

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: P348622

Luminaire Tested: **ARCH-N-PA1-50-827-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348622
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 (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-50-827-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 980mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4987 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 52
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

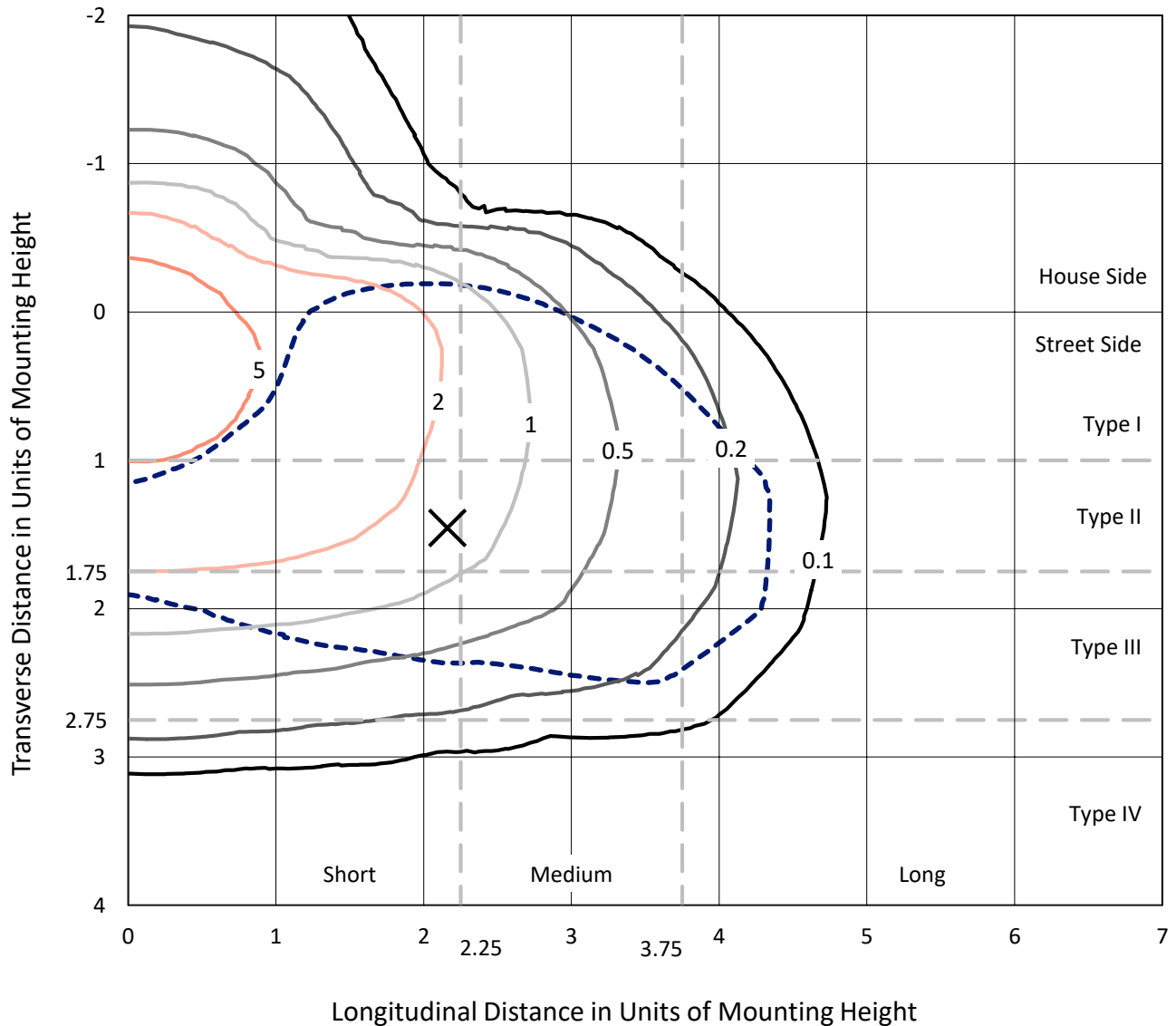


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

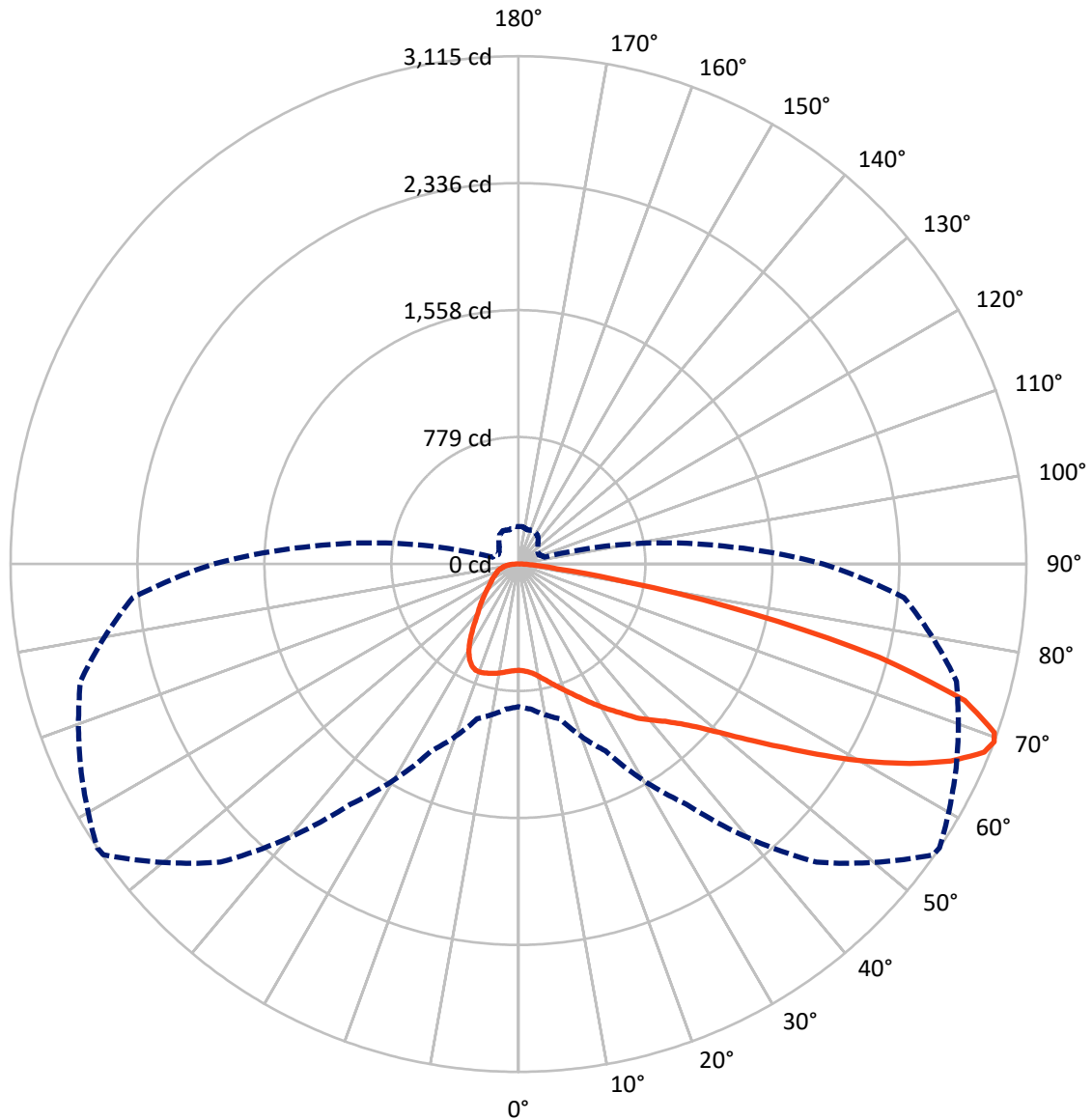


Based on 10 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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



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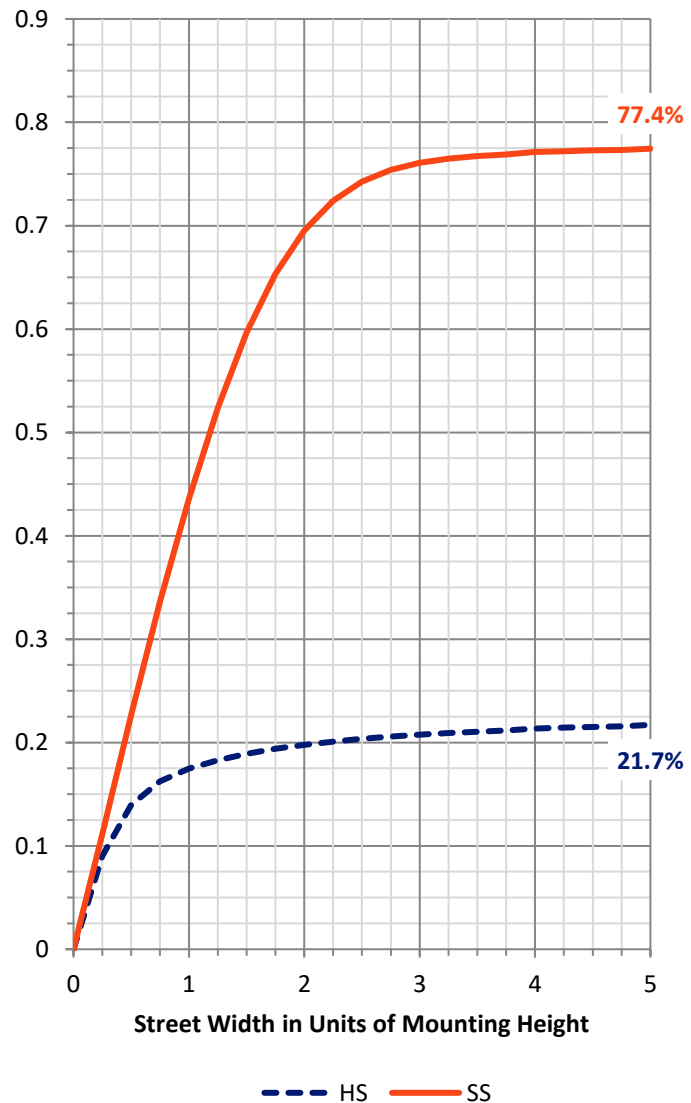
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1110.6	0.0	1110.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	3876.4	0.0	3876.4
	% Fixture	77.7	0.0	77.7
Total	Lumens	4987.0	0.0	4987.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.0	1.3
10°-20°	205.9	4.1
20°-30°	359.4	7.2
30°-40°	516.3	10.4
40°-50°	714.6	14.3
50°-60°	1046.9	21.0
60°-70°	1276.4	25.6
70°-80°	705.7	14.2
80°-90°	97.7	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°	4987.0	100.0
0°-180°	4987.0	100.0



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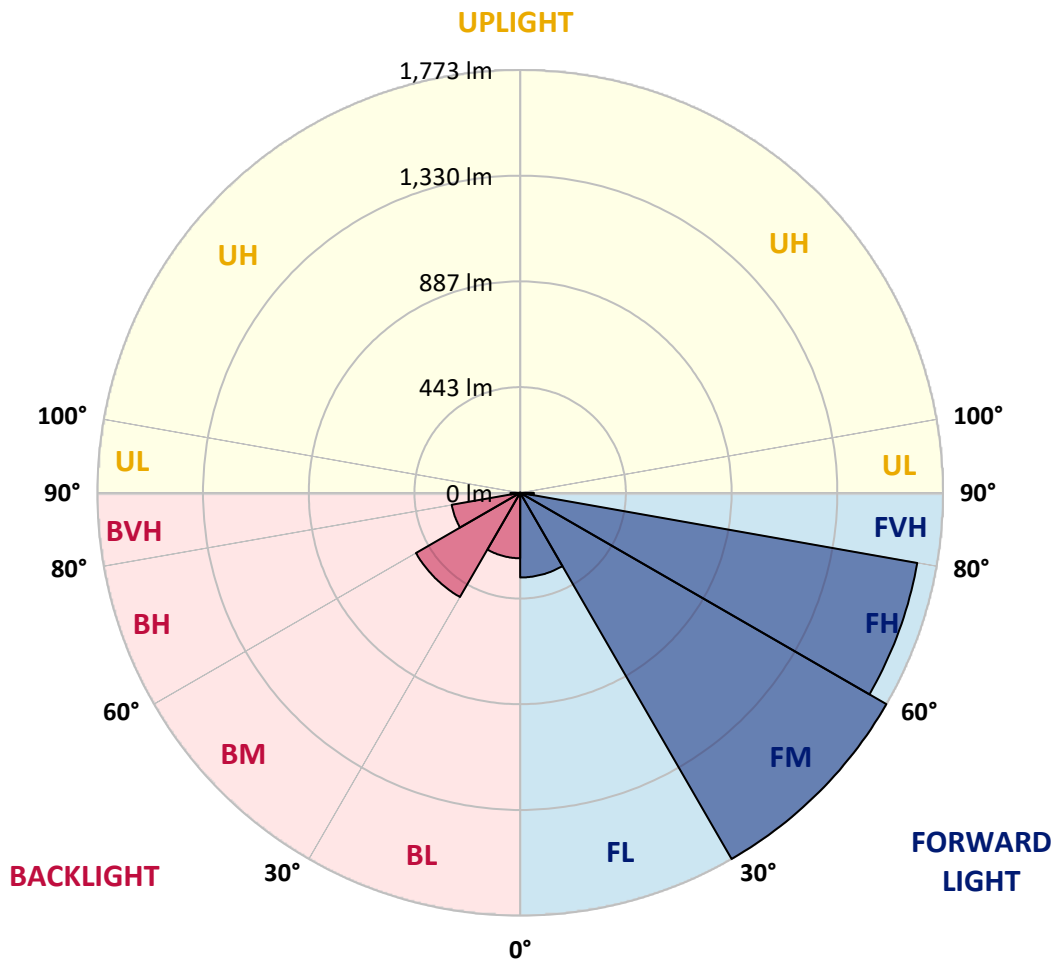
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	354.9	7.1			
FM	(30°-60°)	1773.1	35.6			
FH	(60°-80°)	1690.8	33.9			G1/1800
FVH	(80°-90°)	57.6	1.2			G1/100
BL	(0°-30°)	274.5	5.5	B1/500		
BM	(30°-60°)	504.7	10.1	B1/1000		
BH	(60°-80°)	291.2	5.8	B1/500		G1/500
BVH	(80°-90°)	40.2	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°	652.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0
2.5°	656.1	656.8	656.3	657.6	656.1	657.1	656.3	656.3	655.8	654.2	652.5
5°	666.4	667.8	666.9	668.3	666.4	666.7	665.2	665.2	663.7	660.4	657.0
7.5°	682.6	684.1	683.4	684.8	682.2	682.2	680.2	680.0	676.9	671.6	667.6
10°	701.8	703.9	703.2	705.2	703.2	703.9	701.8	701.8	697.7	690.1	685.1
12.5°	729.8	732.4	730.5	730.3	729.5	730.8	729.1	728.8	725.0	714.7	707.8
15°	767.3	770.0	766.0	765.7	760.9	760.4	760.4	759.9	757.5	745.1	733.8
17.5°	810.4	811.2	807.8	802.3	796.1	792.2	791.6	793.0	793.0	778.6	760.6
20°	852.6	854.2	851.4	845.2	837.3	831.5	827.4	830.1	830.0	812.8	787.2
22.5°	898.7	902.3	898.2	890.3	881.0	874.5	867.2	869.6	869.8	848.7	813.3
25°	958.3	955.0	952.5	941.3	928.1	921.4	914.7	917.1	916.4	887.3	840.3
27.5°	1011.0	1011.7	1008.3	996.4	981.1	966.4	966.0	967.6	965.0	927.5	865.7
30°	1072.4	1072.7	1067.9	1057.2	1040.6	1021.5	1017.0	1019.6	1014.1	965.7	892.5
32.5°	1133.4	1135.1	1129.7	1116.9	1103.5	1080.3	1071.3	1073.1	1059.3	1004.7	920.2
35°	1186.8	1189.2	1187.5	1178.9	1164.3	1144.3	1133.7	1132.7	1115.7	1052.4	956.7
37.5°	1241.2	1243.5	1241.6	1234.4	1228.5	1207.4	1201.7	1201.7	1172.2	1101.2	1003.3
40°	1297.3	1300.7	1298.5	1288.5	1283.5	1273.9	1260.3	1257.0	1225.1	1159.8	1079.2
42.5°	1349.3	1353.8	1362.7	1356.9	1346.7	1348.1	1320.8	1319.1	1295.7	1246.4	1174.6
45°	1423.2	1429.7	1444.8	1440.4	1438.3	1430.7	1398.3	1396.7	1387.8	1362.9	1293.0
47.5°	1503.8	1512.7	1540.0	1540.9	1563.0	1548.8	1504.6	1499.3	1501.3	1502.4	1437.4
50°	1578.0	1587.8	1632.6	1653.7	1706.0	1709.1	1638.4	1633.6	1641.7	1665.4	1605.8
52.5°	1637.2	1649.6	1705.6	1770.9	1860.4	1885.8	1803.2	1799.6	1805.6	1846.5	1796.2
55°	1680.7	1694.1	1755.1	1874.0	2016.9	2061.8	1992.9	1989.4	1993.2	2045.3	2003.2
57.5°	1690.8	1694.1	1782.6	1943.4	2149.0	2256.7	2225.0	2218.1	2199.5	2244.9	2231.7
60°	1643.3	1656.3	1759.9	1967.8	2251.2	2449.0	2467.5	2459.0	2406.9	2444.0	2433.4
62.5°	1546.7	1570.1	1675.2	1930.7	2291.3	2606.0	2705.5	2695.2	2605.5	2629.5	2578.4
65°	1389.0	1399.0	1509.4	1802.7	2240.4	2706.5	2917.7	2912.5	2799.6	2762.0	2605.2
67.5°	1106.9	1125.6	1219.4	1535.2	2032.4	2694.7	3081.7	3081.2	2926.4	2811.1	2510.1
69°	874.5	893.9	983.2	1264.6	1798.4	2586.3	3109.2	3115.2	2962.1	2781.2	2374.4
70°	697.2	719.7	781.0	1065.2	1590.7	2443.3	3086.4	3097.2	2955.3	2731.9	2249.2
72.5°	296.7	314.9	358.5	549.1	969.5	1824.5	2822.0	2862.8	2796.0	2500.4	1858.9
75°	129.5	135.2	155.0	223.9	430.4	993.0	2210.7	2286.3	2390.7	2113.5	1384.7
77.5°	94.8	97.2	108.1	131.4	193.1	375.0	1421.6	1465.6	1724.2	1537.9	849.4
80°	73.4	75.1	83.5	96.6	126.1	151.7	648.4	686.2	969.5	789.9	353.7
82.5°	58.4	59.6	65.5	71.1	87.1	91.9	215.3	238.8	357.9	218.2	93.6
85°	54.3	55.7	57.7	51.9	55.8	53.9	93.1	97.4	108.1	85.7	39.2
87.5°	24.6	29.0	57.2	40.4	29.7	23.7	38.1	39.9	44.8	45.0	17.4
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°	652.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0	652.0
2.5°	653.5	653.0	653.9	651.8	654.4	654.2	653.3	653.7	655.4	655.2	655.4
5°	657.5	657.1	658.2	656.6	659.7	660.7	660.9	662.5	664.3	664.9	664.9
7.5°	667.4	667.4	668.0	665.9	668.0	667.8	666.9	668.5	670.4	670.5	670.4
10°	684.6	684.8	683.9	678.6	676.9	672.2	668.0	668.1	670.5	672.4	672.9
12.5°	706.3	705.6	701.8	692.0	684.8	675.3	670.9	670.7	673.1	674.7	675.2
15°	731.0	729.1	719.3	703.3	690.6	681.4	674.1	672.4	671.0	669.3	669.5
17.5°	754.4	750.1	733.8	711.6	698.2	685.8	671.9	660.7	653.0	648.5	647.2
20°	778.1	769.7	746.1	719.3	702.3	679.8	653.0	630.3	616.2	609.7	608.5
22.5°	799.7	786.1	757.6	727.4	699.0	659.5	617.4	584.5	564.9	556.1	556.8
25°	820.9	802.0	769.7	733.1	682.6	623.8	568.0	527.4	504.7	495.0	494.6
27.5°	839.4	817.9	782.7	728.4	651.8	572.9	509.4	469.9	451.0	442.6	441.2
30°	860.7	838.0	800.1	710.7	606.8	514.2	452.2	424.3	410.9	402.5	401.0
32.5°	886.7	865.3	814.3	678.6	549.2	452.9	407.5	388.1	375.9	366.4	364.7
35°	924.4	901.4	817.9	632.6	486.0	404.4	374.7	354.8	338.3	326.1	324.9
37.5°	971.9	946.6	809.7	572.9	424.7	373.0	347.4	322.8	301.3	284.2	281.4
40°	1040.2	1002.1	786.8	504.2	379.5	348.8	320.7	292.7	266.1	246.0	242.1
42.5°	1122.4	1067.2	751.8	435.9	346.3	324.2	294.3	259.6	234.2	219.9	217.8
45°	1226.8	1134.9	703.2	376.1	313.7	299.6	265.8	233.8	218.0	207.5	205.8
47.5°	1346.0	1210.8	652.1	327.4	286.0	276.6	242.9	222.3	209.8	201.5	200.0
50°	1492.6	1296.6	598.0	287.6	258.2	248.9	232.1	216.0	206.0	199.6	198.1
52.5°	1657.9	1393.3	559.0	256.2	235.2	228.5	226.4	212.5	204.4	199.6	198.1
55°	1835.8	1491.7	516.9	229.7	215.3	217.2	222.7	212.9	207.4	201.5	199.3
57.5°	2014.0	1593.4	470.0	207.4	199.5	208.7	220.1	213.5	208.9	203.2	201.2
60°	2154.9	1657.9	397.4	188.6	186.9	199.5	213.9	208.4	202.4	202.6	202.2
62.5°	2220.7	1654.4	317.1	172.0	174.4	186.9	203.9	200.3	195.3	202.0	202.6
65°	2183.7	1572.0	246.9	156.9	161.0	173.9	193.6	196.4	198.1	211.0	212.7
67.5°	2028.8	1411.5	191.2	143.6	148.8	164.9	194.6	213.9	216.1	229.7	229.5
69°	1868.5	1261.0	166.1	136.8	142.8	167.2	208.0	225.1	216.6	231.1	229.0
70°	1734.1	1141.9	152.7	132.1	140.0	171.1	217.0	224.9	214.1	226.4	223.0
72.5°	1335.6	821.5	129.5	123.5	130.7	163.7	219.6	219.9	208.0	210.5	204.6
75°	916.0	519.2	113.0	111.8	116.7	147.6	211.3	210.1	192.4	189.0	184.2
77.5°	505.1	263.7	96.0	100.7	103.9	130.7	192.1	190.4	175.7	168.5	166.8
80°	194.8	115.4	81.1	89.5	91.6	113.2	168.4	166.8	154.6	145.3	142.8
82.5°	73.5	60.5	67.0	77.5	76.8	93.5	142.6	141.7	129.9	116.3	112.2
85°	34.0	36.2	53.1	63.9	58.9	69.2	114.1	115.6	101.2	85.0	85.0
87.5°	14.4	20.3	37.6	48.3	39.7	46.7	83.7	79.9	73.4	50.9	47.8
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)