

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: P348822

Luminaire Tested: **ARCH-N-PA1-20-740-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348822
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-20-740-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 420mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2397 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 24
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

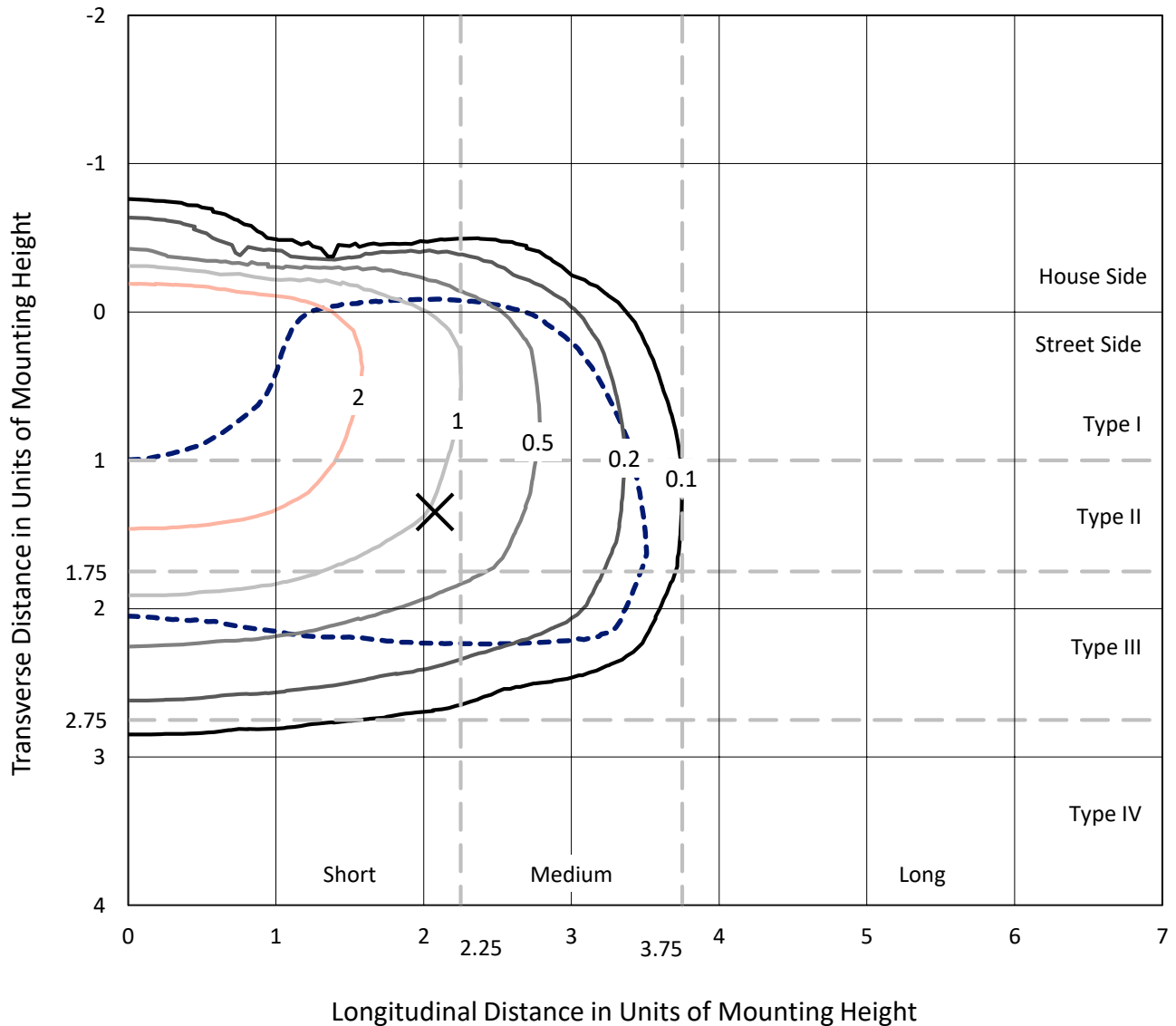


REPORT NUMBER: P348822

CATALOG NUMBER: ARCH-N-PA1-20-740-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

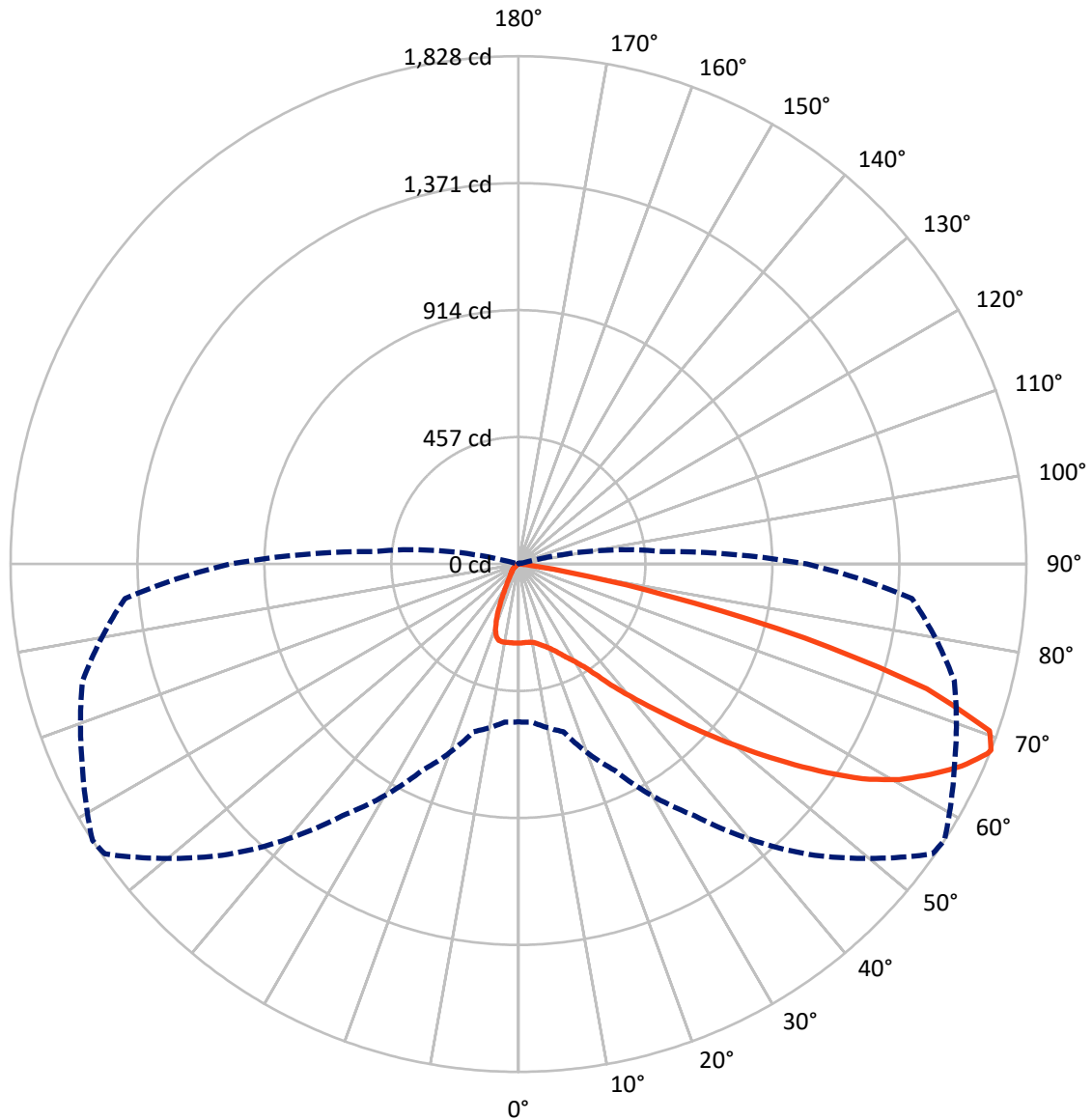


Based on 10 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P348822

CATALOG NUMBER: ARCH-N-PA1-20-740-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical



REPORT NUMBER: P348822

CATALOG NUMBER: ARCH-N-PA1-20-740-U-T3-HSS

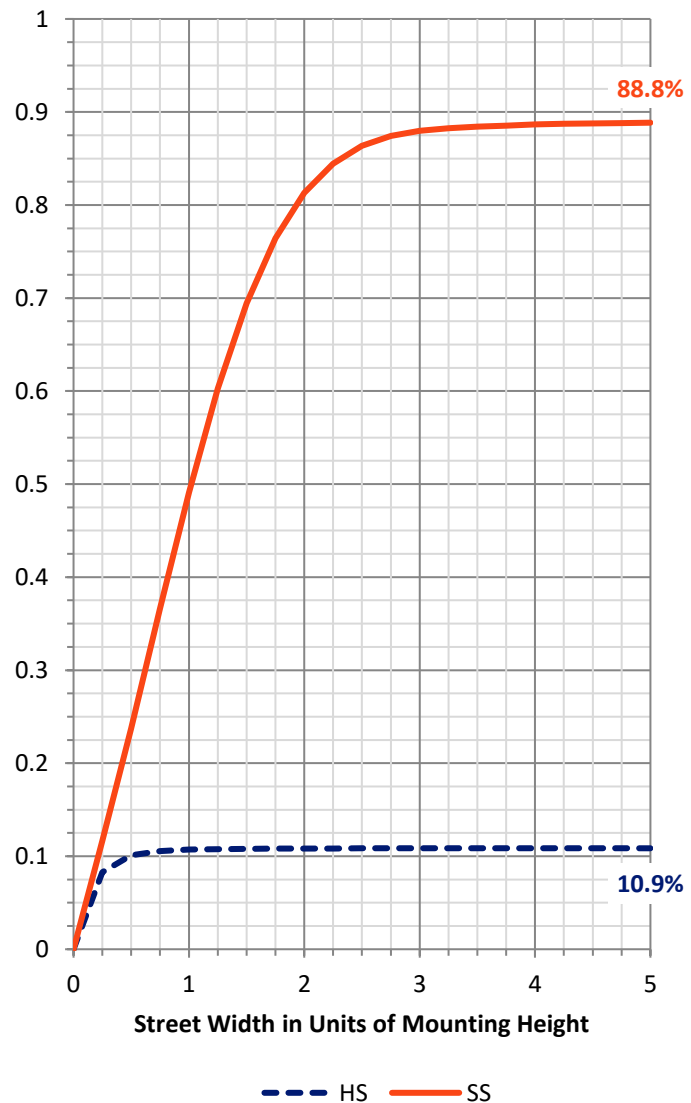
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	262.9	0.0	262.9
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	2134.2	0.0	2134.2
	% Fixture	89.0	0.0	89.0
Total	Lumens	2397.0	0.0	2397.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.7	1.1
10°-20°	73.9	3.1
20°-30°	127.4	5.3
30°-40°	219.9	9.2
40°-50°	376.2	15.7
50°-60°	601.9	25.1
60°-70°	695.4	29.0
70°-80°	265.7	11.1
80°-90°	10.0	0.4
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°	2397.0	100.0
0°-180°	2397.0	100.0

Coefficient of Utilization



REPORT NUMBER: P348822

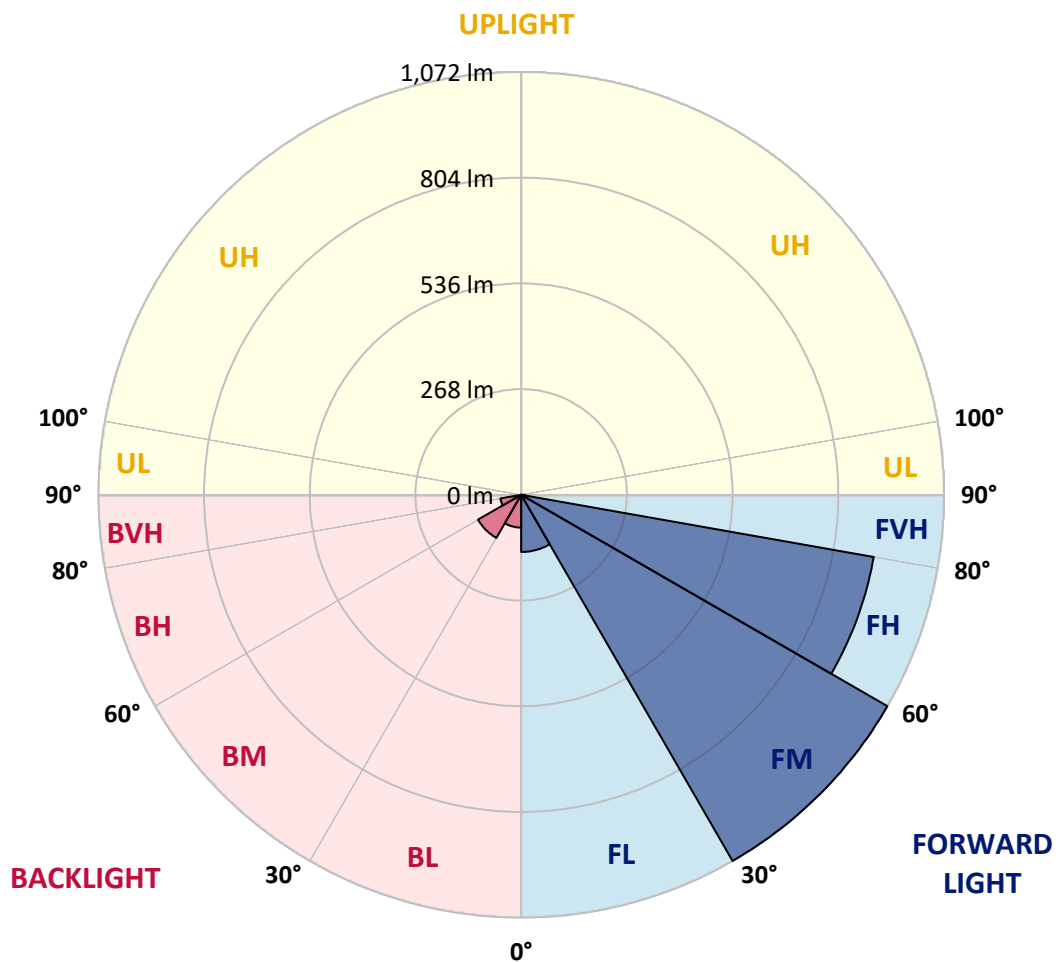
CATALOG NUMBER: ARCH-N-PA1-20-740-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	144.9	6.0			
FM	(30°-60°)	1071.9	44.7			
FH	(60°-80°)	907.6	37.9			G1/1800
FVH	(80°-90°)	9.8	0.4			G0/10
BL	(0°-30°)	83.1	3.5	B0/110		
BM	(30°-60°)	126.1	5.3	B0/220		
BH	(60°-80°)	53.5	2.2	B0/110		G0/110
BVH	(80°-90°)	0.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short





REPORT NUMBER: P348822

CATALOG NUMBER: ARCH-N-PA1-20-740-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	284.8	284.8	284.8	284.8	284.8	284.8	284.8	284.8	284.8	284.8	284.8
2.5°	278.1	279.4	280.3	280.9	281.5	283.0	283.5	284.1	284.5	284.5	285.3
5°	267.1	268.5	270.4	272.0	275.2	279.3	282.2	283.4	285.4	287.2	288.2
7.5°	256.9	258.5	260.8	264.5	270.0	276.6	282.7	284.3	288.2	292.1	294.0
10°	250.4	251.6	254.6	259.9	267.0	276.2	284.8	286.8	293.6	300.0	303.6
12.5°	248.1	249.2	252.3	258.3	267.1	277.9	289.8	292.6	302.6	312.0	317.1
15°	251.4	251.6	254.9	260.6	269.3	282.1	298.1	301.5	314.1	326.3	332.7
17.5°	264.1	263.1	264.8	267.3	274.2	287.7	306.8	311.9	328.7	343.1	349.1
20°	295.8	295.8	292.0	285.2	285.3	296.3	318.6	324.4	344.9	361.6	367.0
22.5°	350.1	349.1	341.4	324.7	309.4	311.1	333.0	340.5	364.4	382.2	384.0
25°	415.4	414.1	402.2	378.8	352.3	335.2	352.5	361.1	387.6	403.4	399.6
27.5°	484.5	483.5	471.7	442.6	404.9	373.5	375.7	383.9	411.3	426.8	414.9
30°	551.5	551.9	540.2	510.3	467.5	422.3	405.2	410.0	434.3	450.1	433.1
32.5°	615.2	615.7	605.6	572.1	532.3	479.1	446.0	444.8	461.1	476.6	457.1
35°	672.0	673.1	666.2	640.3	598.0	542.3	498.9	496.0	499.0	516.6	493.9
37.5°	726.7	727.4	722.2	700.3	665.0	611.8	565.8	561.6	555.0	568.5	542.6
40°	786.7	785.0	779.0	759.2	728.8	688.5	637.7	630.4	619.0	631.0	606.5
42.5°	842.5	840.5	841.6	819.1	793.5	767.4	721.4	709.0	702.3	716.1	684.9
45°	912.2	911.2	914.6	895.1	874.3	855.4	817.4	803.8	800.9	817.1	779.8
47.5°	981.0	983.5	994.0	985.7	977.3	960.7	919.1	913.0	914.8	934.4	879.9
50°	1038.3	1041.3	1070.2	1079.7	1091.8	1082.1	1040.4	1036.6	1043.8	1061.4	987.5
52.5°	1079.8	1085.8	1121.7	1165.6	1209.8	1216.4	1174.8	1171.4	1181.0	1183.7	1070.7
55°	1108.6	1113.9	1154.6	1234.9	1324.8	1353.2	1327.3	1314.2	1312.4	1285.5	1158.2
57.5°	1113.7	1113.1	1171.6	1279.6	1415.1	1488.2	1471.9	1458.9	1421.8	1379.6	1258.5
60°	1084.9	1088.2	1156.1	1295.2	1471.7	1590.3	1591.5	1574.8	1516.8	1471.1	1355.8
62.5°	996.3	1009.6	1078.2	1254.5	1471.1	1631.4	1679.3	1666.5	1597.2	1546.0	1454.4
65°	852.6	857.3	922.7	1115.1	1371.7	1614.2	1758.3	1753.5	1669.6	1618.7	1505.1
67.5°	622.6	612.3	681.0	878.1	1161.3	1513.8	1814.9	1820.9	1725.5	1633.7	1451.1
68°	568.2	571.2	624.7	819.5	1106.2	1478.3	1818.7	1827.9	1731.1	1624.0	1421.6
70°	338.7	344.6	392.3	564.2	841.6	1277.6	1778.3	1799.3	1698.0	1523.4	1229.6
72.5°	86.5	93.5	138.6	252.5	480.7	900.2	1501.2	1536.7	1474.2	1235.9	830.1
75°	35.6	37.4	49.5	83.2	179.1	405.5	989.5	1065.4	1022.0	739.9	375.2
77.5°	24.6	25.8	31.8	46.1	77.5	137.5	485.1	540.0	486.5	252.5	81.8
80°	17.7	18.7	22.8	30.7	44.5	49.1	158.1	182.8	145.2	55.4	20.3
82.5°	10.5	11.3	17.0	21.9	27.1	23.5	39.3	44.7	42.0	27.5	9.1
85°	5.2	6.1	11.4	15.6	14.6	9.9	12.0	13.4	16.5	16.8	4.9
87.5°	0.3	0.7	6.7	9.4	4.1	2.3	3.5	4.3	5.9	8.3	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P348822

CATALOG NUMBER: ARCH-N-PA1-20-740-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	284.8	284.8	284.8	284.8	284.8	284.8	284.8	284.8	284.8	284.8	284.8
2.5°	285.6	285.7	284.9	284.6	284.8	283.5	282.9	283.1	283.1	283.5	282.9
5°	288.5	288.5	287.1	285.3	284.3	281.7	280.0	279.5	279.2	278.9	278.5
7.5°	294.6	293.9	291.5	287.5	284.1	278.5	274.2	271.9	270.8	270.3	270.0
10°	304.4	303.2	299.2	291.9	284.0	273.9	264.5	257.9	252.3	250.0	248.7
12.5°	317.7	315.9	309.2	297.0	283.2	264.7	244.3	224.6	206.4	198.9	195.2
15°	333.0	330.4	319.8	301.3	278.6	243.7	199.4	165.0	139.7	130.2	126.1
17.5°	348.5	345.1	329.1	304.0	264.7	200.3	139.9	105.6	88.7	84.2	82.6
20°	364.2	359.2	337.2	301.9	233.1	144.4	92.3	77.2	72.3	71.0	70.5
22.5°	379.0	371.3	344.4	294.0	184.6	96.9	73.0	68.2	66.6	65.9	65.6
25°	391.9	381.2	350.8	269.5	130.7	73.2	65.7	64.2	62.1	60.6	60.8
27.5°	404.1	391.0	354.6	229.2	87.2	62.6	60.9	58.7	55.0	52.8	52.8
30°	418.7	404.2	357.5	176.4	64.2	55.3	54.0	50.7	45.6	42.7	42.7
32.5°	440.7	424.1	355.7	123.8	53.2	48.6	45.4	40.9	35.4	32.6	32.5
35°	474.3	455.0	342.7	81.2	46.9	42.3	37.2	31.6	26.7	24.5	24.4
37.5°	519.7	496.2	313.7	58.0	42.0	36.4	30.3	24.1	20.5	19.0	18.9
40°	578.5	544.2	272.2	47.0	37.5	30.7	23.3	18.7	16.2	15.1	15.2
42.5°	649.1	595.5	222.5	40.6	33.1	25.3	18.2	14.7	13.1	12.4	12.1
45°	727.5	646.2	170.4	36.2	28.7	20.4	14.3	11.7	10.4	10.0	10.0
47.5°	813.8	695.5	124.7	32.3	23.9	15.8	11.4	9.5	8.5	8.2	8.0
50°	892.1	729.7	89.9	28.2	19.6	12.5	9.3	7.9	7.3	6.8	6.8
52.5°	957.4	740.5	66.2	23.8	15.9	10.0	7.7	6.8	6.1	5.8	5.8
55°	1014.9	736.0	49.2	19.6	12.8	8.2	6.6	5.8	5.2	4.9	4.9
57.5°	1069.9	721.8	36.7	16.0	10.3	6.6	5.6	4.9	4.3	4.1	4.1
60°	1114.9	698.0	27.3	12.9	8.3	5.3	4.6	4.0	3.5	3.2	3.2
62.5°	1151.4	671.7	20.1	10.7	6.6	4.2	3.6	3.3	2.6	2.3	2.3
65°	1151.7	628.0	15.1	8.8	5.1	3.3	2.7	2.6	1.7	1.4	1.2
67.5°	1068.4	541.4	11.6	7.6	4.0	2.5	2.0	2.2	0.9	0.6	0.5
68°	1038.1	519.4	10.9	7.5	3.7	2.4	1.9	2.2	0.8	0.5	0.3
70°	875.2	413.2	8.7	7.3	3.3	1.8	1.6	2.2	0.7	0.3	0.2
72.5°	559.8	239.8	6.5	5.8	2.5	1.4	1.0	1.9	0.7	0.2	0.1
75°	238.2	74.4	4.4	4.1	1.5	1.0	0.7	1.2	0.5	0.1	0.0
77.5°	50.2	16.8	2.6	2.5	1.0	0.7	0.5	0.3	0.1	0.0	0.0
80°	12.9	4.9	1.4	1.2	0.6	0.3	0.2	0.0	0.0	0.0	0.0
82.5°	4.1	1.9	0.8	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.0	1.1	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)