

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: P348682

Luminaire Tested: **ARCH-N-PA1-20-830-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-20-830-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 420mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2710 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - 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

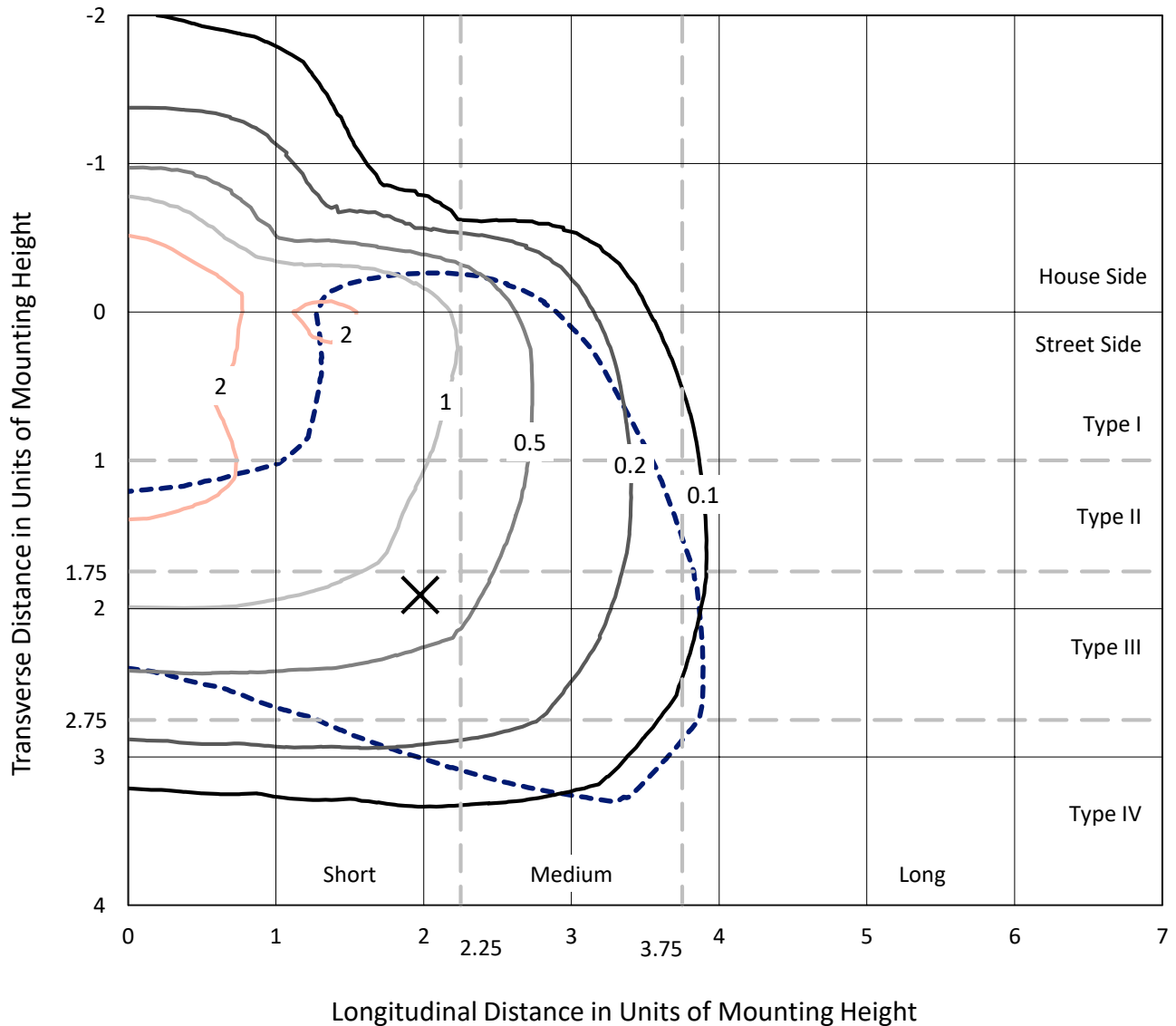


REPORT NUMBER: P348682

CATALOG NUMBER: ARCH-N-PA1-20-830-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

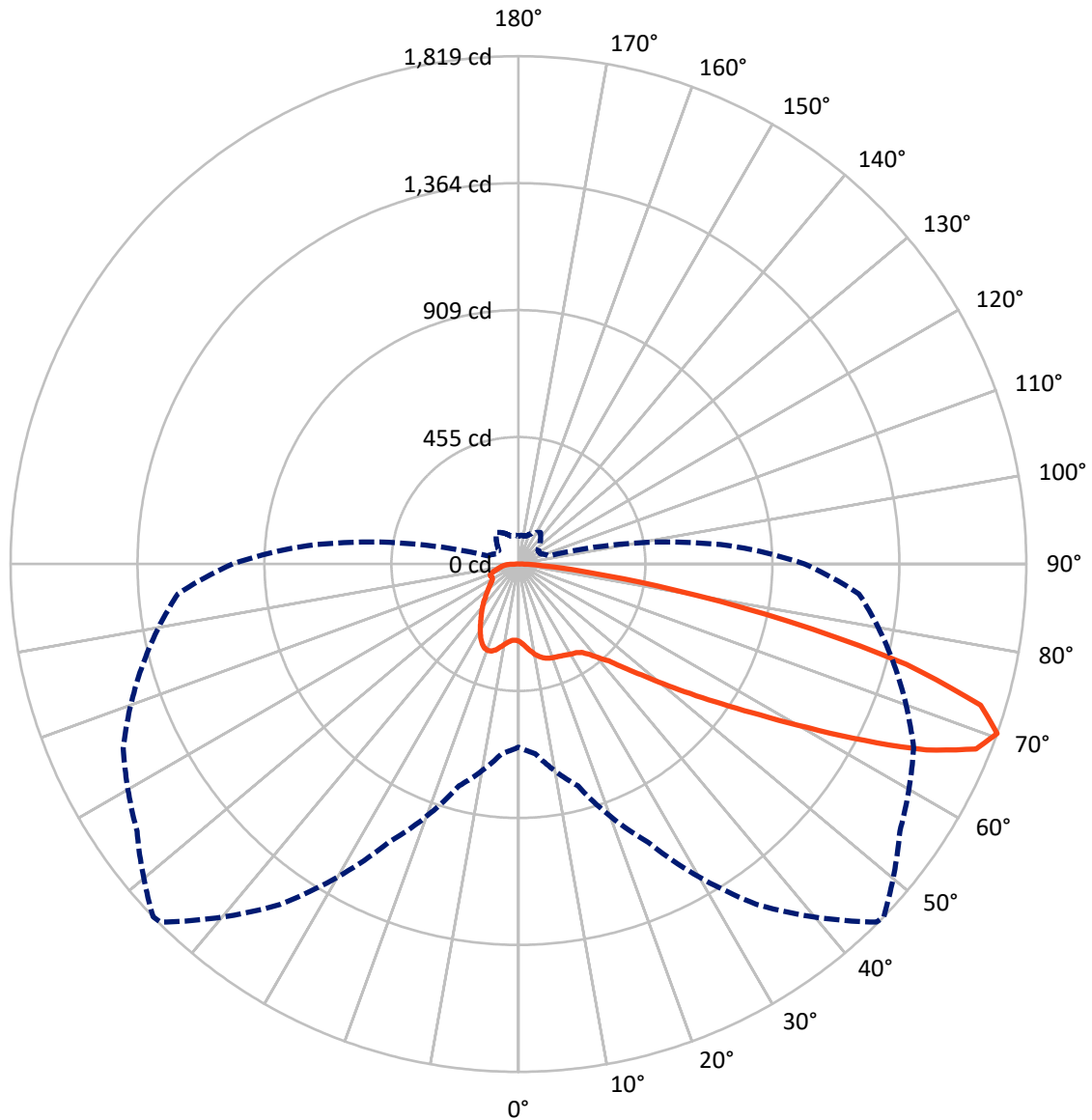


Based on 10 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P348682

CATALOG NUMBER: ARCH-N-PA1-20-830-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



REPORT NUMBER: P348682

CATALOG NUMBER: ARCH-N-PA1-20-830-U-T4W

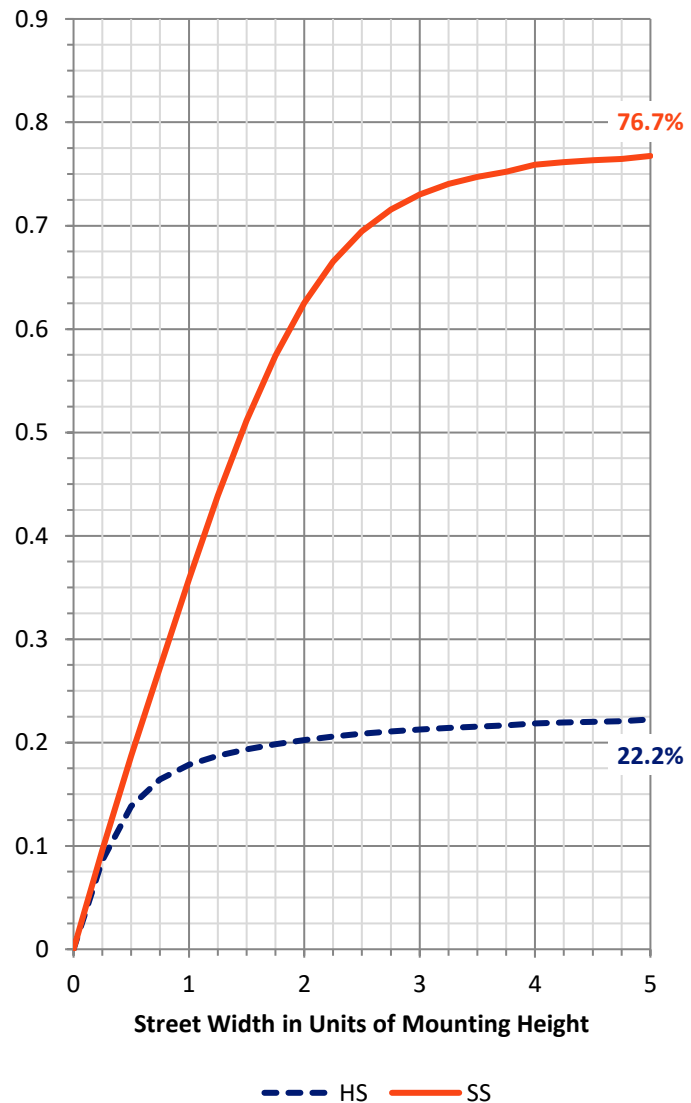
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	621.1	0.0	621.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	2088.9	0.0	2088.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	2710.0	0.0	2710.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.1	1.0
10°-20°	93.8	3.5
20°-30°	156.4	5.8
30°-40°	221.9	8.2
40°-50°	326.4	12.0
50°-60°	552.7	20.4
60°-70°	784.6	29.0
70°-80°	476.6	17.6
80°-90°	69.6	2.6
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°	2710.0	100.0
0°-180°	2710.0	100.0



REPORT NUMBER: P348682

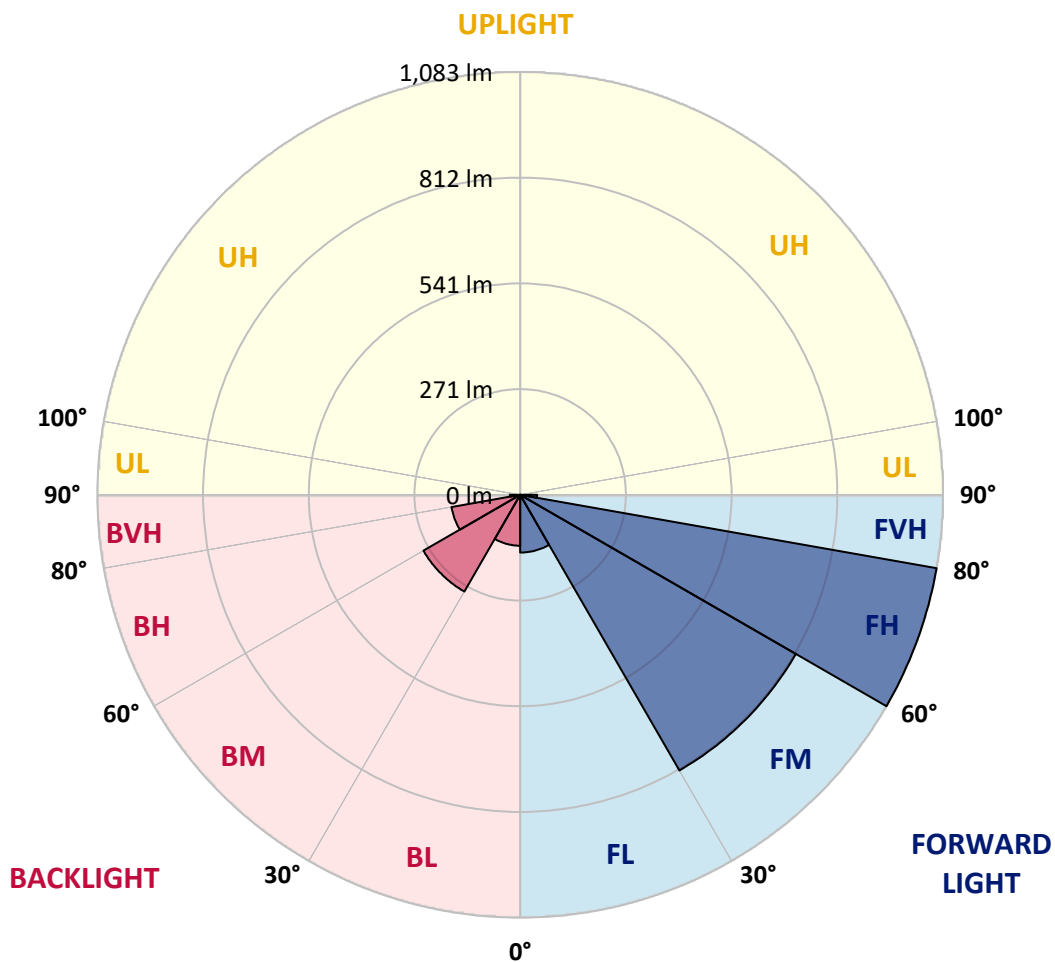
CATALOG NUMBER: ARCH-N-PA1-20-830-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	147.9	5.5			
FM	(30°-60°)	815.0	30.1			
FH	(60°-80°)	1082.6	39.9			G1/1800
FVH	(80°-90°)	43.3	1.6			G1/100
BL	(0°-30°)	130.4	4.8	B1/500		
BM	(30°-60°)	285.9	10.6	B1/1000		
BH	(60°-80°)	178.6	6.6	B1/500		G1/500
BVH	(80°-90°)	26.2	1.0			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 IV Short





REPORT NUMBER: P348682

CATALOG NUMBER: ARCH-N-PA1-20-830-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	276.1	276.1	276.1	276.1	276.1	276.1	276.1	276.1	276.1	276.1	276.1
2.5°	289.9	290.1	290.5	289.5	286.9	286.2	285.9	283.2	281.5	278.9	276.7
5°	313.1	313.3	312.7	310.1	304.4	300.1	299.7	293.6	288.1	282.1	277.7
7.5°	337.3	337.6	335.8	330.9	322.8	315.4	315.0	306.6	298.2	289.2	282.5
10°	358.7	357.6	354.7	347.9	338.3	329.2	328.9	320.1	310.4	299.6	290.7
12.5°	373.0	372.1	368.4	360.0	349.5	341.2	340.5	332.4	322.9	311.1	300.4
15°	380.9	381.5	376.5	367.1	356.9	349.8	349.2	343.4	335.0	323.0	310.8
17.5°	381.9	382.5	377.6	368.3	359.9	355.1	354.8	351.0	344.9	333.4	320.6
20°	376.0	376.4	372.4	364.7	359.2	357.7	357.6	355.9	351.4	341.2	328.8
22.5°	367.4	367.6	364.8	359.2	357.3	359.7	360.3	359.7	356.4	346.9	335.2
25°	365.2	365.0	362.1	356.4	358.0	362.9	363.7	364.0	361.8	353.4	343.3
27.5°	375.5	374.9	369.2	360.1	361.1	367.1	368.2	370.9	369.5	362.2	352.6
30°	405.3	404.2	392.6	374.2	369.2	372.3	373.7	377.9	378.2	372.1	364.9
32.5°	455.6	454.2	433.4	400.6	382.8	377.6	378.9	385.3	388.7	384.0	376.3
35°	519.1	517.5	490.2	445.4	405.7	387.7	388.6	393.7	400.6	393.9	383.7
37.5°	585.3	581.5	555.3	498.0	441.9	409.3	409.3	409.9	413.2	399.3	392.4
40°	651.1	647.3	623.6	560.0	488.8	443.3	441.2	426.8	424.2	412.2	409.9
42.5°	712.4	711.2	697.2	630.0	543.9	476.8	473.8	449.4	450.0	442.6	442.7
45°	777.5	777.5	766.1	700.7	608.1	530.6	527.6	491.7	497.3	493.9	502.1
47.5°	830.6	832.3	830.7	774.3	682.8	598.9	593.6	550.3	565.9	577.7	601.7
50°	884.9	887.5	887.7	855.1	773.0	680.2	674.1	628.1	662.9	696.7	743.9
52.5°	963.6	969.4	946.2	935.7	883.6	776.6	770.6	728.2	786.3	833.7	915.0
55°	1036.6	1031.5	1014.9	1021.4	1001.9	886.4	881.9	844.7	923.7	985.3	1090.9
57.5°	1076.1	1075.7	1092.4	1120.2	1129.5	1021.8	1018.0	981.9	1078.7	1125.0	1256.1
60°	1122.5	1123.1	1164.5	1227.6	1265.8	1190.4	1188.8	1161.3	1229.2	1255.4	1385.7
62.5°	1129.0	1140.6	1211.9	1320.6	1393.5	1387.4	1391.1	1323.0	1363.9	1359.4	1482.4
65°	1054.3	1069.7	1198.6	1348.7	1520.3	1602.9	1606.3	1485.6	1470.1	1448.4	1517.0
67.5°	901.3	924.1	1064.1	1287.6	1562.2	1762.1	1766.9	1611.6	1558.2	1478.5	1433.7
70°	655.9	681.2	822.2	1099.7	1487.6	1813.0	1818.5	1667.3	1561.5	1392.7	1223.9
72.5°	396.2	416.0	532.3	809.6	1255.6	1720.3	1730.0	1596.7	1425.6	1179.7	903.8
75°	174.0	187.0	257.4	466.5	898.9	1423.3	1435.5	1366.7	1158.4	857.3	534.2
77.5°	74.1	77.8	105.5	202.6	508.1	972.6	989.3	998.6	785.9	466.5	225.7
80°	46.2	47.7	59.7	91.7	237.8	546.3	564.2	587.5	390.3	171.5	78.8
82.5°	28.1	29.8	39.7	55.5	123.8	247.6	256.2	272.7	151.4	74.1	40.8
85°	16.9	18.1	24.3	35.1	70.5	97.4	97.3	107.6	71.3	47.7	21.5
87.5°	8.1	9.0	13.0	18.2	35.5	36.5	34.2	38.8	43.3	31.3	10.9
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: P348682

CATALOG NUMBER: ARCH-N-PA1-20-830-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	276.1	276.1	276.1	276.1	276.1	276.1	276.1	276.1	276.1	276.1	276.1
2.5°	275.9	275.5	274.3	273.4	273.2	272.7	272.2	272.5	272.8	272.9	272.9
5°	275.8	274.8	273.2	272.6	273.4	274.5	275.9	277.8	278.9	279.7	280.3
7.5°	280.3	278.3	276.6	276.2	277.9	280.8	284.0	287.9	290.6	292.4	292.8
10°	287.7	285.3	283.5	283.9	286.9	291.1	295.6	300.6	304.7	307.2	307.4
12.5°	296.2	293.9	292.2	293.8	298.7	303.9	308.6	312.9	316.6	319.1	319.1
15°	306.1	304.4	302.4	306.1	312.7	317.4	319.3	321.4	323.5	325.3	325.0
17.5°	315.5	313.9	312.9	317.2	324.1	326.3	325.0	323.4	323.4	324.4	324.6
20°	323.7	322.3	322.9	327.1	330.7	328.5	323.7	318.7	316.6	317.2	317.7
22.5°	330.8	330.2	332.1	334.1	331.5	323.7	314.8	308.0	305.5	305.3	305.5
25°	339.2	339.1	341.5	338.0	326.5	312.1	300.1	293.5	292.1	293.3	295.1
27.5°	349.5	350.6	351.8	338.9	316.3	294.6	282.4	277.9	279.2	281.9	283.7
30°	362.8	365.6	363.0	336.6	301.6	274.5	262.9	261.6	265.4	269.2	271.1
32.5°	375.7	380.1	373.8	330.5	282.7	253.3	244.3	243.9	248.6	252.3	254.9
35°	386.1	394.7	381.8	318.6	260.8	233.7	227.1	224.6	226.3	230.7	233.6
37.5°	399.6	414.0	387.4	300.3	237.1	217.6	209.9	204.1	202.6	204.4	205.9
40°	424.4	443.4	390.0	274.8	213.9	201.4	193.6	185.2	179.4	175.1	175.2
42.5°	464.8	481.7	388.3	243.8	192.4	185.7	176.9	167.1	157.7	148.0	147.3
45°	530.5	538.7	383.3	211.0	173.6	169.2	160.9	151.2	138.6	127.6	126.6
47.5°	635.6	617.5	375.5	182.3	157.0	155.2	147.6	136.3	123.0	114.2	113.4
50°	778.9	731.3	371.7	159.5	142.4	142.9	136.7	124.8	112.2	105.7	105.0
52.5°	950.2	863.8	379.0	141.9	130.6	132.5	127.9	116.8	106.2	101.1	100.3
55°	1128.0	1001.1	386.9	129.1	119.5	123.3	121.7	112.5	102.9	98.2	97.6
57.5°	1280.2	1103.5	371.2	118.7	109.5	115.5	116.9	109.8	101.3	97.0	96.3
60°	1376.0	1144.8	329.8	109.0	101.6	109.3	114.1	109.1	101.9	101.6	101.0
62.5°	1421.5	1141.2	267.7	101.3	96.7	106.6	116.1	113.2	109.3	112.7	113.0
65°	1401.1	1086.7	199.4	96.2	93.2	107.6	122.2	121.1	111.5	114.8	115.3
67.5°	1266.8	956.6	147.6	91.7	89.3	110.5	133.4	123.7	107.3	109.7	108.2
70°	1023.9	758.4	113.9	86.7	85.3	110.1	138.4	122.1	102.8	103.3	99.3
72.5°	706.1	517.1	92.7	82.1	79.6	100.3	134.8	118.2	99.0	94.7	89.4
75°	384.0	277.6	78.7	77.3	69.5	88.1	128.4	115.5	95.5	89.9	86.9
77.5°	151.1	115.2	68.4	70.7	60.7	77.8	121.1	110.2	90.8	83.4	81.9
80°	61.7	58.8	56.7	61.1	52.2	68.1	112.4	104.0	85.1	77.3	74.4
82.5°	35.0	36.5	44.1	48.2	42.4	62.7	108.2	99.0	78.4	69.3	65.8
85°	17.9	21.4	30.7	34.6	31.2	53.3	99.7	86.6	62.9	53.0	53.3
87.5°	8.6	12.0	19.4	21.7	20.2	38.6	74.5	62.8	49.0	38.8	37.6
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)