

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: P348662

Luminaire Tested: **ARCH-N-PA1-30-750-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348662
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-PA1-30-750-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 560mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4386 lumens
Efficiency: N/A
Efficacy: 141.5 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): 31
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

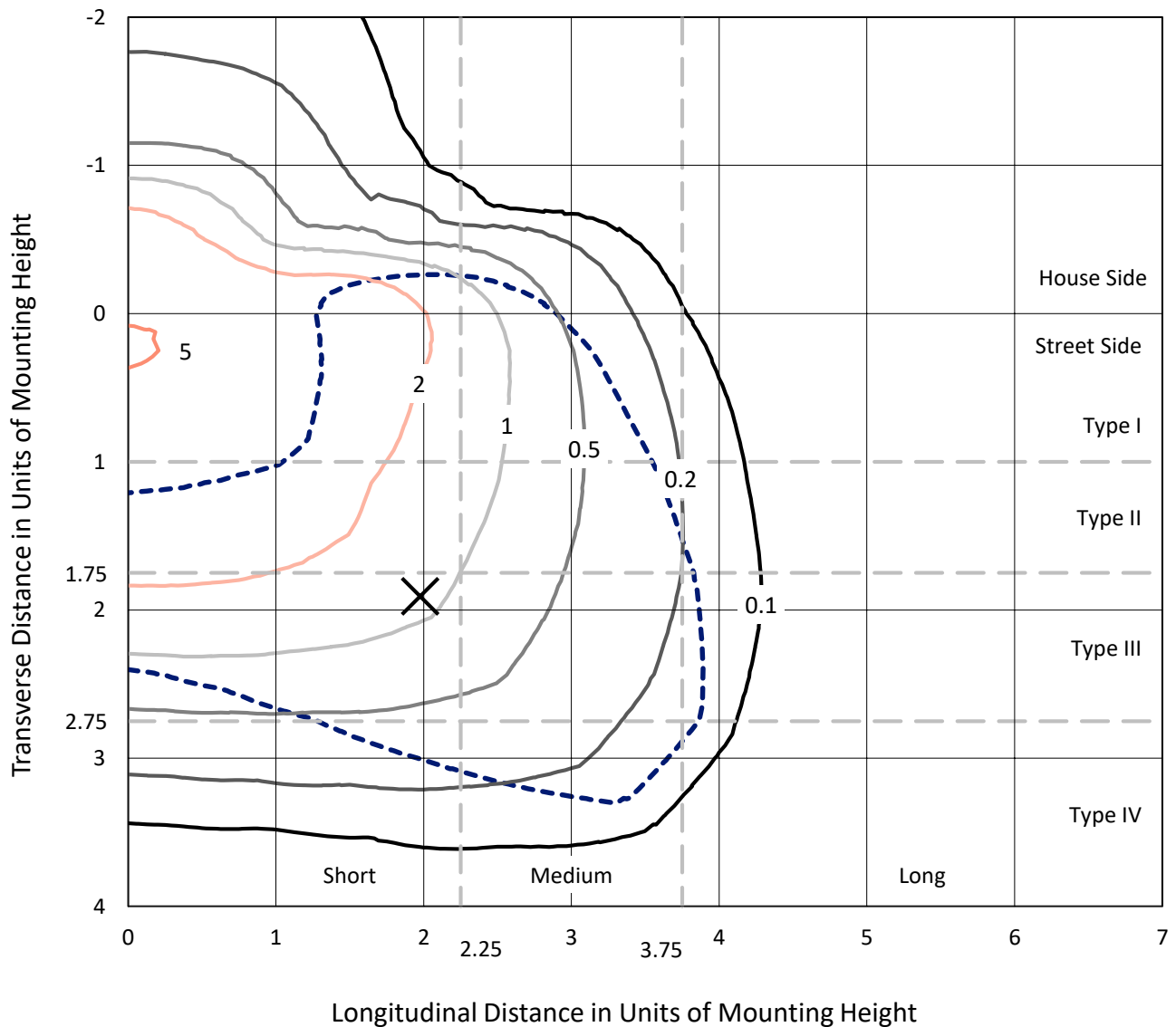


REPORT NUMBER: P348662

CATALOG NUMBER: ARCH-N-PA1-30-750-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

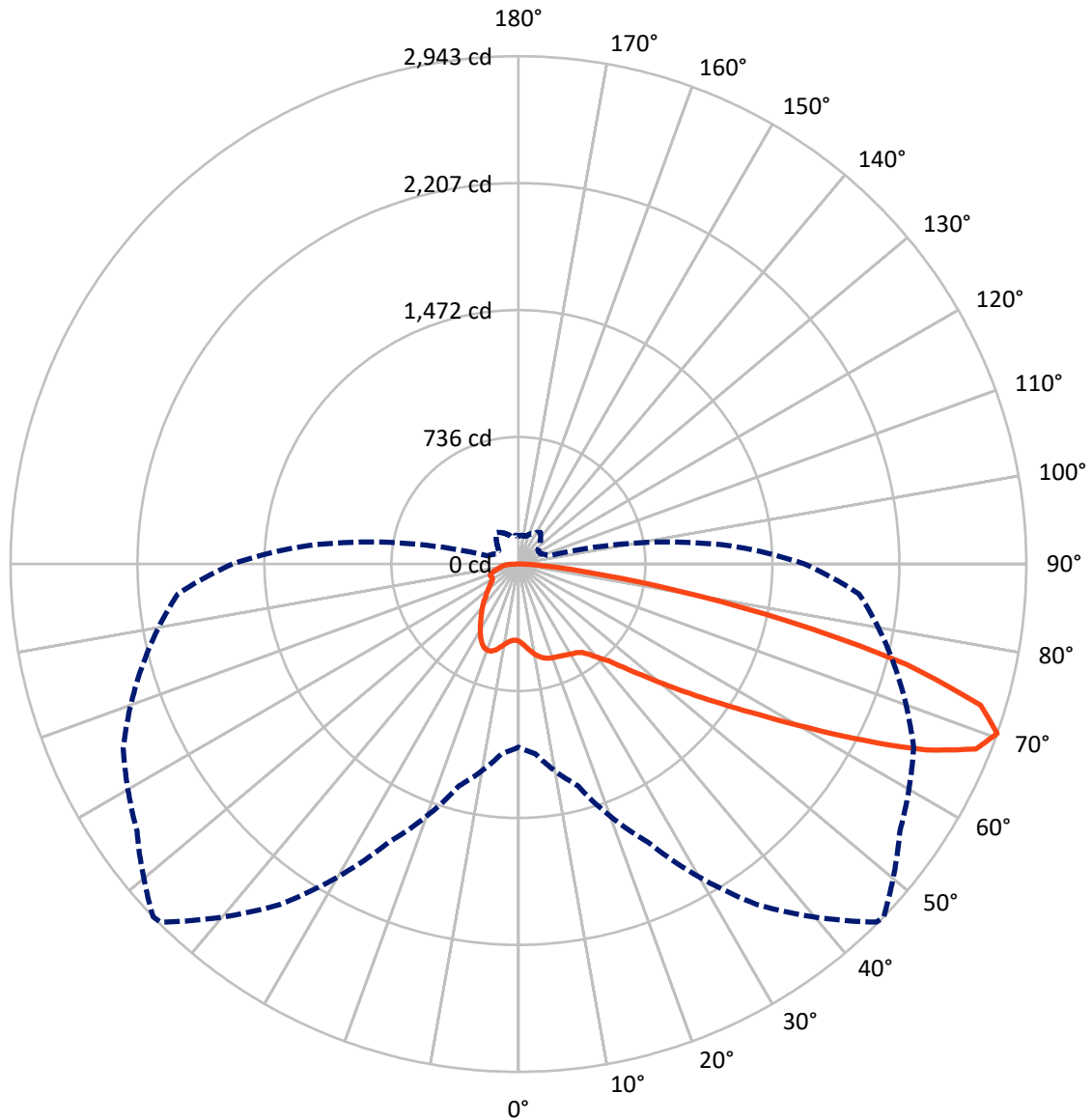
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P348662
CATALOG NUMBER: ARCH-N-PA1-30-750-U-T4W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P348662

CATALOG NUMBER: ARCH-N-PA1-30-750-U-T4W

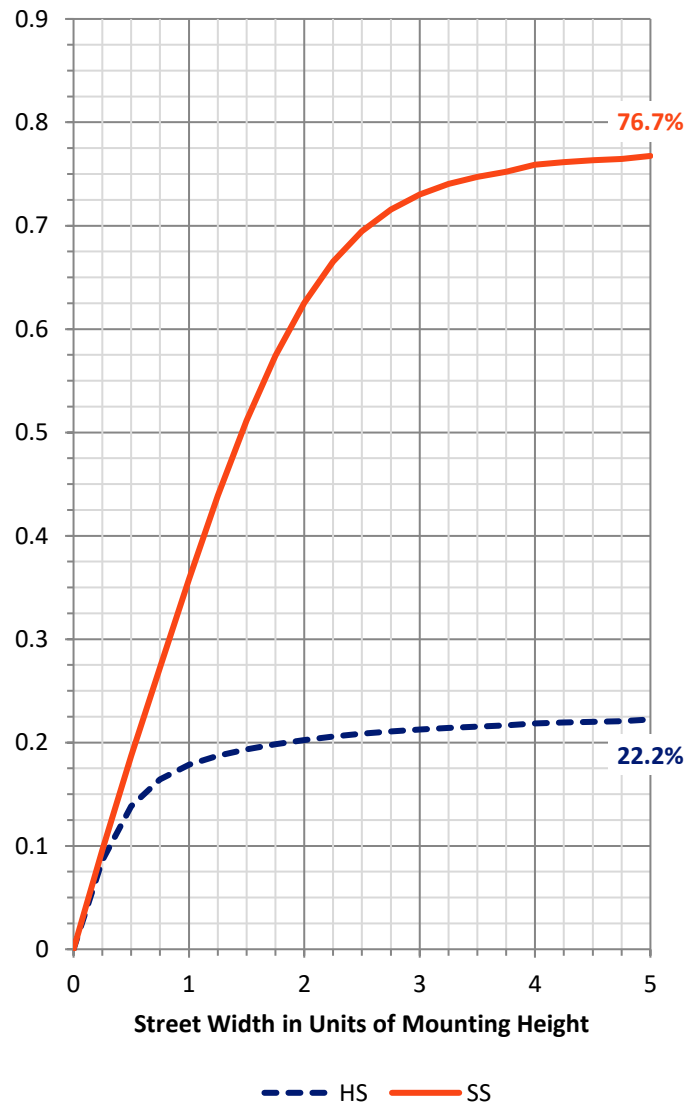
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1005.3	0.0	1005.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	3380.7	0.0	3380.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	4386.0	0.0	4386.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.6	1.0
10°-20°	151.8	3.5
20°-30°	253.1	5.8
30°-40°	359.1	8.2
40°-50°	528.2	12.0
50°-60°	894.5	20.4
60°-70°	1269.8	29.0
70°-80°	771.4	17.6
80°-90°	112.6	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°	4386.0	100.0
0°-180°	4386.0	100.0



REPORT NUMBER: P348662

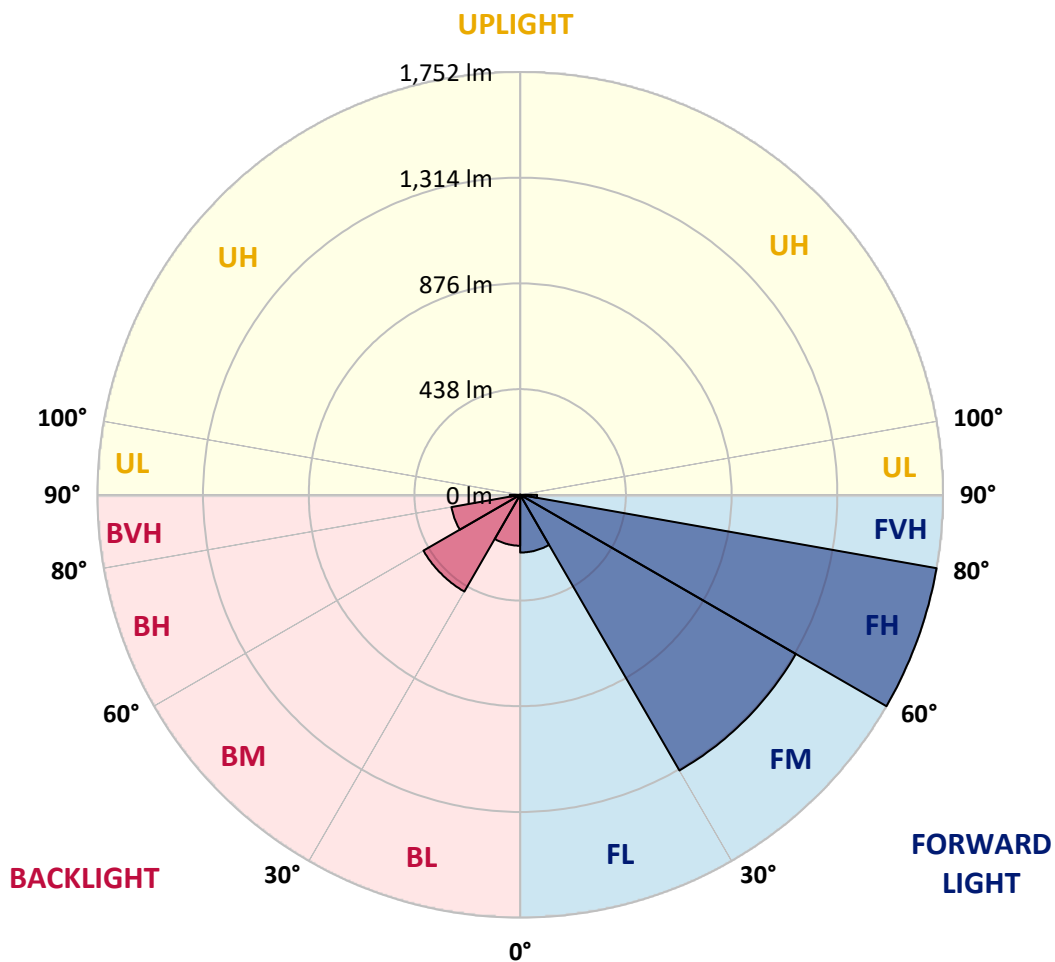
CATALOG NUMBER: ARCH-N-PA1-30-750-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	239.3	5.5			
FM	(30°-60°)	1319.1	30.1			
FH	(60°-80°)	1752.2	39.9			G1/1800
FVH	(80°-90°)	70.1	1.6			G1/100
BL	(0°-30°)	211.1	4.8	B1/500		
BM	(30°-60°)	462.7	10.6	B1/1000		
BH	(60°-80°)	289.0	6.6	B1/500		G1/500
BVH	(80°-90°)	42.5	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: P348662

CATALOG NUMBER: ARCH-N-PA1-30-750-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8
2.5°	469.2	469.5	470.1	468.6	464.4	463.2	462.8	458.4	455.6	451.4	447.7
5°	506.7	507.0	506.1	501.9	492.6	485.7	485.1	475.2	466.2	456.6	449.4
7.5°	545.9	546.4	543.5	535.6	522.5	510.5	509.7	496.2	482.6	468.0	457.2
10°	580.6	578.8	574.1	563.0	547.6	532.9	532.3	518.1	502.4	484.8	470.4
12.5°	603.7	602.2	596.2	582.7	565.7	552.2	551.0	538.0	522.6	503.4	486.2
15°	616.5	617.5	609.4	594.1	577.6	566.2	565.1	555.8	542.2	522.8	503.0
17.5°	618.1	619.0	611.2	596.0	582.5	574.7	574.3	568.1	558.2	539.6	518.9
20°	608.5	609.1	602.7	590.2	581.3	578.9	578.8	576.1	568.7	552.2	532.1
22.5°	594.5	595.0	590.3	581.3	578.3	582.1	583.1	582.1	576.8	561.4	542.5
25°	591.1	590.8	586.0	576.8	579.4	587.3	588.7	589.1	585.5	572.0	555.7
27.5°	607.8	606.7	597.5	582.8	584.5	594.1	595.9	600.2	598.0	586.1	570.7
30°	655.9	654.1	635.4	605.7	597.5	602.5	604.8	611.7	612.1	602.2	590.6
32.5°	737.3	735.0	701.4	648.3	619.6	611.1	613.2	623.5	629.1	621.4	609.0
35°	840.1	837.6	793.4	720.8	656.5	627.4	628.9	637.2	648.3	637.5	621.0
37.5°	947.3	941.1	898.6	806.0	715.2	662.4	662.4	663.4	668.7	646.2	635.1
40°	1053.9	1047.7	1009.3	906.3	791.2	717.5	714.0	690.8	686.6	667.2	663.4
42.5°	1152.9	1151.1	1128.5	1019.6	880.3	771.7	766.9	727.4	728.3	716.3	716.4
45°	1258.3	1258.3	1239.8	1134.0	984.2	858.7	853.9	795.8	804.8	799.3	812.6
47.5°	1344.3	1347.0	1344.4	1253.2	1105.0	969.3	960.6	890.7	915.9	935.0	973.8
50°	1432.1	1436.3	1436.8	1383.9	1251.1	1100.8	1090.9	1016.6	1072.9	1127.6	1204.0
52.5°	1559.5	1569.0	1531.3	1514.4	1430.0	1256.9	1247.2	1178.6	1272.5	1349.2	1480.9
55°	1677.7	1669.4	1642.5	1653.1	1621.5	1434.7	1427.3	1367.1	1495.0	1594.7	1765.6
57.5°	1741.6	1741.0	1768.0	1813.1	1828.1	1653.8	1647.6	1589.1	1745.8	1820.7	2033.0
60°	1816.7	1817.7	1884.7	1986.9	2048.7	1926.7	1924.0	1879.6	1989.4	2031.8	2242.6
62.5°	1827.2	1846.1	1961.4	2137.3	2255.3	2245.5	2251.5	2141.2	2207.4	2200.2	2399.2
65°	1706.3	1731.3	1939.9	2182.8	2460.6	2594.2	2599.7	2404.3	2379.2	2344.1	2455.2
67.5°	1458.7	1495.6	1722.2	2083.8	2528.3	2851.9	2859.7	2608.3	2521.8	2392.9	2320.4
70°	1061.5	1102.5	1330.6	1779.7	2407.6	2934.3	2943.2	2698.5	2527.2	2254.1	1980.9
72.5°	641.2	673.3	861.4	1310.2	2032.1	2784.2	2800.0	2584.1	2307.3	1909.3	1462.7
75°	281.6	302.6	416.5	755.0	1454.8	2303.6	2323.2	2211.9	1874.7	1387.5	864.6
77.5°	119.9	125.9	170.8	328.0	822.4	1574.1	1601.1	1616.1	1271.9	755.0	365.3
80°	74.7	77.2	96.7	148.4	384.9	884.1	913.2	950.9	631.6	277.5	127.6
82.5°	45.5	48.2	64.2	89.8	200.4	400.8	414.7	441.3	245.1	119.9	66.0
85°	27.3	29.3	39.3	56.7	114.1	157.6	157.5	174.1	115.4	77.2	34.8
87.5°	13.1	14.6	21.0	29.4	57.5	59.1	55.4	62.7	70.1	50.6	17.6
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: P348662

CATALOG NUMBER: ARCH-N-PA1-30-750-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8	446.8
2.5°	446.5	445.9	444.0	442.5	442.2	441.3	440.5	441.0	441.6	441.7	441.7
5°	446.4	444.7	442.2	441.1	442.5	444.3	446.5	449.5	451.4	452.7	453.6
7.5°	453.6	450.4	447.6	447.0	449.7	454.5	459.6	465.9	470.3	473.3	473.9
10°	465.6	461.7	458.9	459.5	464.3	471.2	478.4	486.5	493.1	497.1	497.4
12.5°	479.4	475.7	473.0	475.5	483.5	491.9	499.4	506.4	512.4	516.5	516.5
15°	495.3	492.6	489.5	495.3	506.1	513.6	516.8	520.2	523.5	526.6	526.0
17.5°	510.6	508.1	506.4	513.3	524.6	528.1	526.0	523.4	523.4	525.0	525.3
20°	523.8	521.6	522.6	529.4	535.3	531.7	523.8	515.7	512.4	513.3	514.2
22.5°	535.4	534.4	537.5	540.7	536.5	523.8	509.4	498.5	494.4	494.1	494.4
25°	548.9	548.8	552.7	547.0	528.4	505.1	485.7	475.1	472.8	474.6	477.6
27.5°	565.7	567.4	569.3	548.5	511.8	476.7	457.1	449.7	452.0	456.3	459.2
30°	587.2	591.7	587.5	544.7	488.1	444.3	425.5	423.4	429.6	435.7	438.7
32.5°	608.1	615.1	604.9	535.0	457.5	409.9	395.4	394.8	402.3	408.3	412.5
35°	624.9	638.8	618.0	515.6	422.1	378.3	367.6	363.5	366.2	373.3	378.1
37.5°	646.8	670.0	627.0	486.0	383.7	352.1	339.7	330.4	328.0	330.8	333.2
40°	686.9	717.6	631.2	444.7	346.1	326.0	313.4	299.7	290.3	283.4	283.5
42.5°	752.3	779.6	628.5	394.6	311.5	300.5	286.2	270.5	255.2	239.6	238.4
45°	858.6	871.8	620.4	341.5	281.0	273.8	260.4	244.7	224.2	206.5	204.9
47.5°	1028.6	999.4	607.8	295.1	254.1	251.1	238.8	220.6	199.0	184.8	183.6
50°	1260.5	1183.5	601.6	258.2	230.4	231.3	221.2	202.0	181.6	171.1	169.9
52.5°	1537.9	1398.0	613.5	229.7	211.3	214.5	207.0	189.0	171.9	163.6	162.4
55°	1825.7	1620.2	626.2	208.9	193.3	199.5	196.9	182.1	166.6	159.0	157.9
57.5°	2072.0	1786.0	600.7	192.1	177.3	186.9	189.1	177.7	163.9	157.0	155.8
60°	2227.0	1852.8	533.8	176.4	164.5	176.8	184.6	176.5	165.0	164.4	163.5
62.5°	2300.6	1847.0	433.3	163.9	156.6	172.5	187.9	183.3	177.0	182.4	182.8
65°	2267.6	1758.7	322.7	155.7	150.9	174.1	197.8	196.0	180.4	185.8	186.6
67.5°	2050.2	1548.1	239.0	148.4	144.5	178.8	215.8	200.2	173.7	177.6	175.2
70°	1657.1	1227.4	184.3	140.3	138.1	178.2	223.9	197.7	166.3	167.2	160.8
72.5°	1142.7	837.0	149.9	132.8	128.8	162.4	218.2	191.4	160.2	153.3	144.7
75°	621.4	449.2	127.4	125.0	112.4	142.6	207.7	186.9	154.6	145.4	140.6
77.5°	244.5	186.4	110.6	114.4	98.3	125.9	196.0	178.3	146.9	134.9	132.5
80°	99.8	95.2	91.7	98.9	84.5	110.2	181.9	168.3	137.8	125.2	120.4
82.5°	56.6	59.1	71.3	78.1	68.6	101.5	175.2	160.2	126.8	112.1	106.4
85°	29.0	34.7	49.7	56.0	50.4	86.3	161.4	140.2	101.8	85.9	86.3
87.5°	14.0	19.4	31.4	35.1	32.7	62.4	120.5	101.6	79.3	62.7	60.8
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)