

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: P348564

Luminaire Tested: **ARCH-N-PA1-30-827-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348564
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-PA1-30-827-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 560mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3256 lumens
Efficiency: N/A
Efficacy: 105.0 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): 31
Input Voltage (V): NR
Input Current (A_{in}): 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

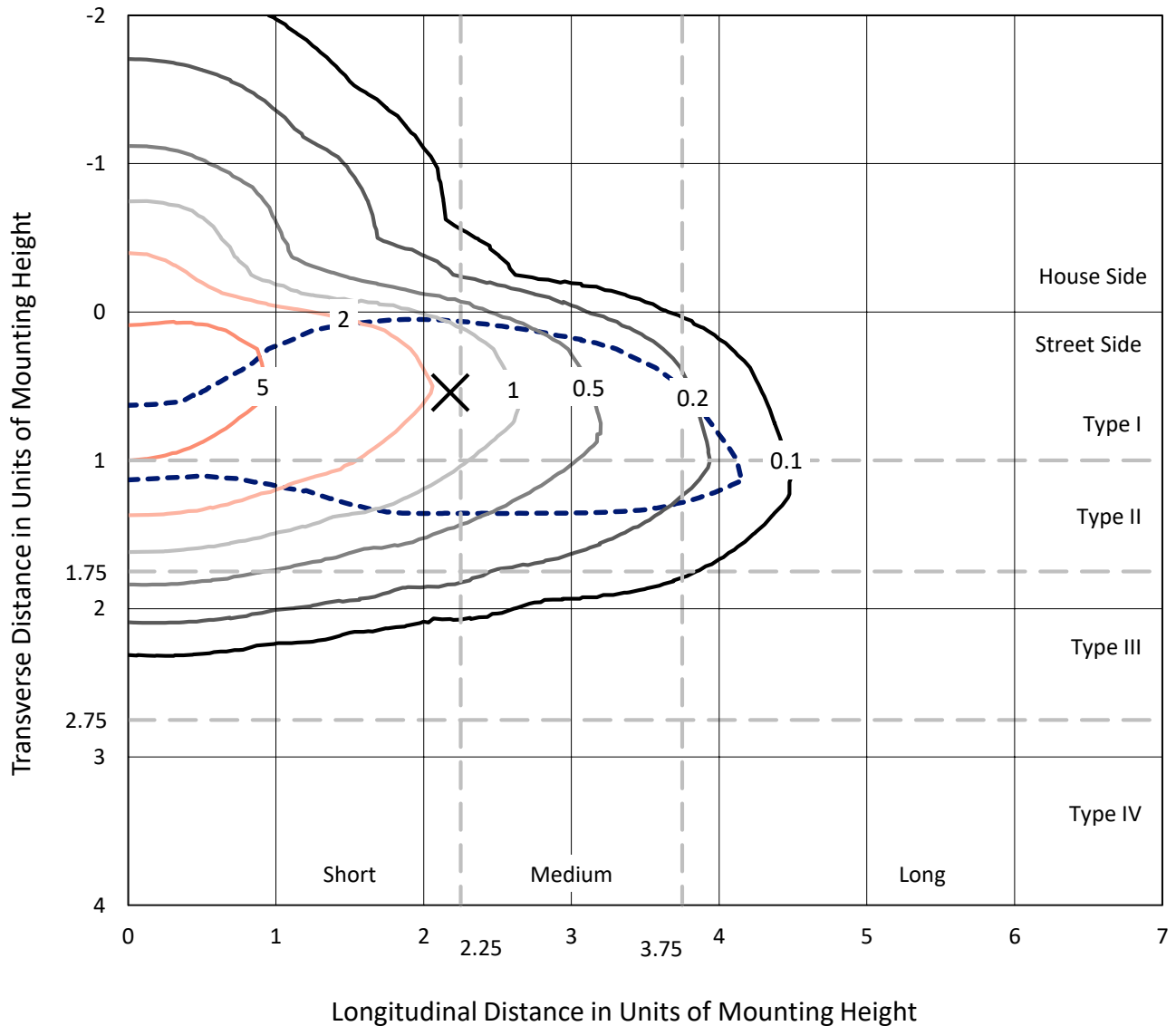


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

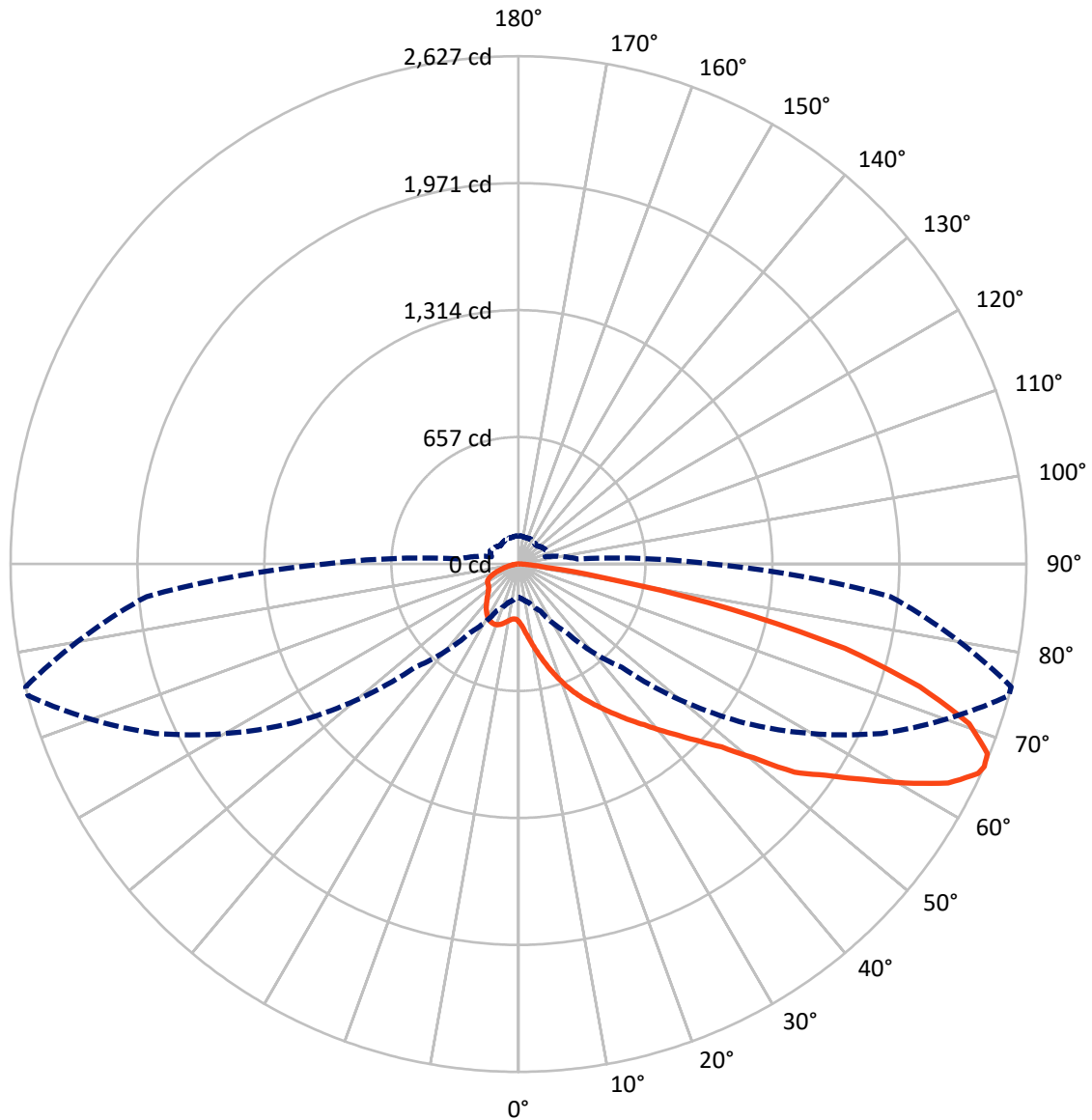


Based on 10 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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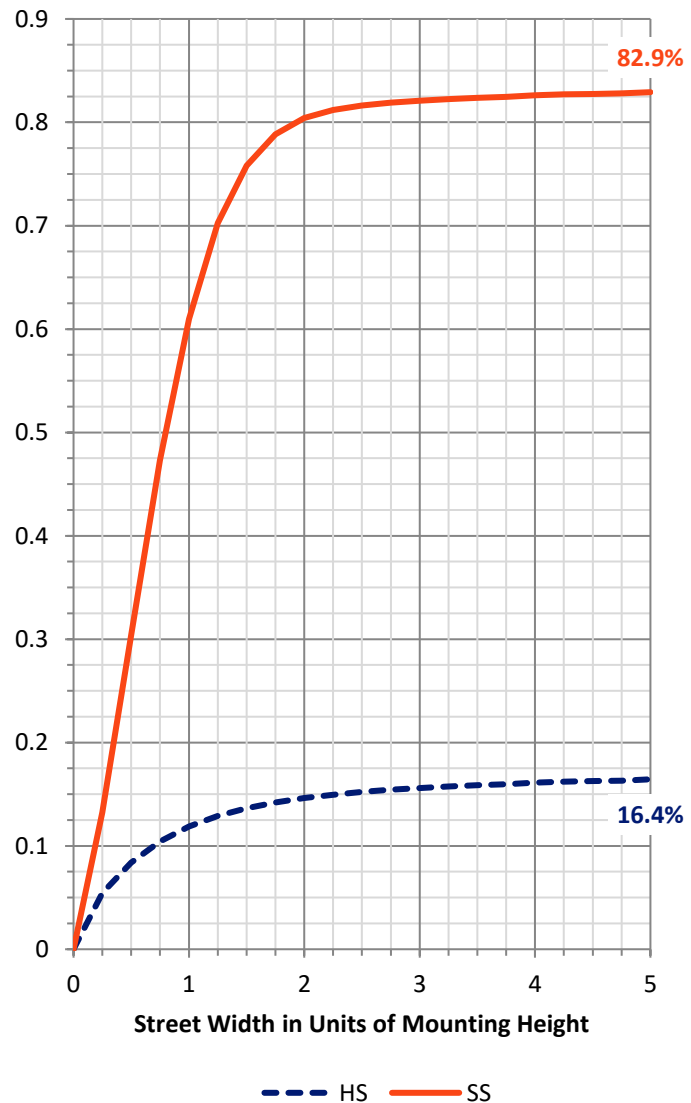
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	547.9	0.0	547.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	2708.1	0.0	2708.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	3256.0	0.0	3256.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.0	1.1
10°-20°	142.0	4.4
20°-30°	275.9	8.5
30°-40°	450.4	13.8
40°-50°	615.3	18.9
50°-60°	716.7	22.0
60°-70°	642.6	19.7
70°-80°	324.7	10.0
80°-90°	52.4	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°	3256.0	100.0
0°-180°	3256.0	100.0



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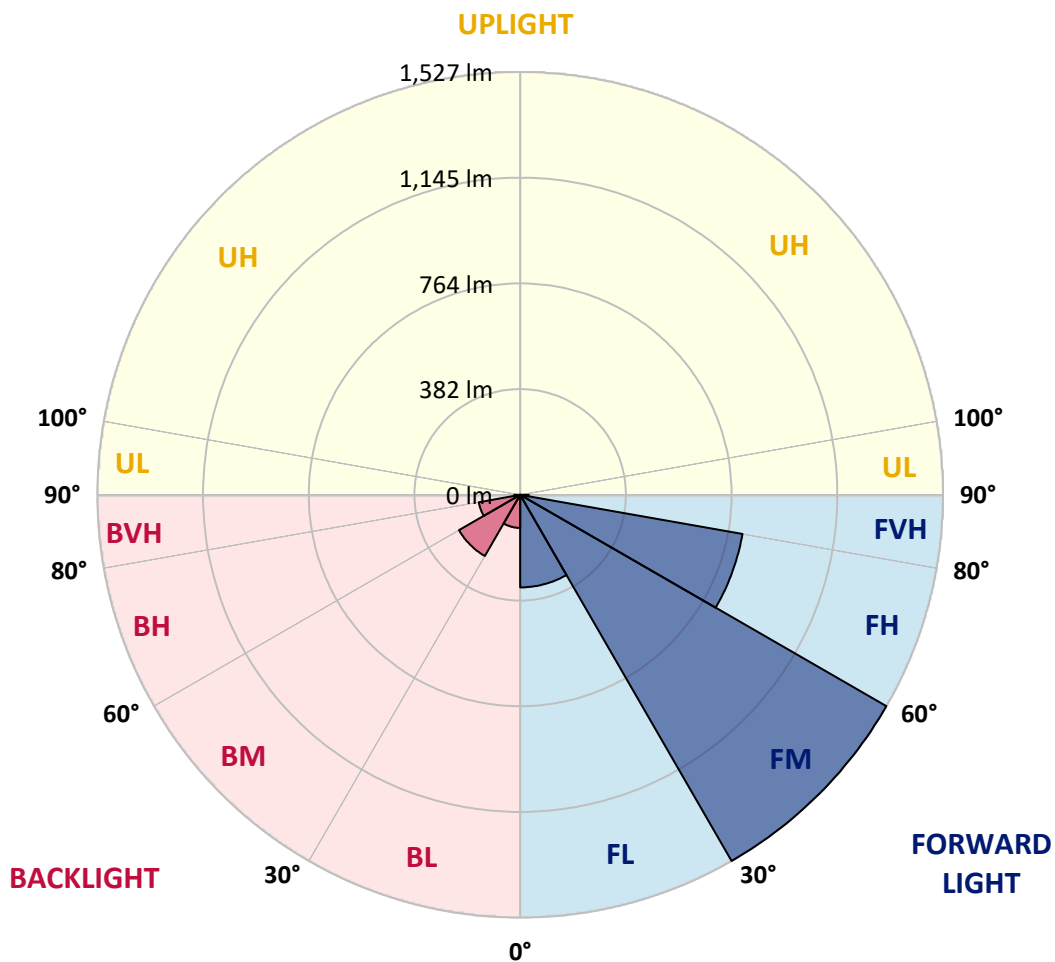
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	334.4	10.3			
FM	(30°-60°)	1527.3	46.9			
FH	(60°-80°)	815.5	25.0			G1/1800
FVH	(80°-90°)	31.0	1.0			G1/100
BL	(0°-30°)	119.5	3.7	B1/500		
BM	(30°-60°)	255.1	7.8	B1/1000		
BH	(60°-80°)	151.8	4.7	B1/500		G1/500
BVH	(80°-90°)	21.5	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°	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3
2.5°	394.7	388.8	388.2	379.5	377.5	360.8	348.5	335.7	321.1	318.2	306.7
5°	507.0	506.5	498.9	484.6	473.4	444.9	416.7	386.9	354.2	348.9	323.0
7.5°	608.1	607.2	601.3	586.0	569.8	534.8	494.5	448.8	395.7	387.9	345.0
10°	684.8	684.4	682.5	671.2	657.5	623.9	579.4	517.0	444.0	433.3	372.5
12.5°	744.0	744.7	746.0	742.0	735.5	706.9	661.3	589.3	495.5	484.9	403.1
15°	784.2	786.1	793.0	798.6	802.1	784.5	740.4	663.2	553.2	540.5	437.1
17.5°	804.4	806.6	818.4	835.4	851.1	849.4	814.3	733.7	608.6	596.4	473.5
20°	821.8	823.5	836.8	857.2	885.0	897.2	877.6	801.6	669.3	654.7	512.2
22.5°	872.5	874.6	878.6	890.2	914.7	937.2	927.7	865.8	724.9	711.3	548.9
25°	970.2	972.7	964.1	954.3	958.9	974.6	976.4	924.4	781.3	765.9	588.4
27.5°	1087.9	1091.6	1076.9	1051.5	1029.4	1023.4	1021.3	972.4	835.1	817.3	627.4
30°	1203.2	1209.5	1190.4	1157.6	1117.0	1088.5	1067.4	1019.4	888.2	871.1	664.2
32.5°	1315.8	1313.3	1285.6	1253.5	1206.0	1170.3	1119.2	1069.8	947.9	928.3	700.8
35°	1393.0	1393.9	1368.1	1330.1	1284.8	1257.4	1188.6	1124.2	1008.8	990.7	742.4
37.5°	1458.7	1454.6	1425.4	1389.9	1350.9	1339.2	1269.9	1184.1	1074.8	1055.1	786.6
40°	1480.5	1475.8	1456.7	1431.1	1399.8	1398.9	1359.5	1251.9	1149.4	1129.9	836.4
42.5°	1467.3	1461.2	1453.3	1446.4	1436.8	1441.2	1443.7	1331.5	1231.4	1209.6	894.1
45°	1418.3	1409.1	1414.7	1429.8	1450.7	1475.7	1519.8	1419.6	1323.2	1305.0	961.9
47.5°	1343.0	1334.7	1352.0	1384.4	1441.2	1504.4	1591.7	1516.9	1432.9	1414.8	1058.4
50°	1237.1	1239.6	1264.2	1323.1	1409.0	1517.7	1680.4	1645.7	1592.3	1575.4	1190.0
52.5°	1063.4	1063.8	1133.2	1230.0	1352.0	1510.8	1729.6	1810.3	1809.9	1789.5	1315.4
55°	902.0	911.8	966.8	1095.3	1259.6	1483.4	1764.0	1890.3	1952.9	1928.9	1432.2
57.5°	744.4	750.1	802.2	931.3	1127.7	1410.3	1799.2	1986.4	2117.6	2102.4	1577.5
60°	565.1	573.9	627.7	747.0	959.0	1280.7	1802.5	2086.6	2314.4	2299.2	1739.6
62.5°	366.8	382.0	432.4	544.2	755.0	1094.2	1725.6	2152.2	2501.0	2495.6	1883.6
65°	210.8	222.3	257.3	343.6	520.9	860.1	1542.7	2127.0	2615.9	2612.8	1937.4
66°	172.2	179.4	206.3	268.5	429.8	755.3	1436.3	2073.8	2627.3	2627.4	1931.2
67.5°	137.7	140.9	153.0	192.2	317.1	598.7	1246.3	1956.5	2613.1	2617.0	1891.3
70°	114.0	115.6	119.4	128.9	173.1	361.0	884.6	1651.8	2471.1	2474.1	1735.6
72.5°	102.2	103.2	104.7	106.0	122.1	201.7	540.3	1321.4	2166.5	2170.4	1498.2
75°	92.6	93.2	93.0	93.1	102.5	128.6	279.2	986.5	1751.8	1744.1	1147.7
77.5°	81.4	81.9	80.8	81.0	90.6	98.8	138.9	690.6	1182.2	1127.6	646.6
80°	68.8	69.2	68.8	69.5	78.9	74.6	80.8	388.5	522.7	494.4	229.9
82.5°	52.0	53.8	55.2	58.3	65.0	53.1	54.1	151.3	159.2	151.5	70.5
85°	22.8	27.7	41.6	44.5	48.9	31.8	35.5	61.7	64.8	62.8	25.6
87.5°	6.0	6.5	20.6	25.9	27.1	14.4	18.5	28.1	29.6	28.1	8.5
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°	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3
2.5°	300.7	295.2	285.5	276.9	270.4	266.0	261.5	259.3	258.0	256.7	256.9
5°	310.3	299.3	282.6	270.8	264.2	260.0	257.8	256.9	256.3	255.0	255.0
7.5°	324.8	309.3	286.3	274.1	268.9	265.7	264.4	264.0	263.3	261.8	262.0
10°	343.0	321.3	293.9	282.1	277.3	273.8	271.9	271.3	270.0	268.3	268.5
12.5°	364.4	336.3	304.0	291.6	285.9	281.1	278.0	276.1	274.0	271.7	271.8
15°	387.9	352.5	314.8	300.1	292.3	285.6	280.7	277.4	274.1	271.3	271.1
17.5°	411.6	368.2	323.1	304.8	294.1	285.4	278.7	273.7	269.6	266.1	265.7
20°	437.3	382.3	327.7	304.3	290.6	280.2	271.3	265.1	260.5	257.0	256.4
22.5°	463.4	395.6	328.5	299.8	282.8	270.0	260.6	253.8	249.2	245.5	244.2
25°	487.2	405.9	325.3	291.0	271.8	258.1	248.9	242.0	238.2	233.9	232.6
27.5°	509.0	413.1	318.9	279.9	259.5	246.1	237.4	231.5	227.4	224.1	223.0
30°	528.6	416.9	308.4	266.6	246.9	234.7	227.4	223.3	219.7	215.5	214.8
32.5°	547.2	416.9	294.9	252.1	234.5	224.6	220.3	217.8	213.8	209.7	208.6
35°	565.7	414.4	279.0	237.0	223.0	217.4	217.2	214.2	208.1	202.6	201.2
37.5°	585.3	409.2	261.1	222.8	213.6	214.2	216.1	209.5	200.8	193.0	190.9
40°	607.4	402.0	242.5	210.6	205.7	212.8	213.1	202.6	185.8	178.6	176.7
42.5°	633.4	394.8	225.3	199.7	199.5	208.5	207.5	187.8	177.7	174.1	173.1
45°	667.5	390.8	208.9	189.5	194.7	201.5	197.9	179.6	175.4	173.3	172.4
47.5°	721.4	392.9	193.9	181.3	189.8	194.5	180.0	176.3	173.3	170.8	169.9
50°	788.8	391.6	181.7	175.6	184.3	187.3	171.9	172.0	170.4	167.6	166.2
52.5°	839.5	382.1	173.9	172.4	179.4	174.3	166.8	167.8	167.0	162.8	161.4
55°	888.5	373.9	169.9	171.2	175.9	158.2	160.8	163.3	162.5	158.4	157.7
57.5°	949.4	372.4	167.5	171.6	172.9	150.1	155.1	158.3	157.7	156.0	155.6
60°	1024.0	372.8	165.3	172.1	169.6	144.1	149.7	153.8	154.1	153.8	153.5
62.5°	1065.0	360.8	159.7	170.6	163.7	138.9	144.0	150.0	150.1	150.8	150.7
65°	1030.2	324.8	149.4	165.1	153.9	134.6	139.2	145.7	144.0	147.0	147.0
66°	996.4	304.0	144.4	161.6	149.7	133.0	137.6	143.5	141.4	145.5	145.5
67.5°	927.3	268.9	135.2	154.1	143.7	130.7	135.9	139.8	137.0	143.0	142.6
70°	801.1	208.0	116.7	137.1	133.9	127.2	133.4	132.5	128.3	137.6	135.9
72.5°	675.4	158.1	93.7	114.7	118.9	122.9	130.0	123.2	117.9	124.5	120.6
75°	524.1	118.8	74.1	89.2	100.5	116.2	125.9	112.5	104.9	104.2	102.1
77.5°	283.3	81.6	58.7	68.1	79.8	107.8	123.1	101.0	89.5	86.9	85.2
80°	112.2	53.1	42.7	51.6	55.8	95.6	116.5	87.7	73.8	71.2	68.6
82.5°	46.3	31.4	27.5	34.6	36.4	81.8	104.6	71.8	57.0	78.9	83.8
85°	19.9	17.2	16.4	17.9	20.6	57.4	83.2	54.8	61.6	54.9	43.7
87.5°	6.0	7.3	7.0	6.9	7.5	13.7	44.3	30.5	45.2	17.1	12.8
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)