

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: P348548

Luminaire Tested: **ARCH-N-PA1-19-750-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-19-750-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 370mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3041 lumens
Efficiency: N/A
Efficacy: 160.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

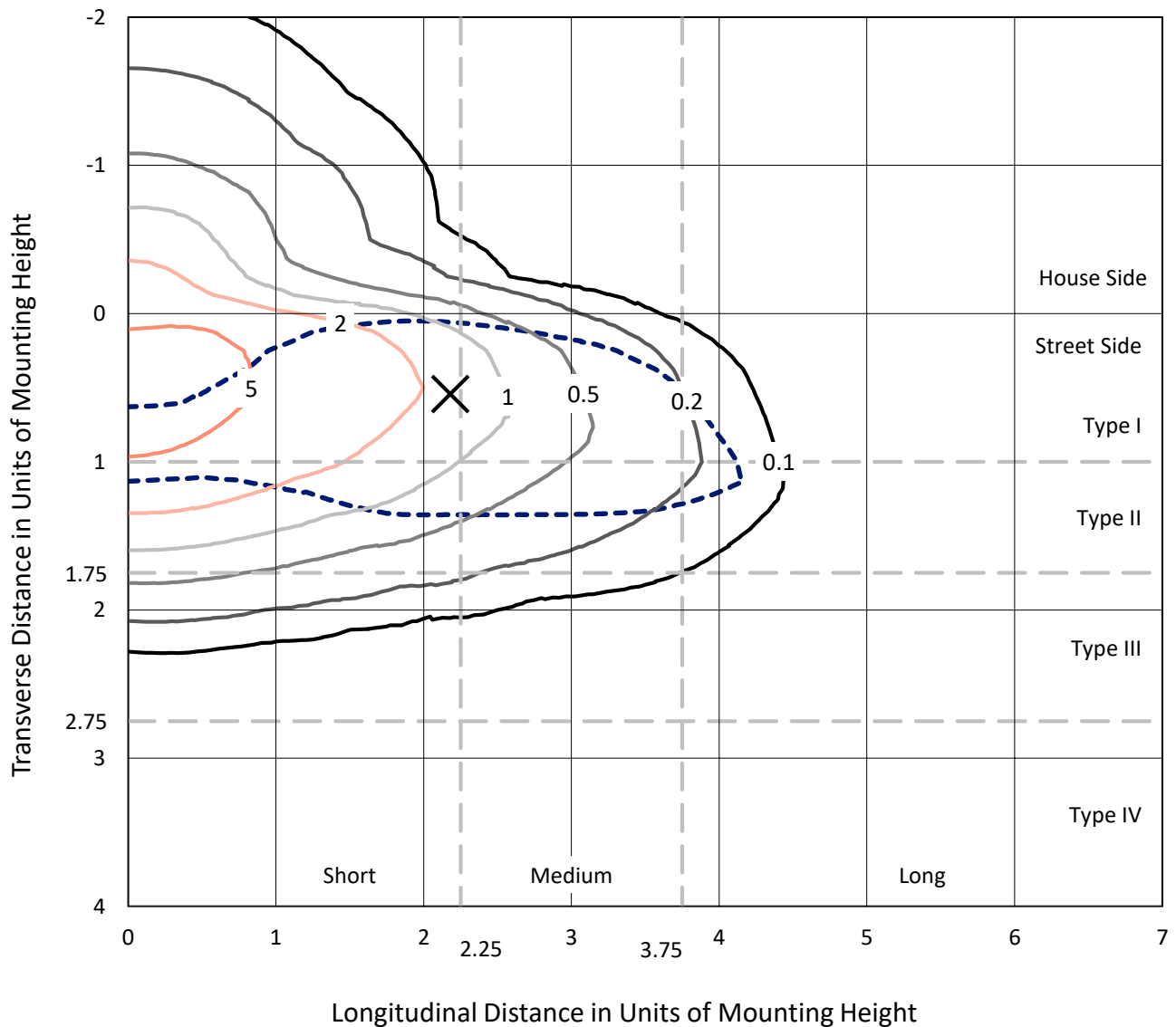
Input Watts (W): 19
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P348548
 CATALOG NUMBER: ARCH-N-PA1-19-750-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

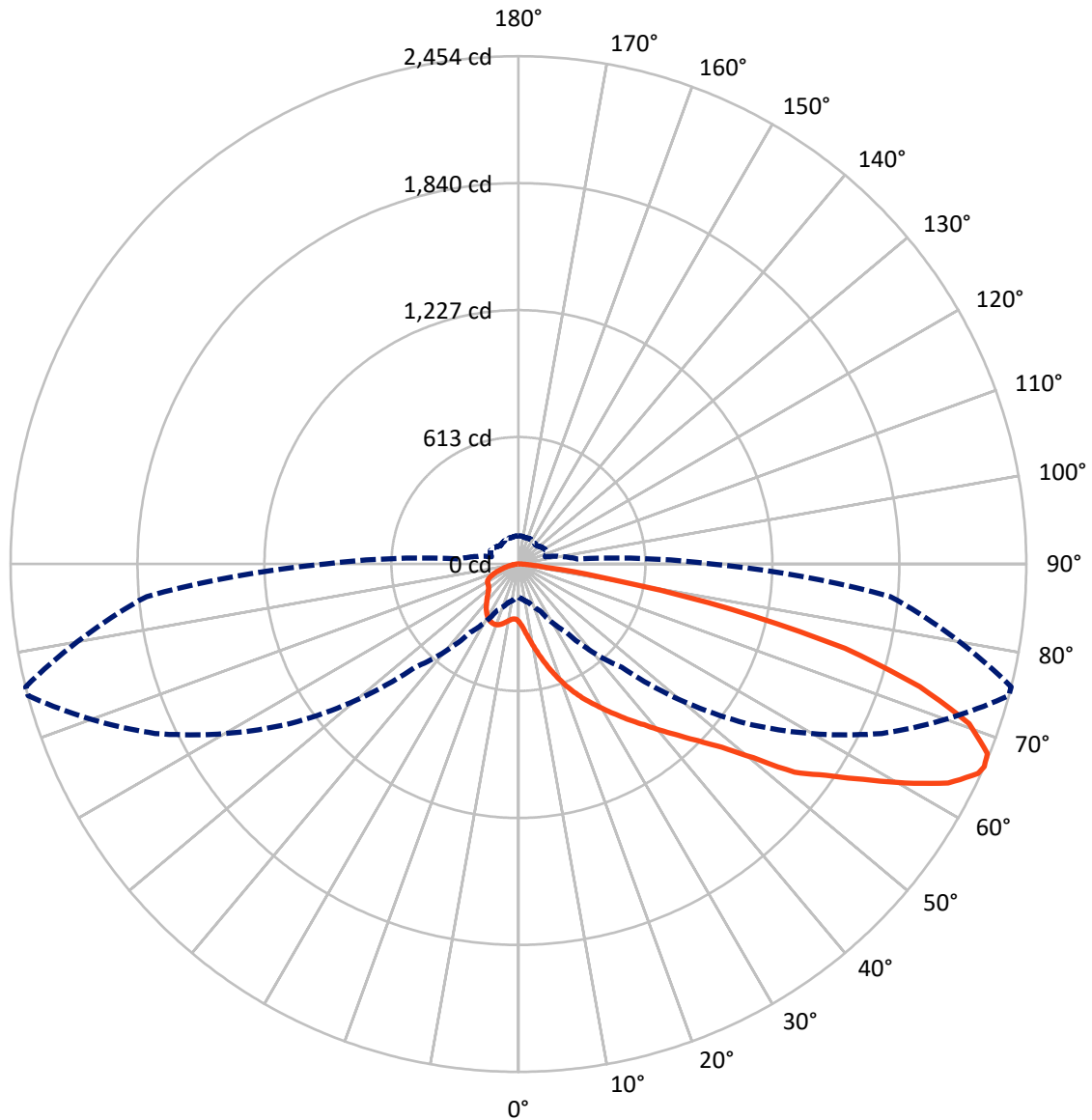


Based on 10 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P348548

CATALOG NUMBER: ARCH-N-PA1-19-750-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P348548

CATALOG NUMBER: ARCH-N-PA1-19-750-U-T2R

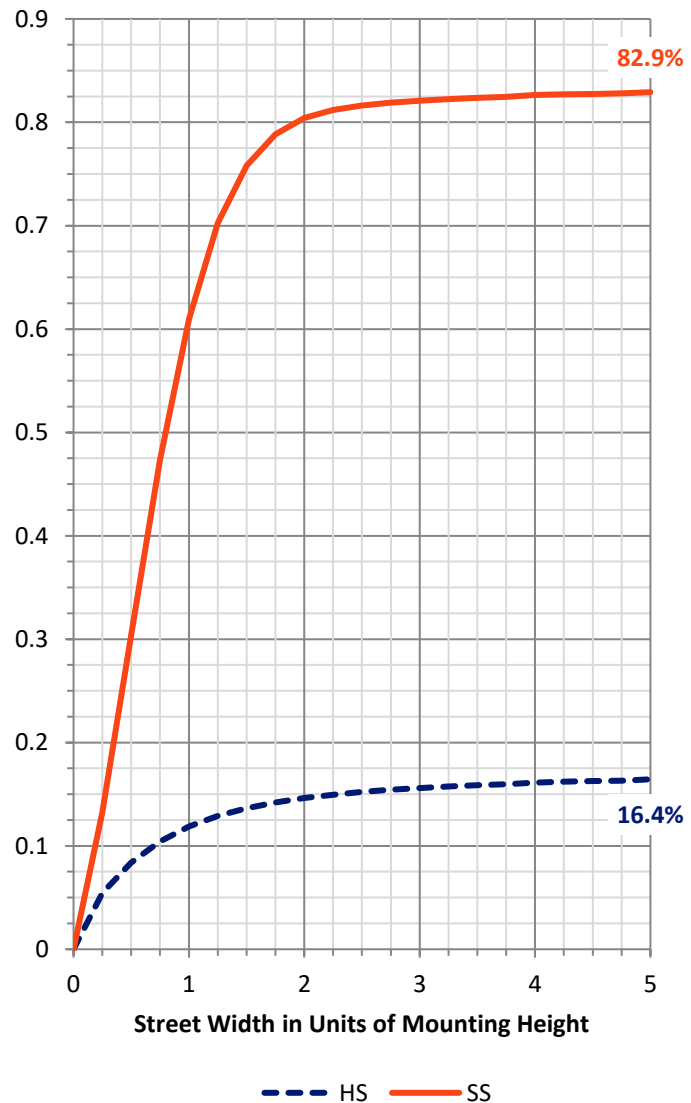
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	511.7	0.0	511.7
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	2529.3	0.0	2529.3
	% Fixture	83.2	0.0	83.2
Total	Lumens	3041.0	0.0	3041.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.6	1.1
10°-20°	132.6	4.4
20°-30°	257.7	8.5
30°-40°	420.6	13.8
40°-50°	574.7	18.9
50°-60°	669.4	22.0
60°-70°	600.1	19.7
70°-80°	303.3	10.0
80°-90°	49.0	1.6
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°	3041.0	100.0
0°-180°	3041.0	100.0

Coefficient of Utilization



REPORT NUMBER: P348548

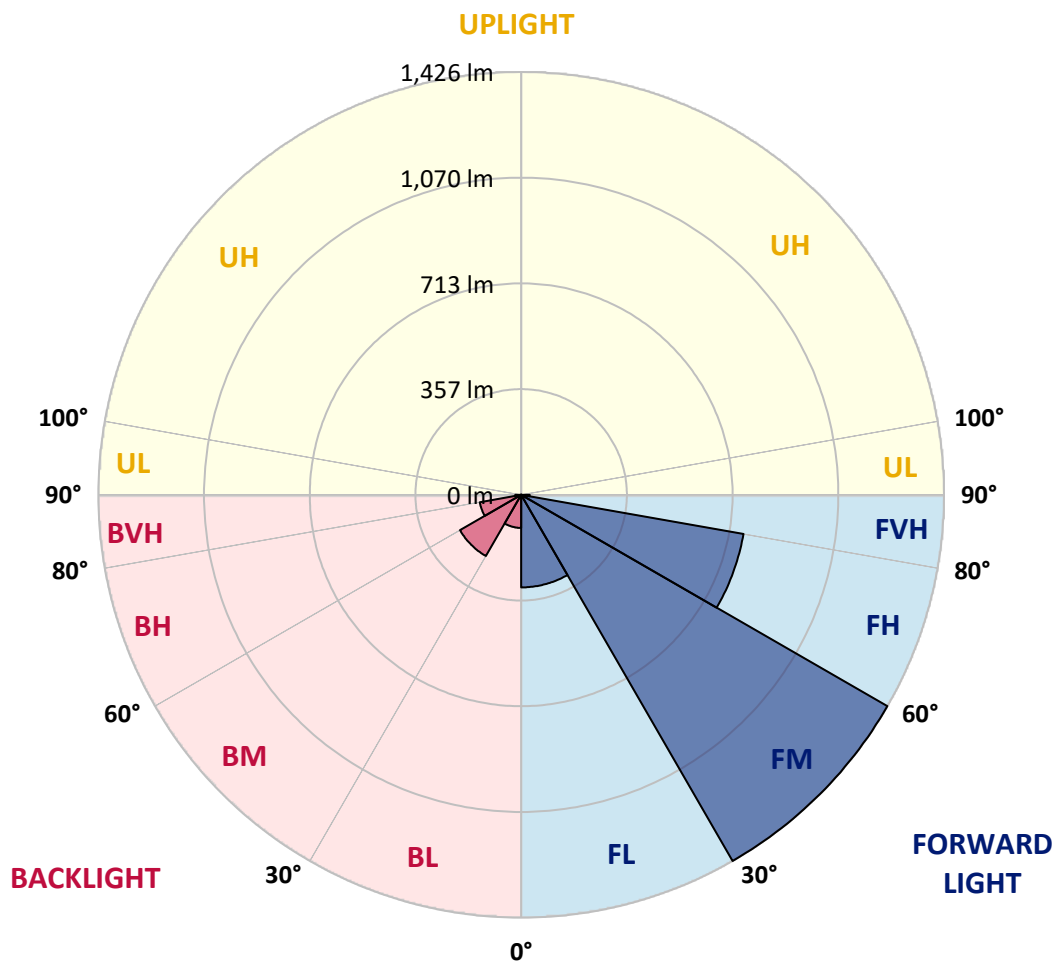
CATALOG NUMBER: ARCH-N-PA1-19-750-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	312.3	10.3			
FM (30°-60°)	1426.4	46.9			
FH (60°-80°)	761.6	25.0			G1/1800
FVH (80°-90°)	28.9	1.0			G1/100
BL (0°-30°)	111.6	3.7	B1/500		
BM (30°-60°)	238.3	7.8	B1/1000		
BH (60°-80°)	141.8	4.7	B1/500		G1/500
BVH (80°-90°)	20.1	0.7			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 II Short





REPORT NUMBER: P348548

CATALOG NUMBER: ARCH-N-PA1-19-750-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	277.7	277.7	277.7	277.7	277.7	277.7	277.7	277.7	277.7	277.7	277.7
2.5°	368.7	363.1	362.6	354.4	352.6	337.0	325.5	313.5	299.9	297.2	286.5
5°	473.6	473.0	465.9	452.6	442.2	415.5	389.2	361.3	330.8	325.8	301.7
7.5°	567.9	567.1	561.6	547.3	532.2	499.5	461.9	419.1	369.6	362.3	322.2
10°	639.6	639.3	637.4	626.9	614.1	582.7	541.2	482.8	414.7	404.7	347.9
12.5°	694.9	695.5	696.8	693.0	686.9	660.2	617.7	550.4	462.8	452.9	376.5
15°	732.4	734.2	740.6	745.9	749.1	732.7	691.5	619.4	516.7	504.8	408.2
17.5°	751.3	753.3	764.4	780.3	794.9	793.3	760.6	685.3	568.4	557.0	442.3
20°	767.6	769.1	781.5	800.6	826.5	838.0	819.6	748.7	625.1	611.5	478.4
22.5°	814.9	816.8	820.5	831.4	854.3	875.4	866.5	808.7	677.0	664.3	512.7
25°	906.1	908.5	900.4	891.3	895.6	910.3	911.9	863.4	729.7	715.3	549.5
27.5°	1016.1	1019.5	1005.8	982.1	961.5	955.8	953.8	908.2	780.0	763.3	586.0
30°	1123.8	1129.6	1111.8	1081.1	1043.2	1016.6	996.9	952.1	829.5	813.6	620.4
32.5°	1229.0	1226.6	1200.7	1170.7	1126.3	1093.0	1045.3	999.1	885.3	867.0	654.5
35°	1301.0	1301.8	1277.8	1242.3	1199.9	1174.3	1110.1	1049.9	942.2	925.3	693.4
37.5°	1362.3	1358.5	1331.3	1298.1	1261.7	1250.7	1186.0	1105.9	1003.8	985.4	734.6
40°	1382.8	1378.3	1360.5	1336.6	1307.4	1306.5	1269.7	1169.3	1073.5	1055.3	781.2
42.5°	1370.4	1364.7	1357.4	1350.9	1341.9	1346.0	1348.4	1243.6	1150.1	1129.7	835.1
45°	1324.7	1316.1	1321.2	1335.4	1354.9	1378.2	1419.4	1325.9	1235.9	1218.8	898.4
47.5°	1254.3	1246.6	1262.7	1293.0	1346.0	1405.1	1486.6	1416.7	1338.3	1321.4	988.5
50°	1155.4	1157.7	1180.7	1235.8	1316.0	1417.5	1569.4	1537.0	1487.2	1471.4	1111.5
52.5°	993.2	993.6	1058.4	1148.7	1262.7	1411.1	1615.4	1690.7	1690.4	1671.3	1228.5
55°	842.4	851.6	902.9	1023.0	1176.4	1385.5	1647.5	1765.5	1823.9	1801.5	1337.7
57.5°	695.2	700.6	749.2	869.8	1053.2	1317.2	1680.4	1855.2	1977.7	1963.6	1473.3
60°	527.8	536.0	586.3	697.7	895.7	1196.1	1683.5	1948.8	2161.6	2147.4	1624.8
62.5°	342.5	356.8	403.9	508.2	705.1	1022.0	1611.7	2010.1	2335.9	2330.8	1759.2
65°	196.9	207.6	240.3	320.9	486.5	803.3	1440.8	1986.5	2443.1	2440.3	1809.5
66°	160.8	167.6	192.6	250.8	401.4	705.4	1341.5	1936.9	2453.8	2453.9	1803.7
67.5°	128.6	131.6	142.9	179.5	296.2	559.1	1164.0	1827.3	2440.6	2444.2	1766.4
70°	106.4	108.0	111.5	120.4	161.7	337.2	826.2	1542.7	2307.9	2310.7	1620.9
72.5°	95.5	96.4	97.8	99.0	114.1	188.4	504.6	1234.1	2023.5	2027.1	1399.3
75°	86.5	87.0	86.8	86.9	95.7	120.1	260.8	921.4	1636.1	1628.9	1071.9
77.5°	76.0	76.5	75.5	75.7	84.7	92.3	129.8	645.0	1104.1	1053.1	603.9
80°	64.2	64.6	64.2	64.9	73.7	69.7	75.5	362.9	488.2	461.8	214.7
82.5°	48.5	50.3	51.5	54.4	60.7	49.6	50.5	141.3	148.7	141.5	65.9
85°	21.3	25.9	38.8	41.6	45.6	29.7	33.1	57.6	60.5	58.6	24.0
87.5°	5.6	6.1	19.2	24.2	25.3	13.4	17.2	26.2	27.7	26.2	7.9
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: P348548

CATALOG NUMBER: ARCH-N-PA1-19-750-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	277.7	277.7	277.7	277.7	277.7	277.7	277.7	277.7	277.7	277.7	277.7
2.5°	280.8	275.8	266.7	258.6	252.5	248.4	244.3	242.2	241.0	239.7	239.9
5°	289.8	279.6	264.0	252.9	246.7	242.8	240.8	239.9	239.4	238.2	238.2
7.5°	303.3	288.9	267.4	256.0	251.2	248.2	246.9	246.5	245.9	244.5	244.7
10°	320.3	300.1	274.5	263.5	259.0	255.7	254.0	253.3	252.2	250.6	250.8
12.5°	340.4	314.1	283.9	272.3	267.0	262.5	259.6	257.9	255.9	253.8	253.9
15°	362.3	329.2	294.0	280.3	273.0	266.8	262.1	259.1	256.0	253.3	253.2
17.5°	384.5	343.9	301.8	284.6	274.7	266.6	260.3	255.6	251.8	248.5	248.2
20°	408.4	357.1	306.1	284.2	271.4	261.7	253.3	247.6	243.3	240.0	239.5
22.5°	432.8	369.5	306.8	280.0	264.1	252.2	243.4	237.0	232.7	229.3	228.1
25°	455.1	379.1	303.8	271.8	253.9	241.1	232.5	226.0	222.5	218.5	217.2
27.5°	475.4	385.8	297.8	261.4	242.4	229.8	221.8	216.2	212.4	209.3	208.2
30°	493.7	389.4	288.0	249.0	230.6	219.2	212.4	208.5	205.2	201.3	200.6
32.5°	511.0	389.4	275.4	235.5	219.0	209.8	205.8	203.4	199.7	195.8	194.8
35°	528.4	387.0	260.6	221.3	208.2	203.1	202.9	200.1	194.4	189.2	187.9
37.5°	546.6	382.2	243.8	208.1	199.5	200.1	201.8	195.6	187.6	180.3	178.3
40°	567.3	375.5	226.5	196.7	192.1	198.7	199.0	189.2	173.5	166.8	165.1
42.5°	591.6	368.8	210.4	186.6	186.3	194.7	193.8	175.4	166.0	162.6	161.7
45°	623.5	364.9	195.1	177.0	181.8	188.2	184.8	167.8	163.8	161.9	161.1
47.5°	673.7	366.9	181.1	169.3	177.3	181.7	168.1	164.7	161.9	159.5	158.7
50°	736.7	365.8	169.7	164.0	172.1	174.9	160.5	160.6	159.2	156.5	155.3
52.5°	784.1	356.9	162.4	161.1	167.6	162.8	155.8	156.7	156.0	152.1	150.7
55°	829.8	349.3	158.7	159.9	164.3	147.7	150.2	152.5	151.8	147.9	147.3
57.5°	886.7	347.8	156.4	160.2	161.5	140.2	144.8	147.8	147.3	145.7	145.4
60°	956.4	348.2	154.3	160.7	158.4	134.6	139.8	143.6	143.9	143.6	143.4
62.5°	994.7	337.0	149.2	159.3	152.9	129.8	134.5	140.1	140.2	140.8	140.7
65°	962.2	303.3	139.6	154.2	143.7	125.7	130.0	136.1	134.5	137.3	137.3
66°	930.6	283.9	134.8	150.9	139.8	124.2	128.5	134.0	132.0	135.9	135.9
67.5°	866.1	251.2	126.3	143.9	134.2	122.0	126.9	130.6	127.9	133.6	133.2
70°	748.2	194.3	109.0	128.0	125.0	118.8	124.6	123.8	119.9	128.5	126.9
72.5°	630.8	147.6	87.5	107.2	111.1	114.8	121.4	115.1	110.2	116.2	112.6
75°	489.5	111.0	69.2	83.3	93.8	108.5	117.6	105.1	98.0	97.4	95.4
77.5°	264.6	76.2	54.8	63.6	74.5	100.7	115.0	94.4	83.6	81.1	79.6
80°	104.8	49.6	39.9	48.2	52.1	89.3	108.8	81.9	69.0	66.5	64.1
82.5°	43.3	29.3	25.7	32.3	34.0	76.4	97.7	67.1	53.3	73.7	78.3
85°	18.6	16.1	15.3	16.7	19.2	53.6	77.7	51.2	57.5	51.3	40.8
87.5°	5.6	6.8	6.5	6.4	7.0	12.8	41.4	28.5	42.2	16.0	12.0
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)