

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: P348583

Luminaire Tested: **ARCH-N-PA1-19-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348583
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-PA1-19-727-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 370mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2519 lumens
Efficiency: N/A
Efficacy: 132.6 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): 19
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

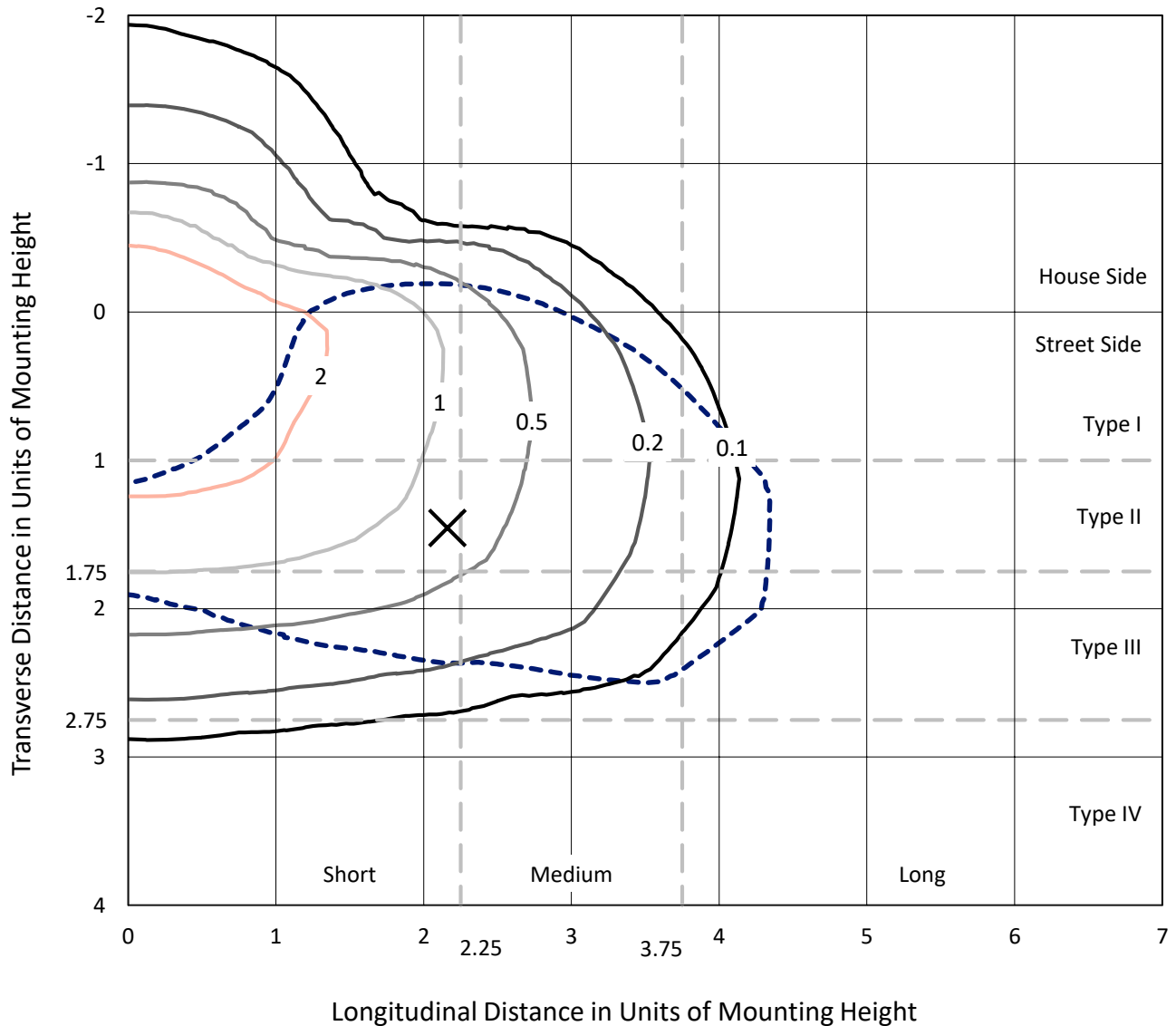


REPORT NUMBER: P348583

CATALOG NUMBER: ARCH-N-PA1-19-727-U-T3

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

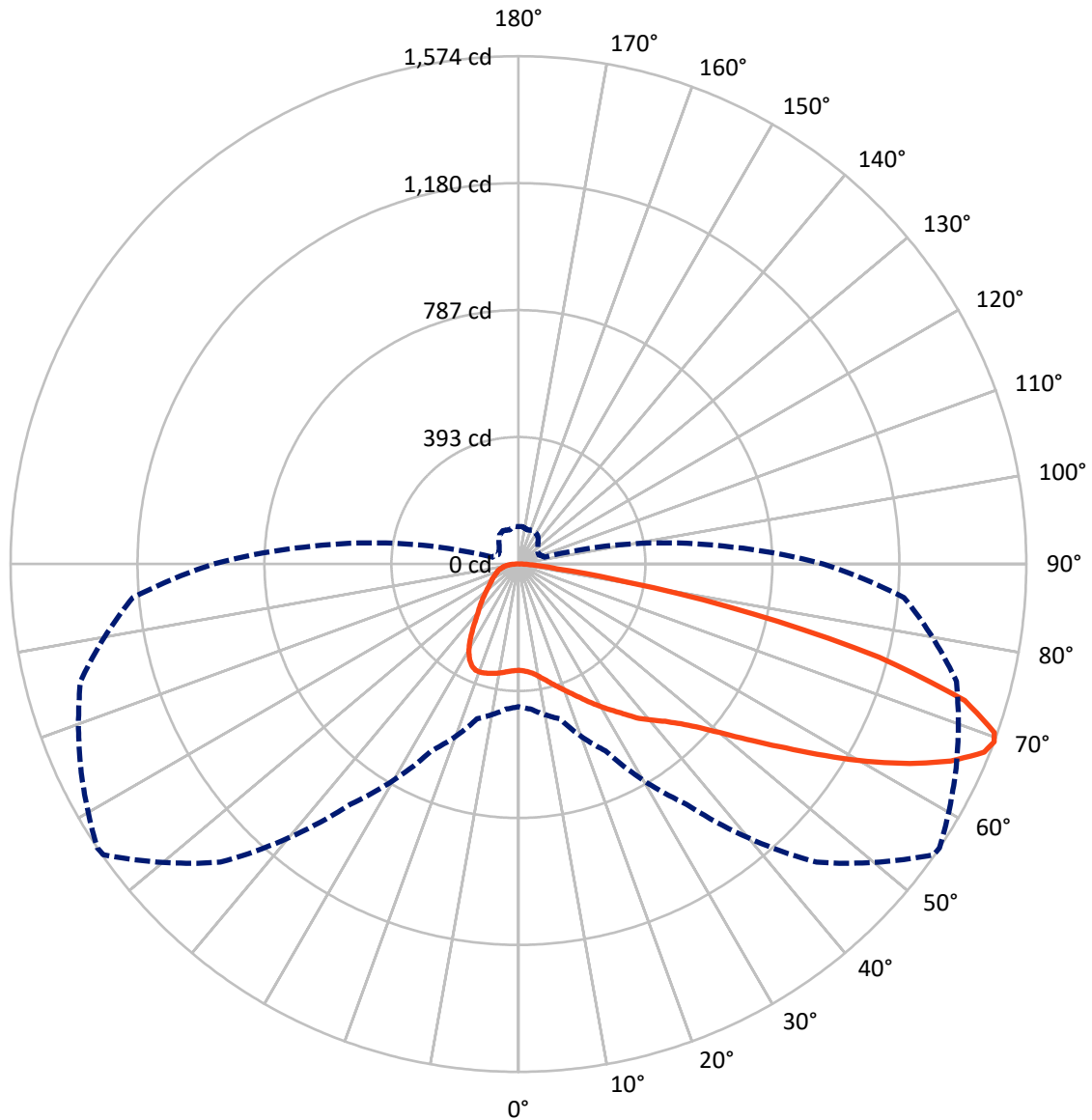


Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Short - Semi-Cutoff

REPORT NUMBER: P348583

CATALOG NUMBER: ARCH-N-PA1-19-727-U-T3

Luminous Intensity Polar Plot



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



REPORT NUMBER: P348583

CATALOG NUMBER: ARCH-N-PA1-19-727-U-T3

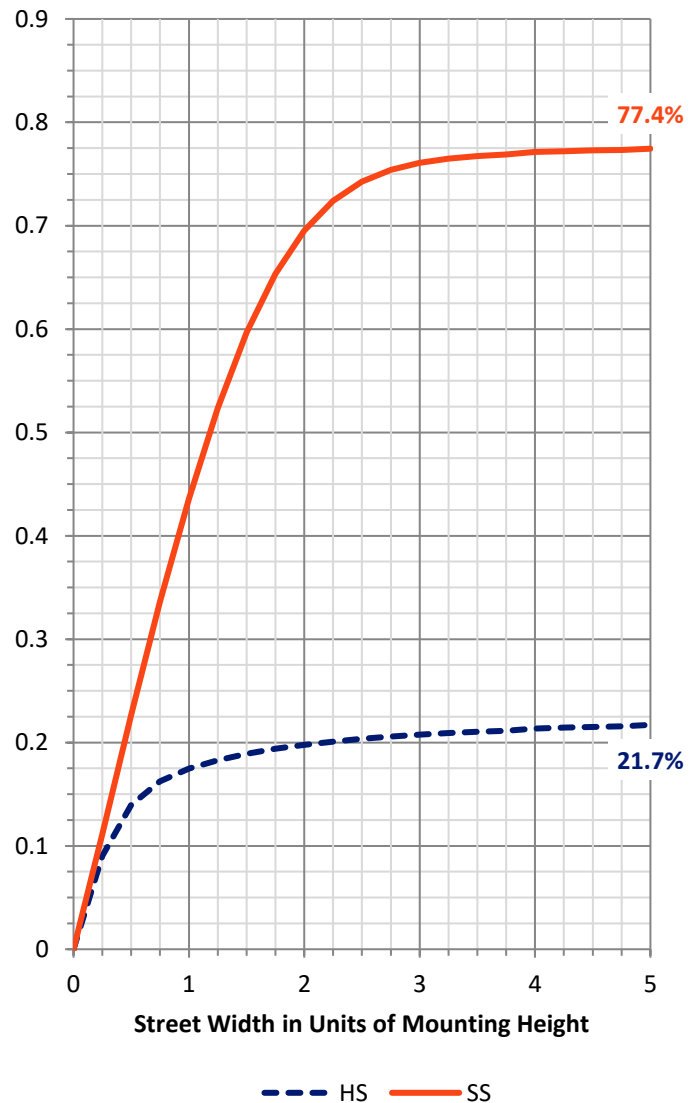
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	561.0	0.0	561.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	1958.0	0.0	1958.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	2519.0	0.0	2519.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.3	1.3
10°-20°	104.0	4.1
20°-30°	181.6	7.2
30°-40°	260.8	10.4
40°-50°	360.9	14.3
50°-60°	528.8	21.0
60°-70°	644.7	25.6
70°-80°	356.4	14.2
80°-90°	49.4	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°	2519.0	100.0
0°-180°	2519.0	100.0



REPORT NUMBER: P348583

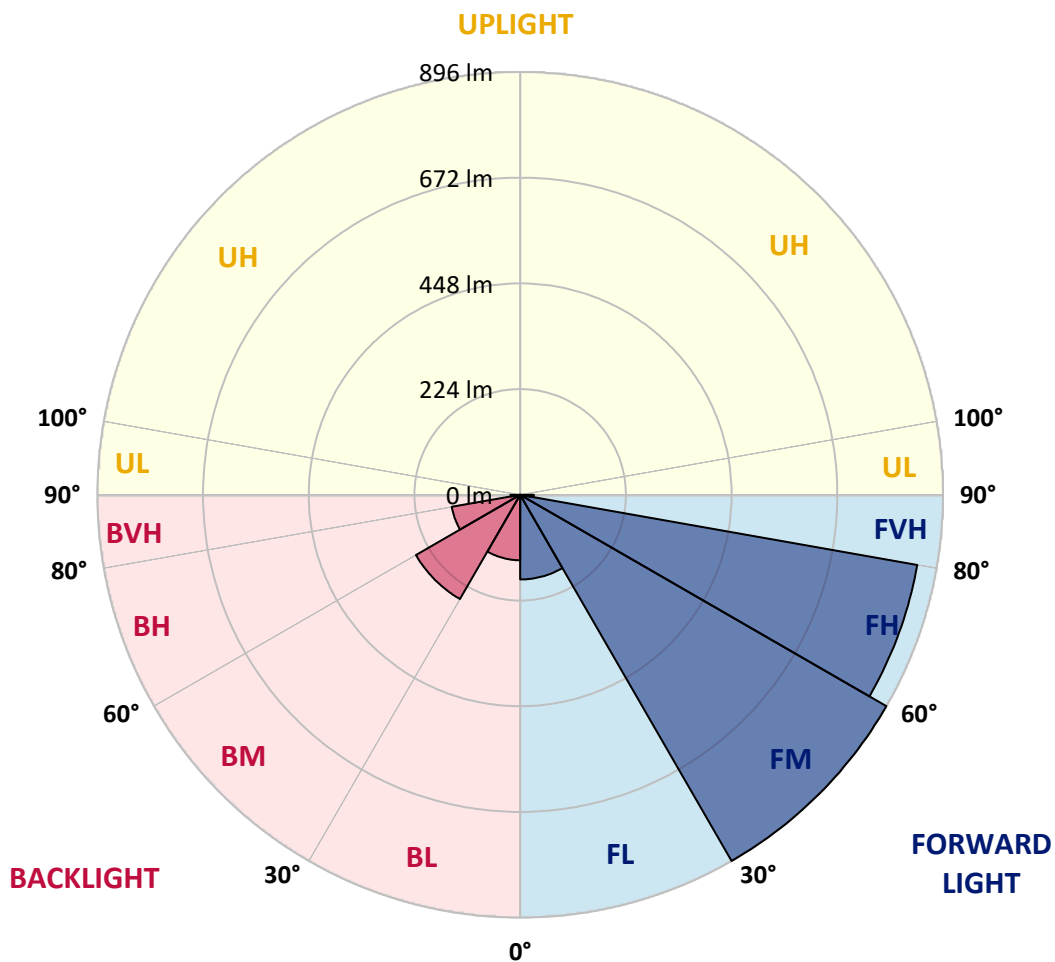
CATALOG NUMBER: ARCH-N-PA1-19-727-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	179.3	7.1			
FM	(30°-60°)	895.6	35.6			
FH	(60°-80°)	854.1	33.9			G1/1800
FVH	(80°-90°)	29.1	1.2			G1/100
BL	(0°-30°)	138.6	5.5	B1/500		
BM	(30°-60°)	254.9	10.1	B1/1000		
BH	(60°-80°)	147.1	5.8	B1/500		G1/500
BVH	(80°-90°)	20.3	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





REPORT NUMBER: P348583

CATALOG NUMBER: ARCH-N-PA1-19-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3
2.5°	331.4	331.8	331.5	332.2	331.4	331.9	331.5	331.5	331.2	330.4	329.6
5°	336.6	337.3	336.9	337.6	336.6	336.8	336.0	336.0	335.2	333.6	331.8
7.5°	344.8	345.5	345.2	345.9	344.6	344.6	343.6	343.5	341.9	339.2	337.2
10°	354.5	355.5	355.2	356.2	355.2	355.5	354.5	354.5	352.4	348.6	346.1
12.5°	368.6	369.9	369.0	368.9	368.5	369.2	368.3	368.1	366.2	361.0	357.5
15°	387.5	388.9	386.9	386.8	384.3	384.1	384.1	383.8	382.6	376.4	370.6
17.5°	409.3	409.8	408.0	405.3	402.1	400.1	399.9	400.6	400.6	393.3	384.2
20°	430.7	431.5	430.1	426.9	423.0	420.0	417.9	419.3	419.2	410.5	397.6
22.5°	453.9	455.8	453.7	449.7	445.0	441.7	438.1	439.3	439.4	428.7	410.8
25°	484.0	482.4	481.1	475.5	468.8	465.4	462.0	463.2	462.9	448.2	424.4
27.5°	510.7	511.0	509.3	503.3	495.6	488.1	488.0	488.7	487.4	468.5	437.3
30°	541.7	541.8	539.4	534.0	525.6	516.0	513.7	515.0	512.2	487.8	450.8
32.5°	572.5	573.3	570.7	564.1	557.4	545.7	541.1	542.0	535.1	507.5	464.8
35°	599.5	600.7	599.8	595.5	588.1	578.0	572.6	572.1	563.5	531.6	483.3
37.5°	627.0	628.1	627.1	623.5	620.5	609.9	607.0	607.0	592.1	556.2	506.8
40°	655.3	657.0	655.9	650.8	648.3	643.5	636.6	635.0	618.8	585.8	545.1
42.5°	681.6	683.8	688.3	685.4	680.3	680.9	667.1	666.3	654.5	629.6	593.3
45°	718.9	722.2	729.8	727.5	726.5	722.7	706.3	705.5	701.0	688.4	653.1
47.5°	759.6	764.1	777.9	778.3	789.5	782.3	760.0	757.3	758.4	758.9	726.1
50°	797.1	802.0	824.6	835.3	861.7	863.3	827.6	825.2	829.2	841.2	811.1
52.5°	827.0	833.2	861.5	894.5	939.7	952.6	910.8	909.0	912.0	932.7	907.3
55°	848.9	855.7	886.5	946.6	1018.8	1041.4	1006.6	1004.9	1006.8	1033.1	1011.8
57.5°	854.1	855.7	900.4	981.6	1085.5	1139.9	1123.9	1120.4	1111.0	1133.9	1127.2
60°	830.0	836.6	889.0	994.0	1137.1	1237.0	1246.4	1242.0	1215.8	1234.5	1229.1
62.5°	781.3	793.1	846.2	975.2	1157.4	1316.3	1366.6	1361.4	1316.1	1328.2	1302.4
65°	701.6	706.6	762.4	910.6	1131.7	1367.1	1473.7	1471.1	1414.1	1395.1	1315.9
67.5°	559.1	568.6	615.9	775.4	1026.6	1361.1	1556.6	1556.4	1478.2	1419.9	1267.9
69°	441.7	451.5	496.6	638.8	908.4	1306.4	1570.5	1573.5	1496.2	1404.8	1199.4
70°	352.1	363.5	394.5	538.0	803.5	1234.2	1559.0	1564.4	1492.7	1379.9	1136.1
72.5°	149.9	159.1	181.1	277.3	489.7	921.6	1425.4	1446.1	1412.3	1263.0	938.9
75°	65.4	68.3	78.3	113.1	217.4	501.6	1116.7	1154.8	1207.6	1067.5	699.4
77.5°	47.9	49.1	54.6	66.4	97.5	189.4	718.1	740.3	870.9	776.8	429.0
80°	37.1	37.9	42.2	48.8	63.7	76.6	327.5	346.6	489.7	399.0	178.7
82.5°	29.5	30.1	33.1	35.9	44.0	46.4	108.7	120.6	180.8	110.2	47.3
85°	27.4	28.1	29.2	26.2	28.2	27.2	47.0	49.2	54.6	43.3	19.8
87.5°	12.4	14.7	28.9	20.4	15.0	12.0	19.3	20.1	22.6	22.7	8.8
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: P348583

CATALOG NUMBER: ARCH-N-PA1-19-727-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3
2.5°	330.1	329.8	330.3	329.2	330.5	330.4	330.0	330.2	331.1	331.0	331.1
5°	332.1	331.9	332.4	331.7	333.2	333.7	333.8	334.6	335.6	335.8	335.8
7.5°	337.1	337.1	337.4	336.4	337.4	337.3	336.9	337.7	338.6	338.7	338.6
10°	345.8	345.9	345.5	342.8	341.9	339.6	337.4	337.5	338.7	339.6	339.9
12.5°	356.7	356.4	354.5	349.5	345.9	341.1	338.9	338.8	340.0	340.8	341.0
15°	369.2	368.3	363.3	355.3	348.8	344.2	340.5	339.6	339.0	338.1	338.2
17.5°	381.0	378.9	370.6	359.4	352.7	346.4	339.4	333.7	329.8	327.6	326.9
20°	393.0	388.8	376.9	363.3	354.7	343.4	329.8	318.4	311.3	308.0	307.4
22.5°	404.0	397.1	382.7	367.4	353.1	333.1	311.9	295.2	285.3	280.9	281.2
25°	414.6	405.1	388.8	370.3	344.8	315.1	286.9	266.4	255.0	250.0	249.8
27.5°	424.0	413.1	395.4	367.9	329.2	289.4	257.3	237.3	227.8	223.5	222.8
30°	434.8	423.3	404.1	359.0	306.5	259.7	228.4	214.3	207.6	203.3	202.5
32.5°	447.9	437.1	411.3	342.8	277.4	228.7	205.8	196.0	189.9	185.1	184.2
35°	467.0	455.3	413.1	319.5	245.5	204.3	189.3	179.2	170.9	164.7	164.1
37.5°	490.9	478.1	409.0	289.4	214.5	188.4	175.5	163.1	152.2	143.5	142.1
40°	525.4	506.2	397.4	254.7	191.7	176.2	162.0	147.9	134.4	124.3	122.3
42.5°	566.9	539.1	379.7	220.2	174.9	163.7	148.7	131.1	118.3	111.1	110.0
45°	619.7	573.3	355.2	190.0	158.5	151.3	134.2	118.1	110.1	104.8	104.0
47.5°	679.9	611.6	329.4	165.4	144.5	139.7	122.7	112.3	106.0	101.8	101.0
50°	753.9	654.9	302.1	145.3	130.4	125.7	117.2	109.1	104.0	100.8	100.1
52.5°	837.4	703.8	282.4	129.4	118.8	115.4	114.4	107.3	103.3	100.8	100.1
55°	927.3	753.5	261.1	116.0	108.7	109.7	112.5	107.5	104.7	101.8	100.7
57.5°	1017.3	804.9	237.4	104.7	100.7	105.4	111.2	107.9	105.5	102.7	101.6
60°	1088.5	837.4	200.7	95.3	94.4	100.7	108.0	105.3	102.2	102.3	102.1
62.5°	1121.7	835.7	160.2	86.9	88.1	94.4	103.0	101.2	98.7	102.1	102.3
65°	1103.0	794.0	124.7	79.2	81.3	87.8	97.8	99.2	100.1	106.6	107.4
67.5°	1024.8	713.0	96.6	72.5	75.1	83.3	98.3	108.0	109.2	116.0	115.9
69°	943.8	636.9	83.9	69.1	72.1	84.4	105.1	113.7	109.4	116.7	115.7
70°	875.9	576.8	77.1	66.7	70.7	86.4	109.6	113.6	108.1	114.4	112.6
72.5°	674.6	415.0	65.4	62.4	66.0	82.7	110.9	111.1	105.1	106.3	103.4
75°	462.7	262.2	57.1	56.5	58.9	74.5	106.7	106.1	97.2	95.5	93.0
77.5°	255.1	133.2	48.5	50.9	52.5	66.0	97.0	96.1	88.8	85.1	84.3
80°	98.4	58.3	41.0	45.2	46.3	57.2	85.0	84.3	78.1	73.4	72.1
82.5°	37.1	30.5	33.8	39.1	38.8	47.2	72.0	71.6	65.6	58.7	56.7
85°	17.2	18.3	26.8	32.3	29.8	35.0	57.6	58.4	51.1	43.0	43.0
87.5°	7.3	10.2	19.0	24.4	20.0	23.6	42.3	40.4	37.1	25.7	24.1
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)