

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: P348813

Luminaire Tested: **ARCH-N-PA1-10-730-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348813
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-PA1-10-730-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 270mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1437 lumens
Efficiency: N/A
Efficacy: 102.6 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 - G0

Input Watts (W): 14
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

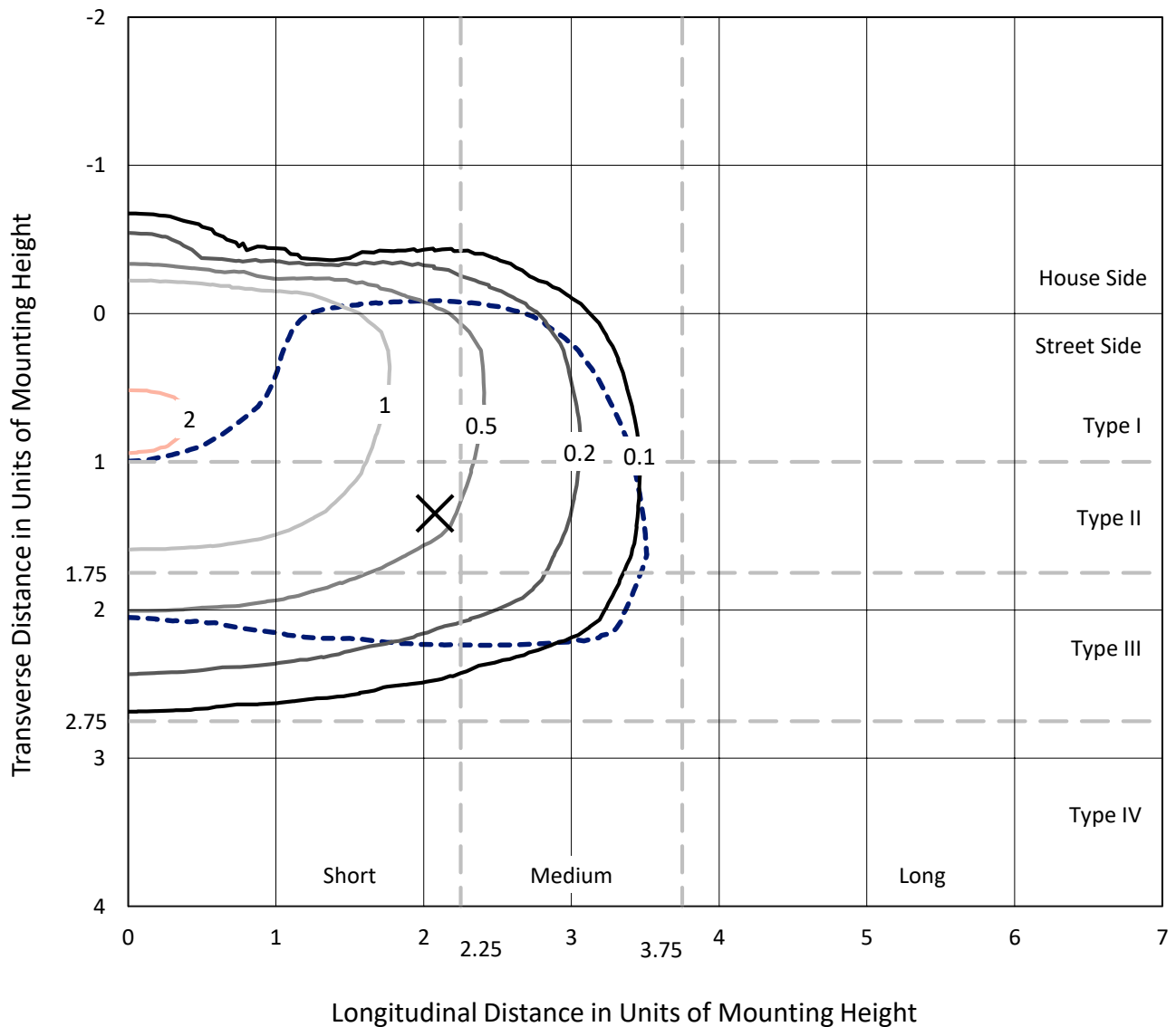


REPORT NUMBER: P348813

CATALOG NUMBER: ARCH-N-PA1-10-730-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

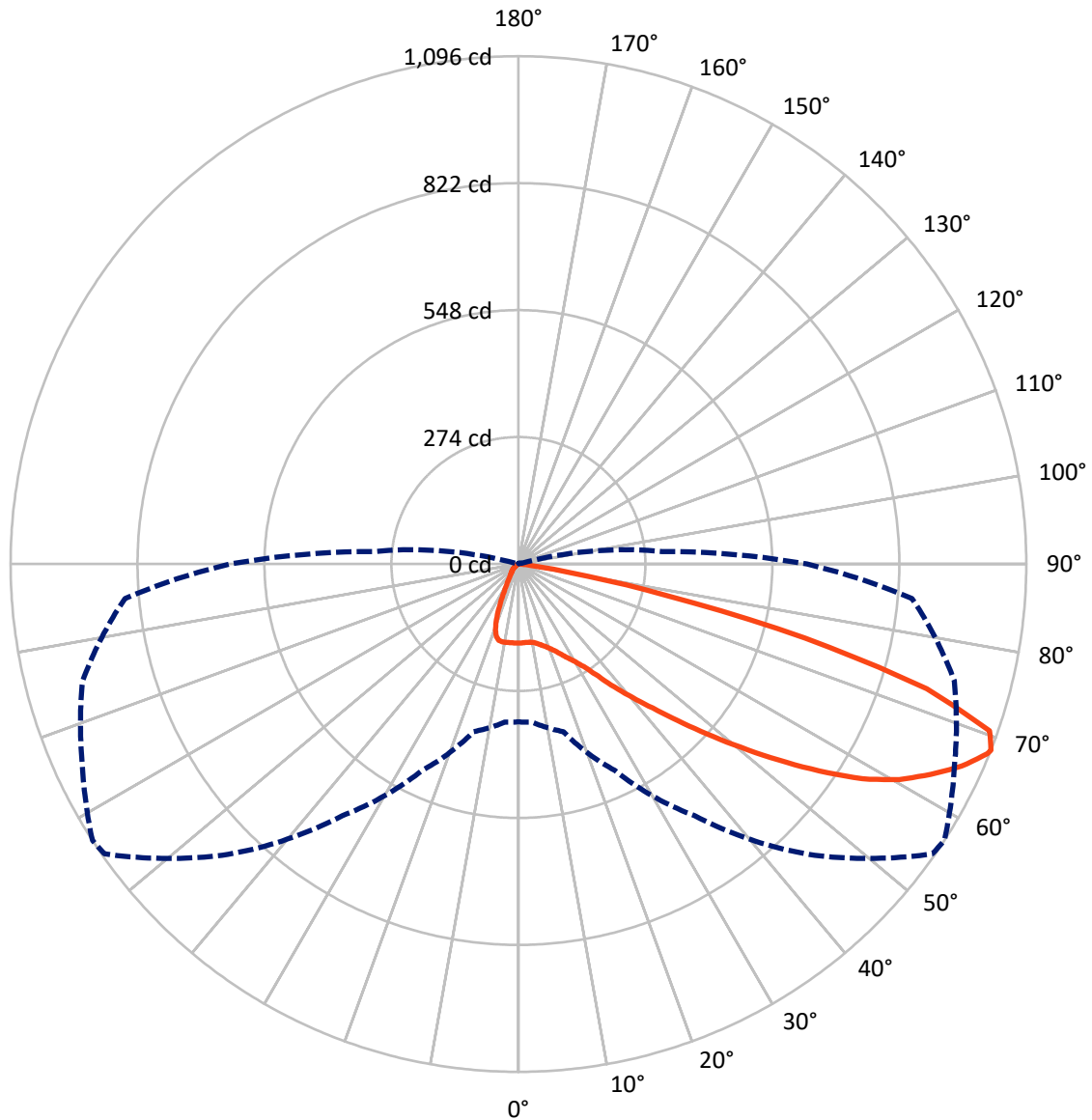


Based on 10 foot mounting height. Maximum calculated value = 2.2 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P348813

CATALOG NUMBER: ARCH-N-PA1-10-730-U-T3-HSS

Luminous Intensity Polar Plot



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



REPORT NUMBER: P348813

CATALOG NUMBER: ARCH-N-PA1-10-730-U-T3-HSS

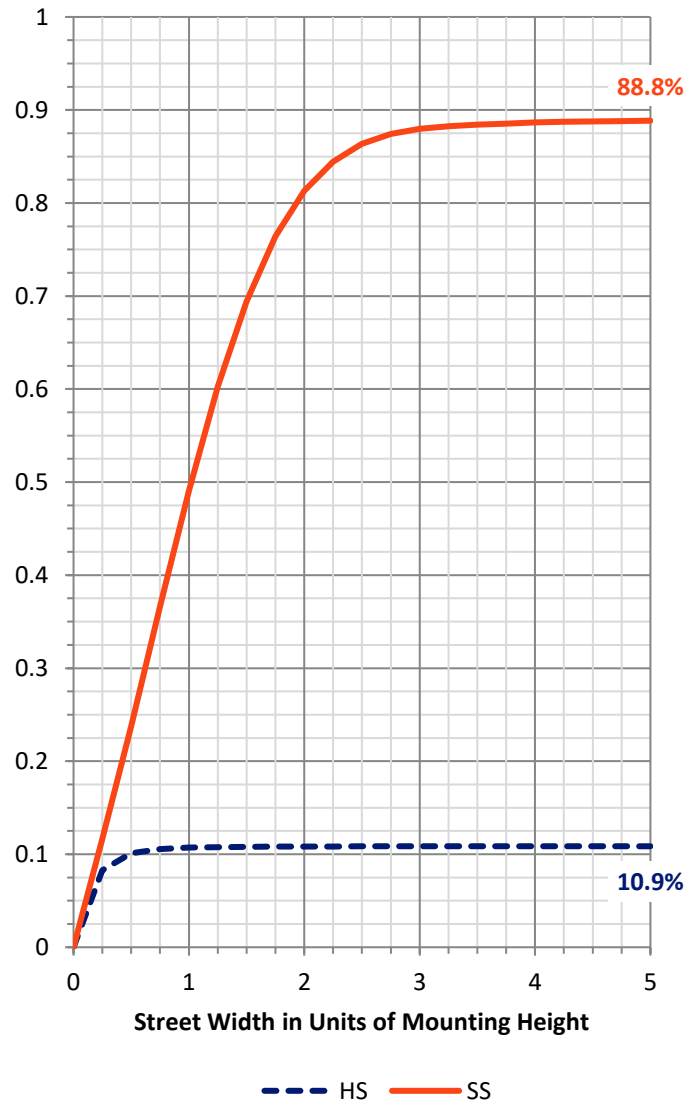
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	157.6	0.0	157.6
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	1279.4	0.0	1279.4
	% Fixture	89.0	0.0	89.0
Total	Lumens	1437.0	0.0	1437.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.0	1.1
10°-20°	44.3	3.1
20°-30°	76.4	5.3
30°-40°	131.8	9.2
40°-50°	225.5	15.7
50°-60°	360.8	25.1
60°-70°	416.9	29.0
70°-80°	159.3	11.1
80°-90°	6.0	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°	1437.0	100.0
0°-180°	1437.0	100.0



REPORT NUMBER: P348813

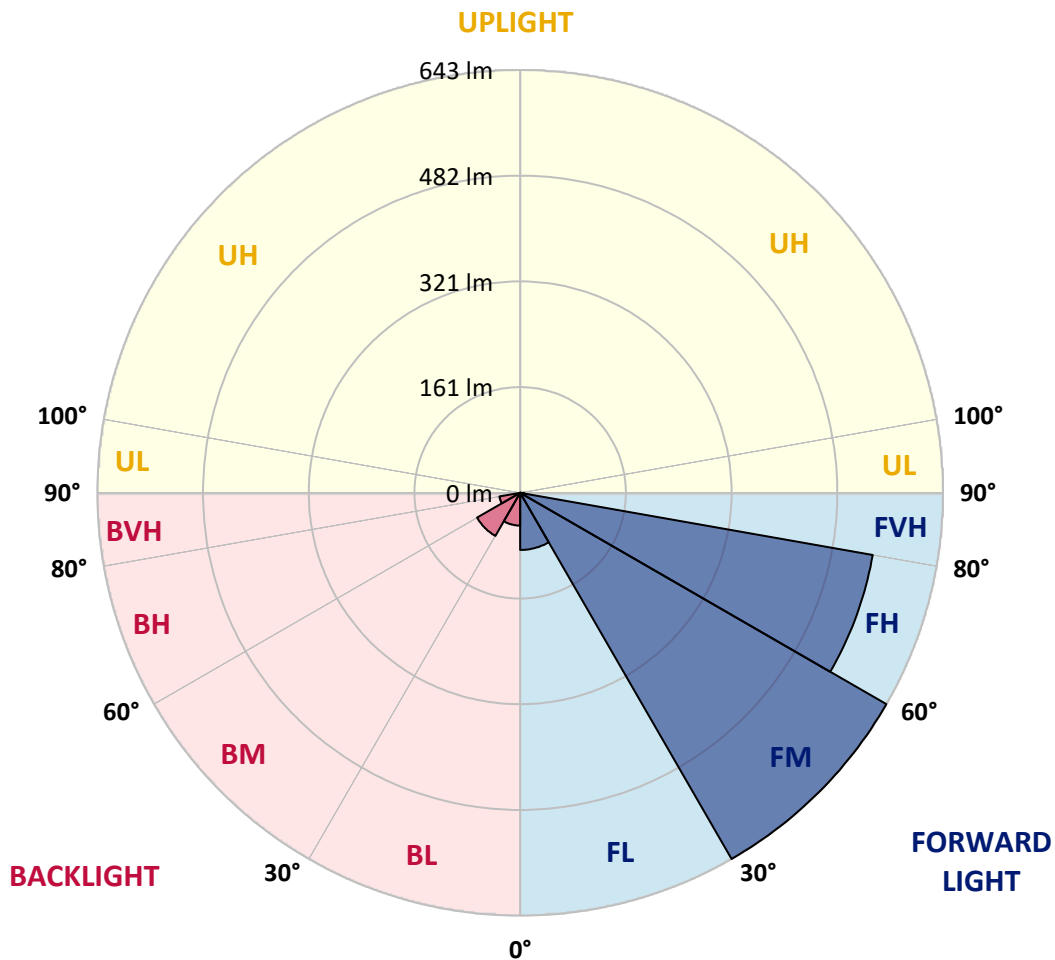
CATALOG NUMBER: ARCH-N-PA1-10-730-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	86.9	6.0			
FM	(30°-60°)	642.6	44.7			
FH	(60°-80°)	544.1	37.9			G0/660
FVH	(80°-90°)	5.9	0.4			G0/10
BL	(0°-30°)	49.8	3.5	B0/110		
BM	(30°-60°)	75.6	5.3	B0/220		
BH	(60°-80°)	32.1	2.2	B0/110		G0/110
BVH	(80°-90°)	0.1	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-G0

Type III Short





REPORT NUMBER: P348813

CATALOG NUMBER: ARCH-N-PA1-10-730-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	170.8	170.8	170.8	170.8	170.8	170.8	170.8	170.8	170.8	170.8	170.8
2.5°	166.7	167.5	168.0	168.4	168.8	169.7	169.9	170.3	170.5	170.5	171.0
5°	160.2	161.0	162.1	163.1	165.0	167.4	169.2	169.9	171.1	172.2	172.8
7.5°	154.0	155.0	156.3	158.6	161.9	165.8	169.5	170.4	172.8	175.1	176.3
10°	150.1	150.8	152.6	155.8	160.1	165.6	170.8	171.9	176.0	179.9	182.0
12.5°	148.7	149.4	151.3	154.9	160.2	166.6	173.7	175.4	181.4	187.1	190.1
15°	150.7	150.8	152.8	156.2	161.4	169.1	178.7	180.7	188.3	195.6	199.4
17.5°	158.3	157.7	158.7	160.2	164.4	172.5	183.9	187.0	197.0	205.7	209.3
20°	177.3	177.3	175.0	171.0	171.0	177.6	191.0	194.5	206.8	216.8	220.0
22.5°	209.9	209.3	204.7	194.7	185.5	186.5	199.6	204.1	218.5	229.1	230.2
25°	249.0	248.3	241.1	227.1	211.2	200.9	211.3	216.5	232.4	241.8	239.6
27.5°	290.5	289.9	282.8	265.3	242.7	223.9	225.2	230.1	246.6	255.9	248.8
30°	330.6	330.8	323.8	305.9	280.3	253.2	242.9	245.8	260.4	269.8	259.6
32.5°	368.8	369.1	363.0	343.0	319.1	287.2	267.4	266.6	276.4	285.7	274.0
35°	402.9	403.5	399.4	383.8	358.5	325.1	299.1	297.3	299.2	309.7	296.1
37.5°	435.7	436.1	433.0	419.9	398.7	366.8	339.2	336.7	332.7	340.8	325.3
40°	471.6	470.6	467.0	455.1	436.9	412.8	382.3	377.9	371.1	378.3	363.6
42.5°	505.1	503.9	504.5	491.1	475.7	460.1	432.5	425.0	421.0	429.3	410.6
45°	546.8	546.2	548.3	536.6	524.2	512.8	490.0	481.9	480.1	489.8	467.5
47.5°	588.1	589.6	595.9	590.9	585.9	575.9	551.0	547.3	548.4	560.2	527.5
50°	622.5	624.2	641.6	647.3	654.5	648.7	623.7	621.5	625.7	636.3	592.0
52.5°	647.3	650.9	672.5	698.8	725.3	729.2	704.3	702.2	708.0	709.6	641.9
55°	664.6	667.8	692.2	740.3	794.2	811.2	795.7	787.9	786.8	770.7	694.4
57.5°	667.7	667.3	702.4	767.1	848.3	892.2	882.4	874.6	852.3	827.1	754.5
60°	650.4	652.4	693.1	776.4	882.3	953.4	954.1	944.1	909.3	881.9	812.8
62.5°	597.3	605.3	646.4	752.0	881.9	978.0	1006.7	999.0	957.5	926.8	871.9
65°	511.1	514.0	553.2	668.5	822.3	967.7	1054.1	1051.2	1000.9	970.4	902.3
67.5°	373.2	367.1	408.2	526.4	696.2	907.5	1088.1	1091.7	1034.4	979.4	869.9
68°	340.6	342.5	374.5	491.3	663.2	886.2	1090.3	1095.8	1037.8	973.6	852.3
70°	203.0	206.6	235.2	338.2	504.5	765.9	1066.1	1078.7	1017.9	913.3	737.2
72.5°	51.8	56.1	83.1	151.4	288.2	539.6	900.0	921.2	883.8	740.9	497.7
75°	21.3	22.4	29.7	49.9	107.4	243.1	593.2	638.7	612.7	443.6	224.9
77.5°	14.7	15.5	19.1	27.7	46.5	82.4	290.8	323.7	291.6	151.4	49.1
80°	10.6	11.2	13.7	18.4	26.7	29.4	94.8	109.6	87.0	33.2	12.2
82.5°	6.3	6.8	10.2	13.1	16.2	14.1	23.6	26.8	25.2	16.5	5.4
85°	3.1	3.7	6.9	9.4	8.8	5.9	7.2	8.0	9.9	10.1	2.9
87.5°	0.2	0.4	4.0	5.6	2.4	1.4	2.1	2.6	3.5	5.0	1.2
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: P348813

CATALOG NUMBER: ARCH-N-PA1-10-730-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	170.8	170.8	170.8	170.8	170.8	170.8	170.8	170.8	170.8	170.8	170.8
2.5°	171.2	171.3	170.8	170.6	170.8	169.9	169.6	169.7	169.7	169.9	169.6
5°	172.9	172.9	172.1	171.0	170.4	168.9	167.8	167.6	167.4	167.2	166.9
7.5°	176.6	176.2	174.8	172.4	170.3	166.9	164.4	163.0	162.3	162.1	161.9
10°	182.5	181.8	179.4	175.0	170.3	164.2	158.6	154.6	151.3	149.9	149.1
12.5°	190.5	189.4	185.4	178.0	169.8	158.7	146.4	134.7	123.7	119.2	117.0
15°	199.6	198.1	191.7	180.6	167.0	146.1	119.5	98.9	83.8	78.1	75.6
17.5°	208.9	206.9	197.3	182.2	158.7	120.1	83.8	63.3	53.2	50.5	49.5
20°	218.3	215.3	202.1	181.0	139.8	86.6	55.3	46.3	43.4	42.5	42.3
22.5°	227.2	222.6	206.5	176.3	110.7	58.1	43.8	40.9	40.0	39.5	39.3
25°	235.0	228.5	210.3	161.6	78.3	43.9	39.4	38.5	37.2	36.4	36.4
27.5°	242.2	234.4	212.6	137.4	52.3	37.5	36.5	35.2	33.0	31.7	31.7
30°	251.0	242.3	214.3	105.7	38.5	33.2	32.3	30.4	27.3	25.6	25.6
32.5°	264.2	254.3	213.2	74.2	31.9	29.1	27.2	24.5	21.2	19.6	19.5
35°	284.4	272.7	205.5	48.7	28.1	25.3	22.3	19.0	16.0	14.7	14.6
37.5°	311.5	297.5	188.1	34.8	25.2	21.8	18.1	14.5	12.3	11.4	11.3
40°	346.8	326.2	163.2	28.2	22.5	18.4	14.0	11.2	9.7	9.0	9.1
42.5°	389.1	357.0	133.4	24.3	19.8	15.2	10.9	8.8	7.9	7.4	7.3
45°	436.2	387.4	102.1	21.7	17.2	12.2	8.6	7.0	6.3	6.0	6.0
47.5°	487.9	416.9	74.7	19.4	14.3	9.4	6.9	5.7	5.1	4.9	4.8
50°	534.8	437.4	53.9	16.9	11.8	7.5	5.6	4.8	4.3	4.1	4.1
52.5°	574.0	443.9	39.7	14.3	9.5	6.0	4.6	4.1	3.7	3.5	3.5
55°	608.4	441.3	29.5	11.8	7.7	4.9	3.9	3.5	3.1	2.9	2.9
57.5°	641.4	432.7	22.0	9.6	6.2	3.9	3.3	2.9	2.6	2.4	2.4
60°	668.4	418.4	16.4	7.7	5.0	3.2	2.8	2.4	2.1	1.9	1.9
62.5°	690.3	402.7	12.0	6.4	3.9	2.5	2.2	2.0	1.6	1.4	1.4
65°	690.4	376.5	9.0	5.3	3.1	2.0	1.6	1.6	1.0	0.8	0.7
67.5°	640.5	324.6	6.9	4.6	2.4	1.5	1.2	1.3	0.5	0.3	0.3
68°	622.3	311.4	6.5	4.5	2.2	1.4	1.2	1.3	0.5	0.3	0.2
70°	524.7	247.7	5.2	4.3	2.0	1.1	1.0	1.3	0.4	0.2	0.1
72.5°	335.6	143.8	3.9	3.5	1.5	0.8	0.6	1.2	0.4	0.1	0.1
75°	142.8	44.6	2.6	2.4	0.9	0.6	0.4	0.7	0.3	0.1	0.0
77.5°	30.1	10.1	1.6	1.5	0.6	0.4	0.3	0.2	0.1	0.0	0.0
80°	7.7	2.9	0.8	0.7	0.3	0.2	0.1	0.0	0.0	0.0	0.0
82.5°	2.4	1.2	0.5	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.2	0.7	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	0.2	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)