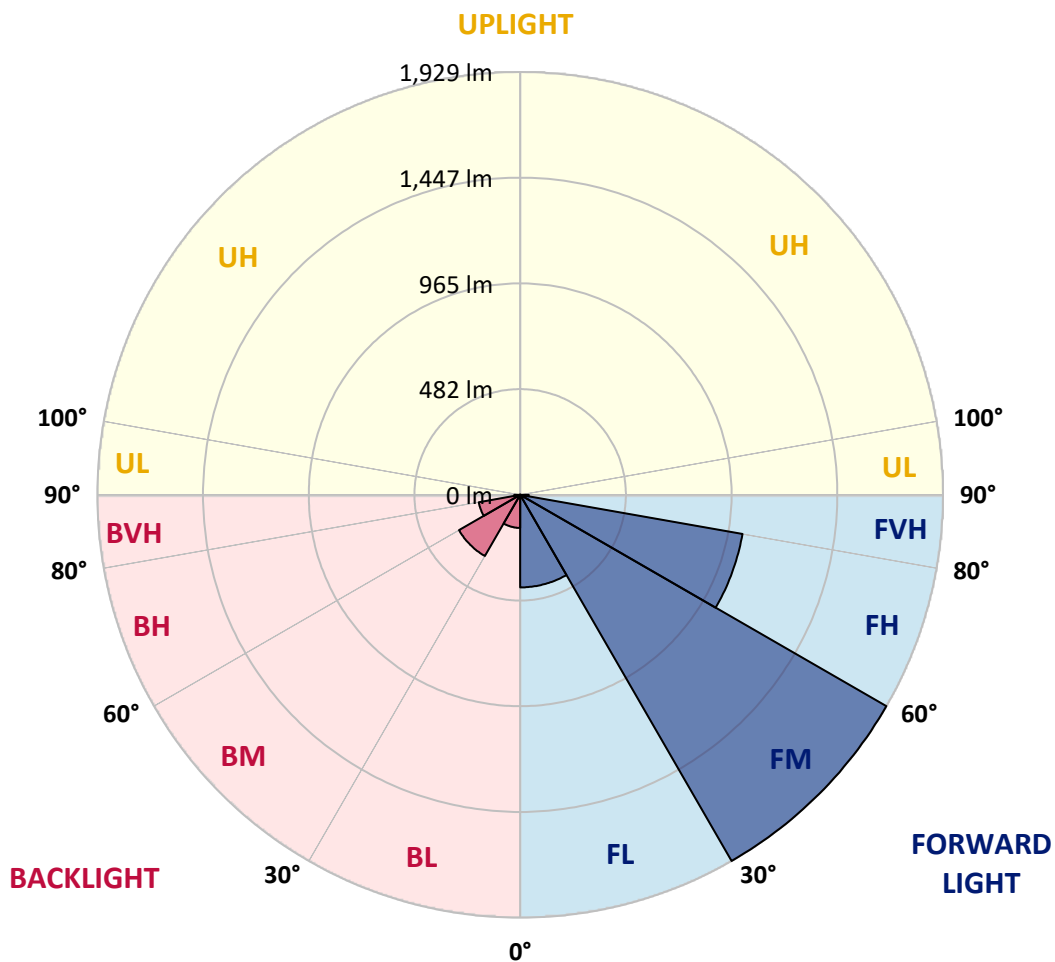
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	422.4	10.3			
FM (30°-60°)	1929.3	46.9			
FH (60°-80°)	1030.1	25.0			G1/1800
FVH (80°-90°)	39.1	1.0			G1/100
BL (0°-30°)	150.9	3.7	B1/500		
BM (30°-60°)	322.3	7.8	B1/1000		
BH (60°-80°)	191.7	4.7	B1/500		G1/500
BVH (80°-90°)	27.1	0.7			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	375.6	375.6	375.6	375.6	375.6	375.6	375.6	375.6	375.6	375.6	375.6
2.5°	498.6	491.1	490.4	479.4	476.8	455.8	440.3	424.1	405.6	402.0	387.5
5°	640.5	639.8	630.2	612.1	598.0	562.0	526.4	488.7	447.4	440.7	408.0
7.5°	768.1	767.0	759.6	740.2	719.8	675.5	624.7	566.9	499.9	490.0	435.8
10°	865.0	864.6	862.1	847.8	830.5	788.1	732.0	653.1	560.9	547.4	470.6
12.5°	939.9	940.7	942.4	937.3	929.1	892.9	835.4	744.4	626.0	612.6	509.2
15°	990.5	993.1	1001.7	1008.8	1013.2	991.0	935.3	837.8	698.9	682.8	552.1
17.5°	1016.1	1018.9	1033.8	1055.3	1075.2	1072.9	1028.7	926.9	768.8	753.3	598.2
20°	1038.2	1040.3	1057.0	1082.8	1117.9	1133.4	1108.5	1012.6	845.5	827.0	647.1
22.5°	1102.1	1104.8	1109.8	1124.5	1155.5	1183.9	1171.9	1093.7	915.7	898.5	693.4
25°	1225.5	1228.8	1217.9	1205.4	1211.3	1231.1	1233.4	1167.7	986.9	967.5	743.3
27.5°	1374.3	1378.9	1360.3	1328.3	1300.4	1292.7	1290.1	1228.3	1054.9	1032.4	792.6
30°	1519.9	1527.9	1503.7	1462.2	1411.0	1375.0	1348.3	1287.7	1121.9	1100.4	839.0
32.5°	1662.2	1659.0	1623.9	1583.4	1523.4	1478.3	1413.8	1351.4	1197.3	1172.6	885.3
35°	1759.6	1760.8	1728.2	1680.2	1622.9	1588.3	1501.5	1420.1	1274.3	1251.5	937.8
37.5°	1842.6	1837.4	1800.6	1755.7	1706.4	1691.6	1604.1	1495.7	1357.6	1332.8	993.6
40°	1870.2	1864.2	1840.1	1807.8	1768.3	1767.0	1717.3	1581.5	1451.9	1427.3	1056.6
42.5°	1853.5	1845.8	1835.9	1827.1	1814.9	1820.5	1823.7	1682.0	1555.5	1528.0	1129.5
45°	1791.6	1780.0	1787.0	1806.1	1832.5	1864.1	1919.8	1793.3	1671.5	1648.5	1215.1
47.5°	1696.5	1686.1	1707.8	1748.7	1820.5	1900.4	2010.7	1916.2	1810.0	1787.1	1337.0
50°	1562.8	1565.8	1597.0	1671.4	1779.9	1917.1	2122.7	2078.8	2011.4	1990.0	1503.3
52.5°	1343.3	1343.8	1431.5	1553.7	1707.8	1908.5	2184.8	2286.8	2286.3	2260.5	1661.6
55°	1139.4	1151.8	1221.2	1383.6	1591.1	1873.9	2228.2	2387.8	2466.9	2436.6	1809.2
57.5°	940.3	947.5	1013.3	1176.4	1424.5	1781.6	2272.8	2509.2	2674.9	2655.8	1992.7
60°	713.8	725.0	793.0	943.6	1211.4	1617.8	2277.0	2635.8	2923.6	2904.3	2197.5
62.5°	463.3	482.6	546.2	687.4	953.7	1382.2	2179.8	2718.6	3159.3	3152.5	2379.3
65°	266.3	280.8	325.1	434.0	657.9	1086.5	1948.7	2686.8	3304.4	3300.5	2447.3
66°	217.5	226.6	260.6	339.2	542.9	954.1	1814.4	2619.6	3318.8	3318.9	2439.5
67.5°	174.0	178.0	193.3	242.8	400.6	756.2	1574.3	2471.5	3300.9	3305.8	2389.1
70°	144.0	146.1	150.8	162.8	218.7	456.0	1117.5	2086.5	3121.5	3125.2	2192.4
72.5°	129.2	130.4	132.2	133.9	154.3	254.8	682.5	1669.2	2736.8	2741.7	1892.6
75°	117.0	117.7	117.4	117.6	129.4	162.4	352.7	1246.2	2212.9	2203.1	1449.8
77.5°	102.8	103.5	102.1	102.4	114.5	124.8	175.5	872.4	1493.4	1424.4	816.8
80°	86.9	87.4	86.9	87.8	99.7	94.3	102.1	490.8	660.3	624.6	290.4
82.5°	65.6	68.0	69.7	73.6	82.1	67.0	68.3	191.2	201.1	191.4	89.1
85°	28.8	35.0	52.5	56.3	61.7	40.2	44.8	77.9	81.8	79.3	32.4
87.5°	7.5	8.2	26.0	32.7	34.2	18.2	23.3	35.5	37.4	35.5	10.8
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°	375.6	375.6	375.6	375.6	375.6	375.6	375.6	375.6	375.6	375.6	375.6
2.5°	379.8	373.0	360.7	349.8	341.5	336.0	330.4	327.6	325.9	324.2	324.5
5°	391.9	378.1	357.0	342.1	333.7	328.4	325.6	324.5	323.8	322.1	322.1
7.5°	410.2	390.7	361.6	346.3	339.7	335.7	334.0	333.4	332.6	330.6	330.9
10°	433.3	405.9	371.3	356.3	350.3	345.9	343.5	342.7	341.1	338.9	339.2
12.5°	460.4	424.8	384.0	368.3	361.1	355.1	351.2	348.8	346.1	343.2	343.4
15°	490.0	445.3	397.7	379.1	369.2	360.8	354.5	350.5	346.3	342.7	342.5
17.5°	520.0	465.1	408.1	385.0	371.6	360.5	352.0	345.7	340.6	336.1	335.7
20°	552.4	483.0	414.0	384.4	367.1	354.0	342.7	334.8	329.1	324.6	323.9
22.5°	585.3	499.7	415.0	378.7	357.2	341.1	329.3	320.6	314.7	310.1	308.4
25°	615.5	512.7	410.9	367.7	343.4	326.0	314.5	305.7	300.9	295.5	293.8
27.5°	643.0	521.8	402.8	353.5	327.9	310.8	299.9	292.4	287.2	283.0	281.6
30°	667.7	526.7	389.6	336.8	311.9	296.4	287.2	282.1	277.6	272.3	271.3
32.5°	691.2	526.7	372.5	318.5	296.2	283.7	278.3	275.1	270.0	264.9	263.5
35°	714.6	523.5	352.4	299.4	281.6	274.7	274.4	270.6	262.9	255.9	254.1
37.5°	739.4	516.9	329.8	281.5	269.8	270.6	273.0	264.6	253.7	243.8	241.1
40°	767.3	507.8	306.4	266.0	259.9	268.8	269.2	255.9	234.7	225.6	223.3
42.5°	800.1	498.8	284.6	252.3	252.0	263.3	262.1	237.2	224.5	219.9	218.7
45°	843.2	493.6	263.9	239.3	245.9	254.5	249.9	226.9	221.6	218.9	217.8
47.5°	911.2	496.3	244.9	229.0	239.7	245.8	227.3	222.7	218.9	215.7	214.6
50°	996.4	494.7	229.6	221.9	232.8	236.5	217.1	217.3	215.3	211.7	210.0
52.5°	1060.5	482.7	219.6	217.8	226.6	220.2	210.7	212.0	211.0	205.7	203.9
55°	1122.4	472.4	214.6	216.3	222.2	199.8	203.2	206.2	205.3	200.1	199.3
57.5°	1199.3	470.4	211.5	216.7	218.4	189.6	195.9	200.0	199.3	197.0	196.6
60°	1293.5	471.0	208.7	217.4	214.2	182.1	189.1	194.2	194.6	194.2	193.9
62.5°	1345.4	455.8	201.8	215.5	206.8	175.5	181.9	189.5	189.6	190.5	190.3
65°	1301.4	410.2	188.8	208.6	194.4	170.1	175.8	184.0	181.9	185.7	185.7
66°	1258.6	384.0	182.4	204.1	189.1	168.0	173.8	181.2	178.6	183.8	183.8
67.5°	1171.4	339.7	170.8	194.6	181.5	165.0	171.6	176.6	173.0	180.7	180.1
70°	1011.9	262.8	147.5	173.1	169.1	160.7	168.5	167.4	162.1	173.8	171.6
72.5°	853.2	199.7	118.4	144.9	150.2	155.3	164.2	155.7	149.0	157.2	152.3
75°	662.0	150.1	93.6	112.7	126.9	146.8	159.0	142.1	132.5	131.7	129.0
77.5°	357.9	103.0	74.1	86.0	100.8	136.1	155.5	127.6	113.1	109.8	107.7
80°	141.7	67.0	53.9	65.2	70.5	120.8	147.2	110.7	93.3	89.9	86.7
82.5°	58.5	39.7	34.8	43.7	45.9	103.3	132.1	90.8	72.1	99.7	105.8
85°	25.1	21.8	20.7	22.6	26.0	72.5	105.1	69.3	77.8	69.4	55.2
87.5°	7.5	9.2	8.8	8.7	9.5	17.3	56.0	38.5	57.1	21.6	16.2
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)