

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: P348620

Luminaire Tested: **ARCH-N-PA1-30-827-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348620
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-PA1-30-827-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 560mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3225 lumens
Efficiency: N/A
Efficacy: 104.0 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): 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

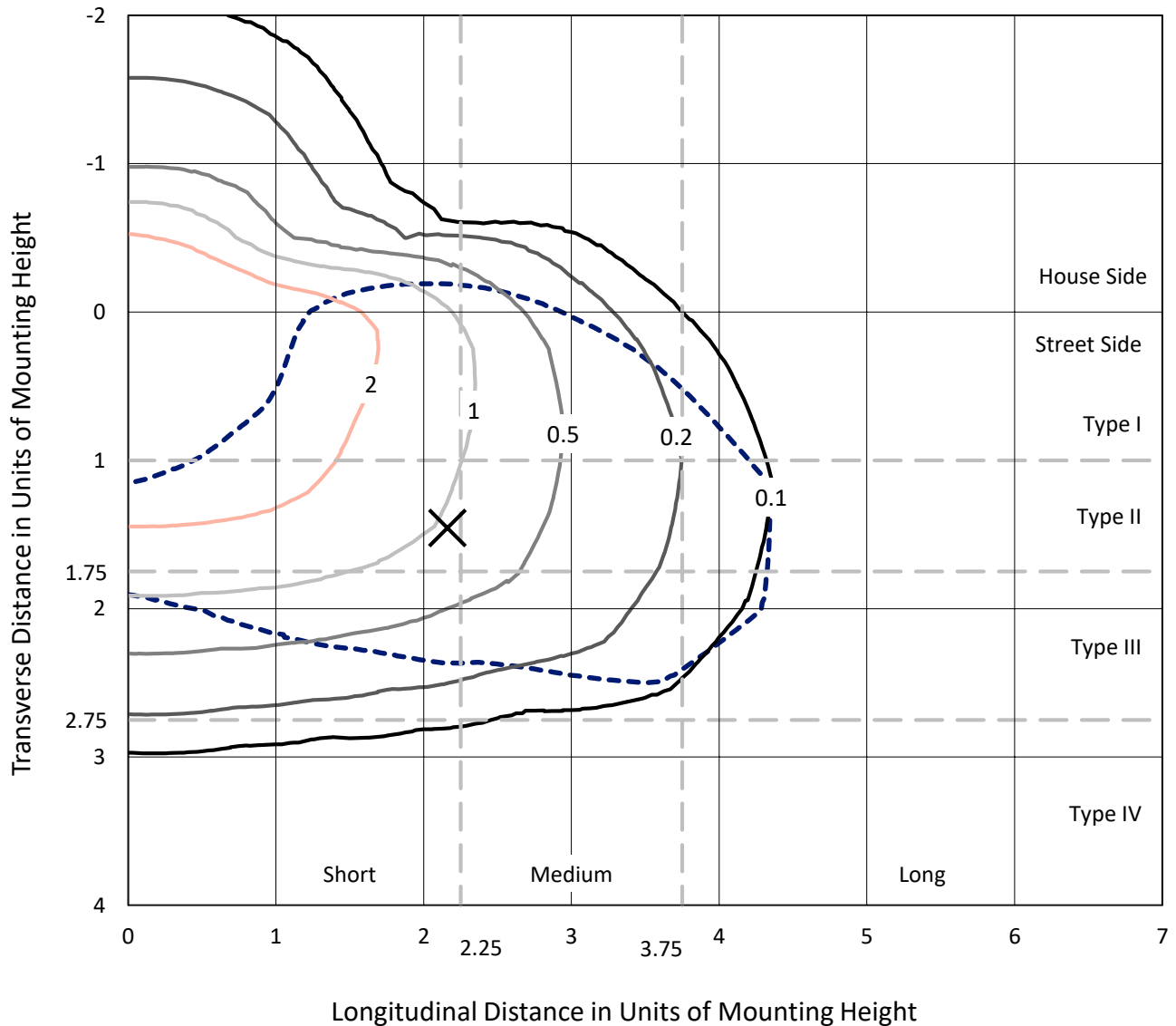


REPORT NUMBER: P348620

CATALOG NUMBER: ARCH-N-PA1-30-827-U-T3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

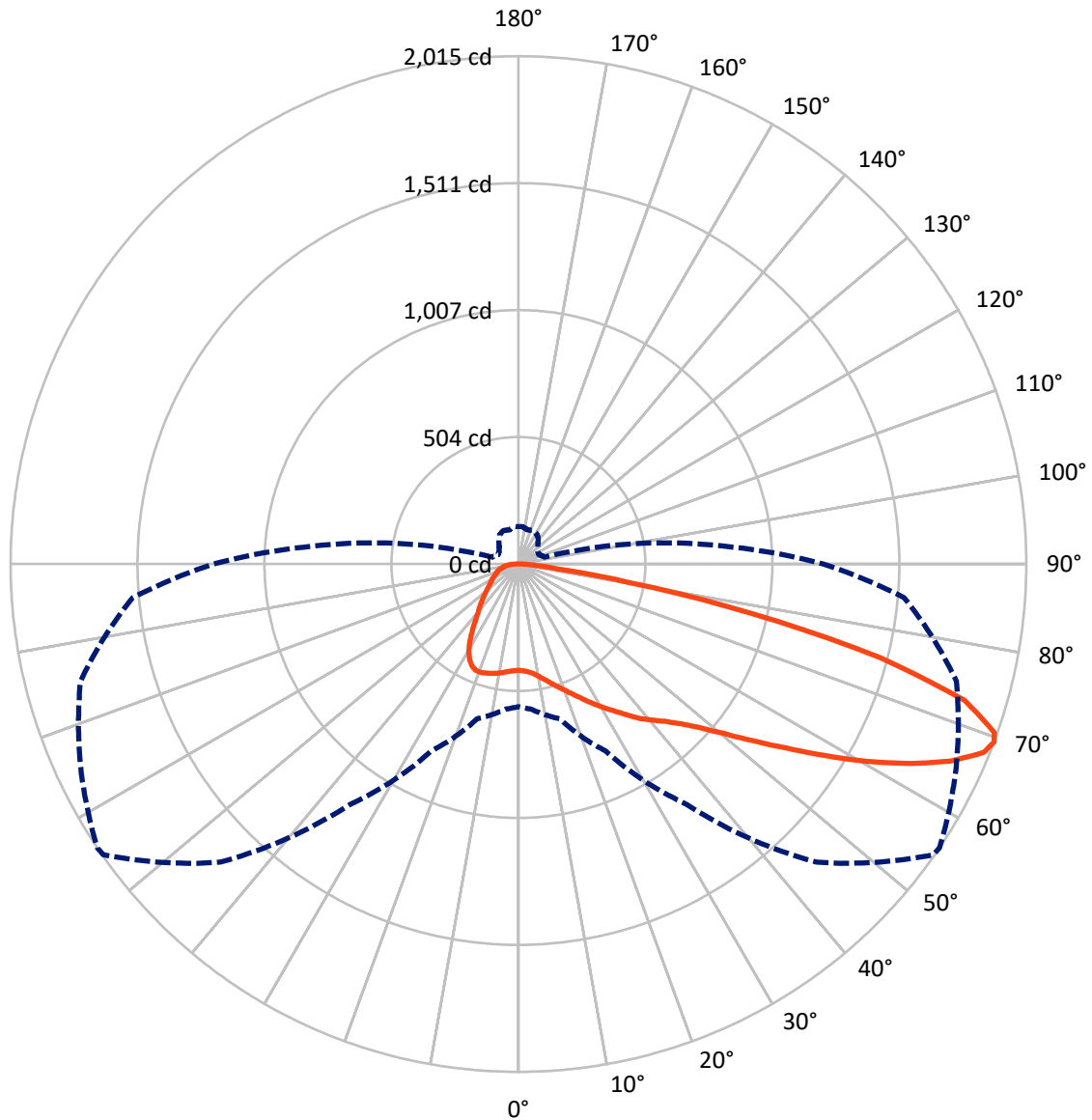


Based on 10 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - Semi-Cutoff

REPORT NUMBER: P348620

CATALOG NUMBER: ARCH-N-PA1-30-827-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P348620

CATALOG NUMBER: ARCH-N-PA1-30-827-U-T3

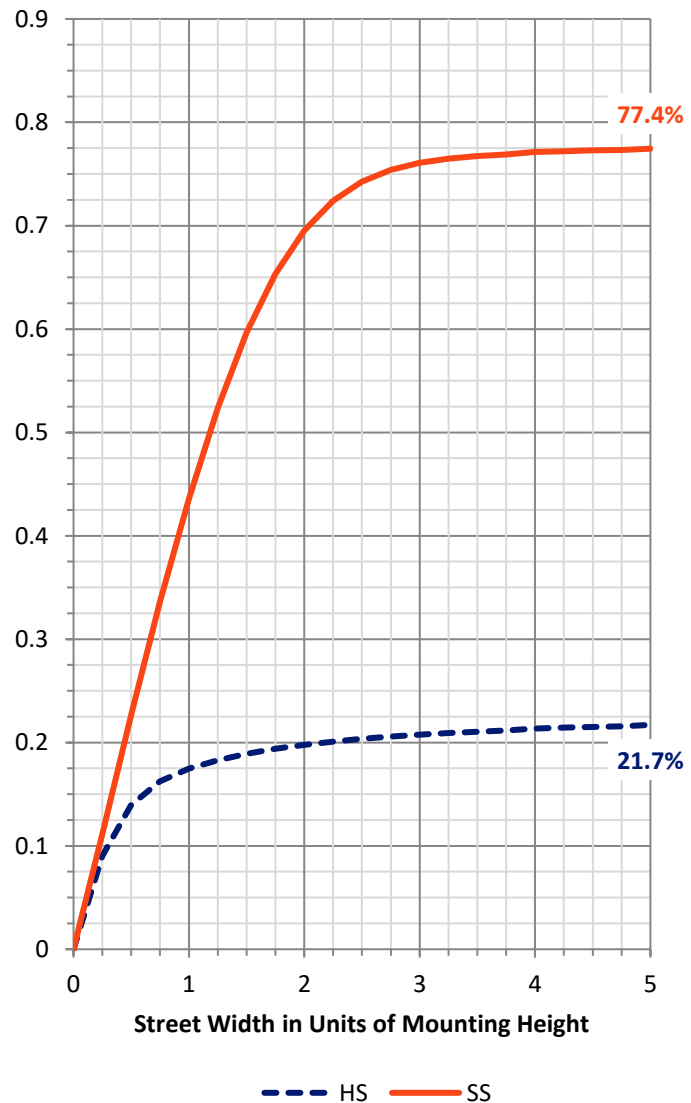
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	718.2	0.0	718.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	2506.8	0.0	2506.8
	% Fixture	77.7	0.0	77.7
Total	Lumens	3225.0	0.0	3225.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.4	1.3
10°-20°	133.2	4.1
20°-30°	232.4	7.2
30°-40°	333.9	10.4
40°-50°	462.1	14.3
50°-60°	677.0	21.0
60°-70°	825.4	25.6
70°-80°	456.3	14.2
80°-90°	63.2	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°	3225.0	100.0
0°-180°	3225.0	100.0



REPORT NUMBER: P348620

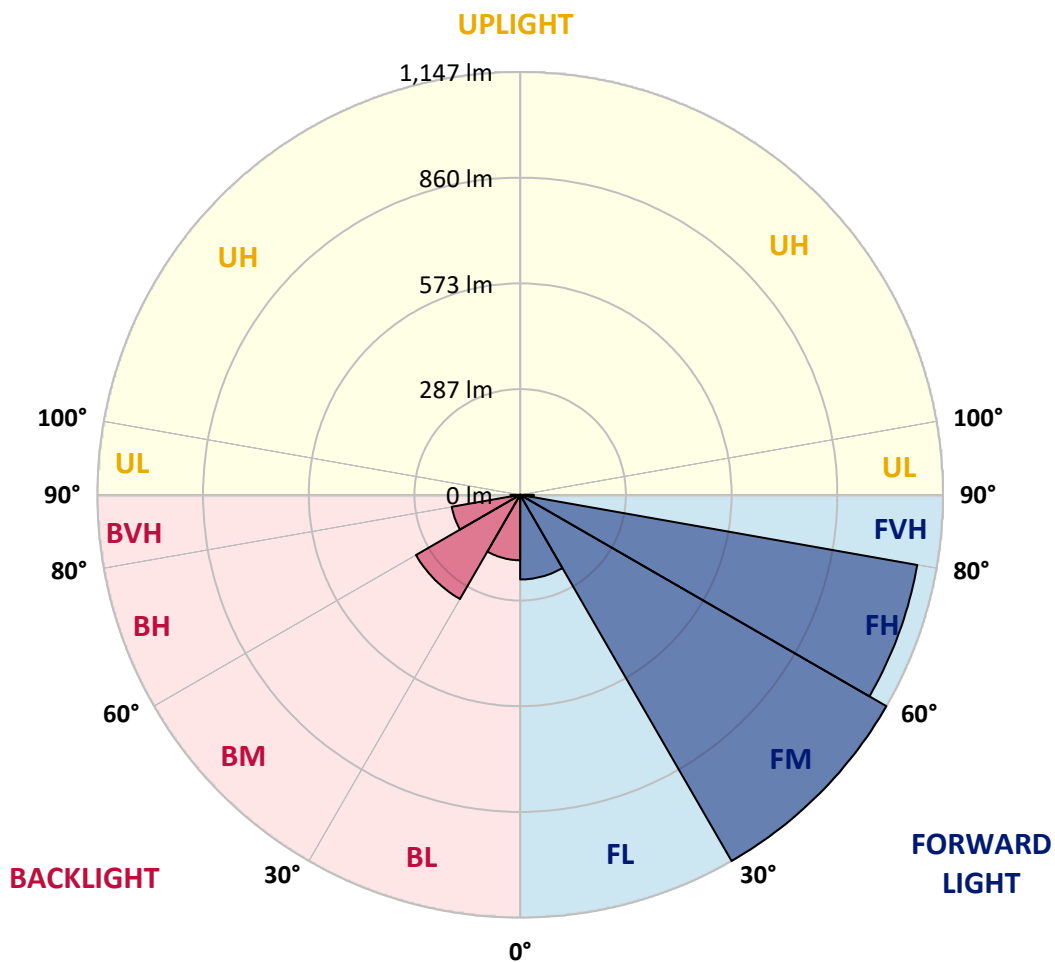
CATALOG NUMBER: ARCH-N-PA1-30-827-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	229.5	7.1			
FM	(30°-60°)	1146.6	35.6			
FH	(60°-80°)	1093.4	33.9			G1/1800
FVH	(80°-90°)	37.2	1.2			G1/100
BL	(0°-30°)	177.5	5.5	B1/500		
BM	(30°-60°)	326.4	10.1	B1/1000		
BH	(60°-80°)	188.3	5.8	B1/500		G1/500
BVH	(80°-90°)	26.0	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: P348620

CATALOG NUMBER: ARCH-N-PA1-30-827-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	421.6	421.6	421.6	421.6	421.6	421.6	421.6	421.6	421.6	421.6	421.6
2.5°	424.3	424.7	424.4	425.3	424.3	425.0	424.4	424.4	424.1	423.1	422.0
5°	431.0	431.8	431.3	432.2	431.0	431.2	430.2	430.2	429.2	427.1	424.8
7.5°	441.4	442.4	442.0	442.8	441.2	441.2	439.8	439.7	437.7	434.3	431.7
10°	453.8	455.2	454.7	456.1	454.7	455.2	453.8	453.8	451.2	446.3	443.1
12.5°	471.9	473.6	472.4	472.3	471.7	472.6	471.5	471.3	468.8	462.2	457.7
15°	496.2	497.9	495.4	495.2	492.1	491.7	491.7	491.4	489.8	481.8	474.5
17.5°	524.1	524.6	522.4	518.8	514.8	512.3	511.9	512.8	512.8	503.5	491.8
20°	551.4	552.4	550.6	546.6	541.5	537.7	535.1	536.8	536.7	525.6	509.1
22.5°	581.2	583.5	580.8	575.7	569.7	565.5	560.8	562.4	562.5	548.8	525.9
25°	619.7	617.6	615.9	608.7	600.2	595.8	591.5	593.0	592.6	573.8	543.4
27.5°	653.8	654.3	652.0	644.4	634.5	624.9	624.7	625.7	624.0	599.8	559.8
30°	693.5	693.7	690.6	683.7	672.9	660.6	657.7	659.4	655.8	624.5	577.2
32.5°	732.9	734.0	730.6	722.3	713.6	698.6	692.8	693.9	685.0	649.7	595.0
35°	767.5	769.0	767.9	762.4	752.9	740.0	733.1	732.5	721.5	680.6	618.7
37.5°	802.7	804.1	802.9	798.2	794.5	780.8	777.1	777.1	758.0	712.1	648.8
40°	838.9	841.1	839.7	833.2	830.0	823.8	815.0	812.9	792.2	750.0	697.9
42.5°	872.6	875.5	881.2	877.5	870.9	871.8	854.1	853.0	837.9	806.0	759.6
45°	920.3	924.6	934.3	931.5	930.1	925.2	904.2	903.2	897.5	881.3	836.1
47.5°	972.4	978.2	995.9	996.4	1010.8	1001.6	973.0	969.6	970.9	971.6	929.6
50°	1020.4	1026.8	1055.8	1069.4	1103.2	1105.2	1059.5	1056.4	1061.7	1077.0	1038.4
52.5°	1058.8	1066.8	1103.0	1145.2	1203.1	1219.5	1166.1	1163.8	1167.6	1194.1	1161.5
55°	1086.9	1095.5	1135.0	1211.9	1304.3	1333.3	1288.7	1286.5	1289.0	1322.6	1295.4
57.5°	1093.4	1095.5	1152.8	1256.8	1389.7	1459.4	1438.8	1434.4	1422.4	1451.7	1443.2
60°	1062.7	1071.1	1138.1	1272.5	1455.8	1583.7	1595.7	1590.2	1556.5	1580.5	1573.6
62.5°	1000.2	1015.3	1083.3	1248.5	1481.7	1685.3	1749.6	1742.9	1684.9	1700.5	1667.4
65°	898.2	904.7	976.1	1165.8	1448.8	1750.3	1886.8	1883.5	1810.5	1786.1	1684.7
67.5°	715.8	727.9	788.6	992.8	1314.3	1742.6	1992.9	1992.6	1892.5	1817.9	1623.3
69°	565.5	578.0	635.8	817.8	1163.0	1672.5	2010.7	2014.6	1915.6	1798.6	1535.5
70°	450.8	465.4	505.1	688.8	1028.7	1580.0	1995.9	2002.9	1911.1	1766.7	1454.5
72.5°	191.9	203.6	231.9	355.1	626.9	1179.9	1824.9	1851.4	1808.1	1616.9	1202.1
75°	83.8	87.4	100.2	144.8	278.3	642.2	1429.6	1478.5	1546.1	1366.7	895.5
77.5°	61.3	62.9	69.9	85.0	124.9	242.5	919.3	947.8	1115.0	994.6	549.3
80°	47.4	48.6	54.0	62.4	81.5	98.1	419.3	443.7	626.9	510.8	228.8
82.5°	37.8	38.6	42.3	46.0	56.3	59.4	139.2	154.4	231.4	141.1	60.5
85°	35.1	36.0	37.3	33.6	36.1	34.9	60.2	63.0	69.9	55.4	25.3
87.5°	15.9	18.8	37.0	26.1	19.2	15.3	24.7	25.8	29.0	29.1	11.2
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: P348620

CATALOG NUMBER: ARCH-N-PA1-30-827-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	421.6	421.6	421.6	421.6	421.6	421.6	421.6	421.6	421.6	421.6	421.6
2.5°	422.6	422.3	422.8	421.5	423.2	423.1	422.5	422.7	423.8	423.7	423.8
5°	425.2	425.0	425.6	424.6	426.6	427.3	427.4	428.4	429.6	430.0	430.0
7.5°	431.6	431.6	432.0	430.6	432.0	431.8	431.3	432.3	433.5	433.6	433.5
10°	442.7	442.8	442.3	438.8	437.7	434.7	432.0	432.1	433.6	434.8	435.2
12.5°	456.7	456.3	453.8	447.5	442.8	436.7	433.8	433.7	435.3	436.3	436.6
15°	472.7	471.5	465.2	454.8	446.6	440.6	436.0	434.8	434.0	432.8	433.0
17.5°	487.8	485.1	474.5	460.2	451.5	443.5	434.5	427.3	422.3	419.4	418.5
20°	503.2	497.7	482.5	465.2	454.2	439.6	422.3	407.6	398.5	394.3	393.5
22.5°	517.2	508.4	489.9	470.4	452.1	426.5	399.3	378.0	365.3	359.6	360.1
25°	530.8	518.6	497.7	474.1	441.4	403.4	367.3	341.1	326.4	320.1	319.9
27.5°	542.8	528.9	506.2	471.1	421.5	370.5	329.4	303.9	291.6	286.2	285.3
30°	556.6	541.9	517.4	459.6	392.4	332.5	292.4	274.4	265.7	260.3	259.3
32.5°	573.4	559.6	526.6	438.8	355.2	292.9	263.5	251.0	243.1	237.0	235.9
35°	597.8	582.9	528.9	409.1	314.3	261.5	242.3	229.4	218.8	210.9	210.1
37.5°	628.5	612.2	523.6	370.5	274.6	241.2	224.6	208.8	194.9	183.8	182.0
40°	672.7	648.0	508.8	326.1	245.4	225.5	207.4	189.3	172.1	159.1	156.5
42.5°	725.8	690.1	486.2	281.9	224.0	209.6	190.3	167.9	151.4	142.2	140.9
45°	793.4	733.9	454.7	243.2	202.9	193.8	171.9	151.2	141.0	134.2	133.1
47.5°	870.5	783.0	421.7	211.8	185.0	178.9	157.1	143.8	135.7	130.3	129.3
50°	965.2	838.5	386.7	186.0	167.0	161.0	150.1	139.7	133.2	129.1	128.1
52.5°	1072.1	901.0	361.5	165.6	152.1	147.8	146.4	137.4	132.2	129.1	128.1
55°	1187.2	964.7	334.3	148.5	139.2	140.4	144.0	137.7	134.1	130.3	128.9
57.5°	1302.4	1030.4	304.0	134.1	129.0	135.0	142.3	138.1	135.1	131.4	130.1
60°	1393.5	1072.1	257.0	122.0	120.9	129.0	138.3	134.8	130.9	131.0	130.8
62.5°	1436.1	1069.9	205.1	111.2	112.8	120.9	131.9	129.5	126.3	130.7	131.0
65°	1412.2	1016.6	159.6	101.4	104.1	112.4	125.2	127.0	128.1	136.4	137.5
67.5°	1312.0	912.8	123.7	92.9	96.2	106.7	125.9	138.3	139.8	148.5	148.4
69°	1208.3	815.5	107.4	88.4	92.3	108.1	134.5	145.5	140.1	149.4	148.1
70°	1121.4	738.5	98.8	85.4	90.5	110.7	140.3	145.4	138.4	146.4	144.2
72.5°	863.7	531.3	83.8	79.9	84.5	105.9	142.0	142.2	134.5	136.1	132.3
75°	592.4	335.7	73.1	72.3	75.4	95.4	136.7	135.9	124.4	122.2	119.1
77.5°	326.6	170.5	62.1	65.1	67.2	84.5	124.2	123.1	113.7	109.0	107.9
80°	126.0	74.7	52.4	57.9	59.2	73.2	108.9	107.9	100.0	94.0	92.3
82.5°	47.6	39.1	43.3	50.1	49.7	60.4	92.2	91.7	84.0	75.2	72.5
85°	22.0	23.4	34.3	41.3	38.1	44.8	73.8	74.8	65.4	55.0	55.0
87.5°	9.3	13.1	24.3	31.2	25.7	30.2	54.1	51.7	47.4	32.9	30.9
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)