

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: P348591

Luminaire Tested: **ARCH-N-PA1-20-730-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348591
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-PA1-20-730-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 420mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3107 lumens
Efficiency: N/A
Efficacy: 129.5 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): 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

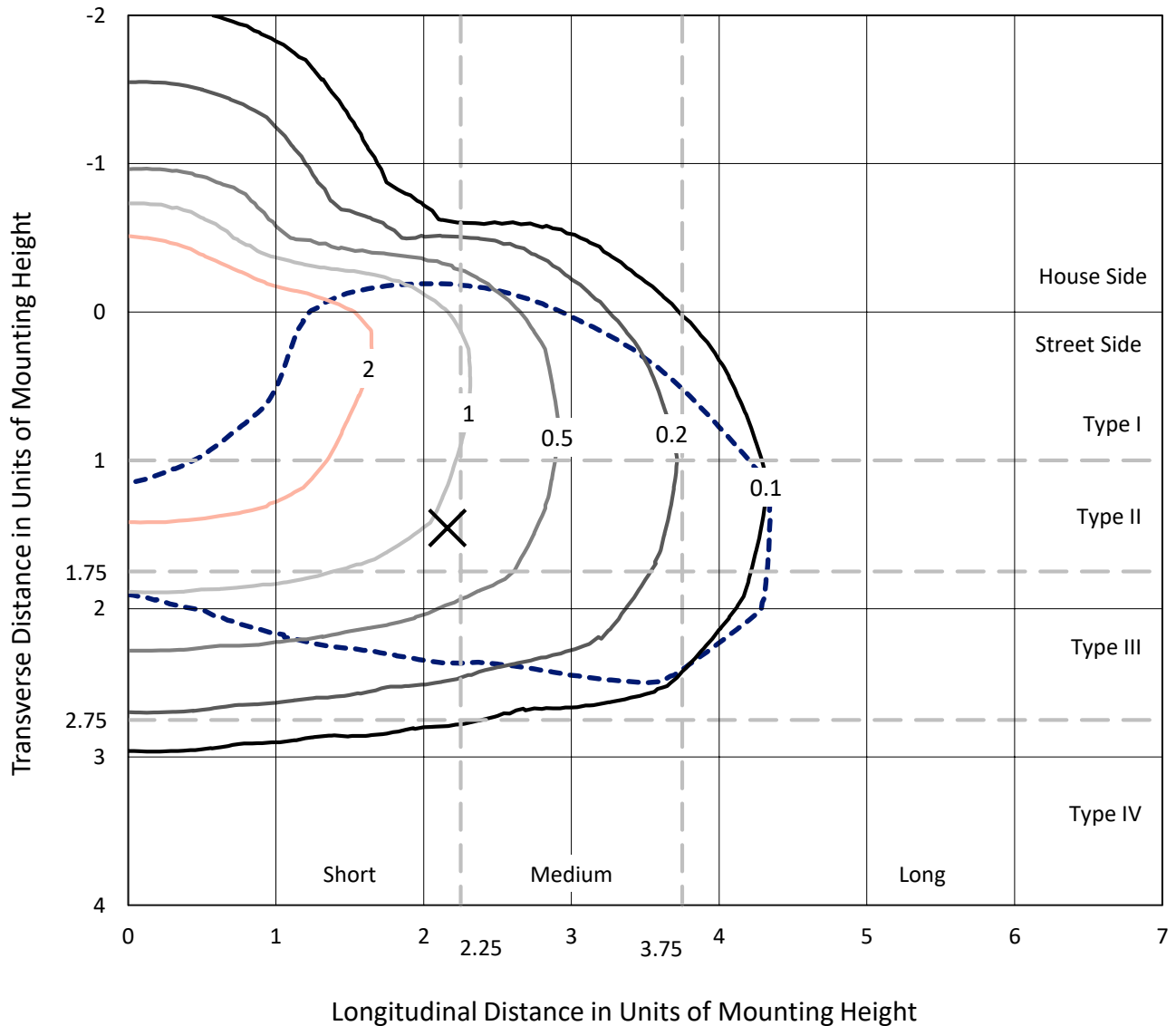


REPORT NUMBER: P348591

CATALOG NUMBER: ARCH-N-PA1-20-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

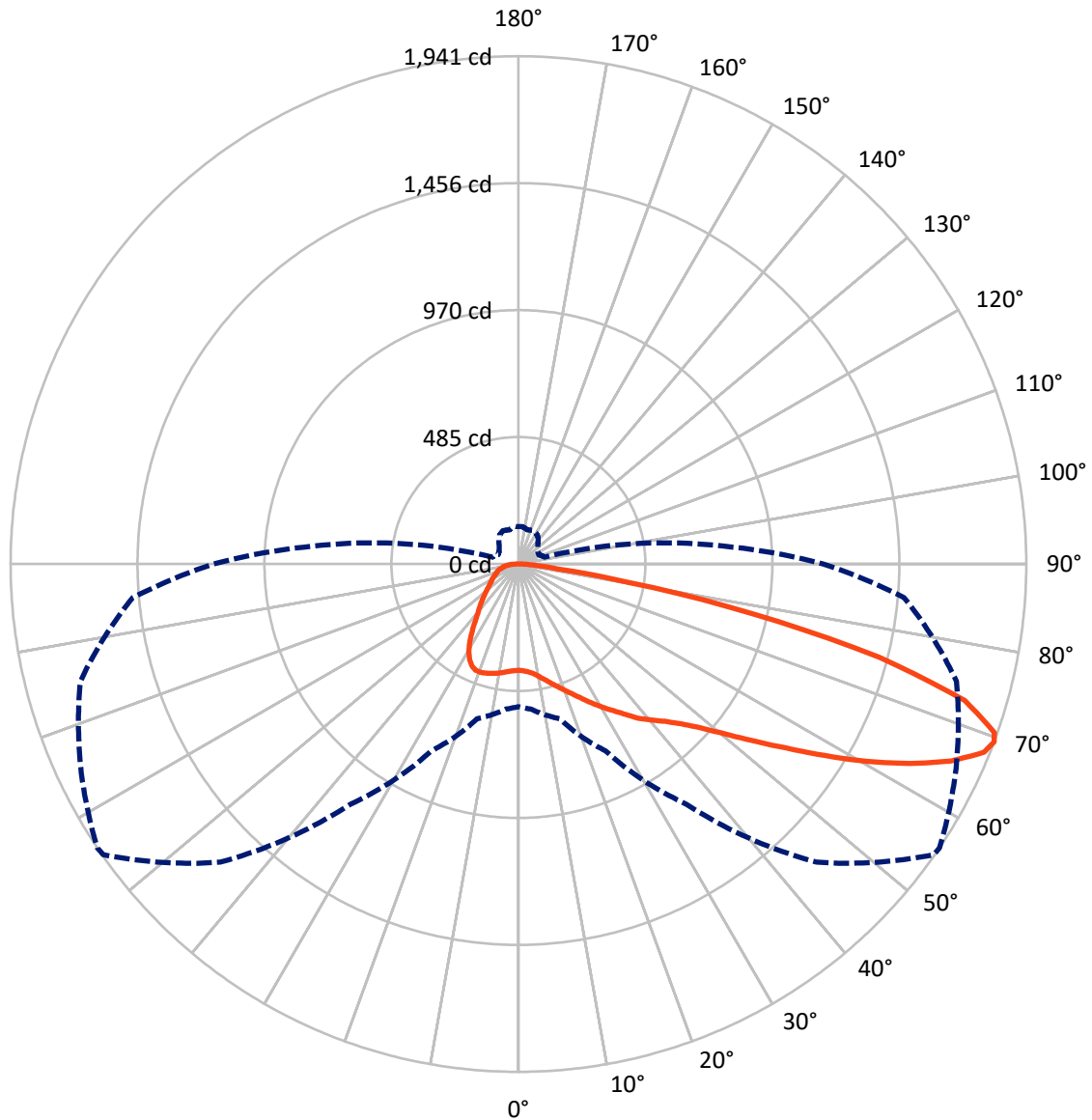


Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - Semi-Cutoff

REPORT NUMBER: P348591

CATALOG NUMBER: ARCH-N-PA1-20-730-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P348591

CATALOG NUMBER: ARCH-N-PA1-20-730-U-T3

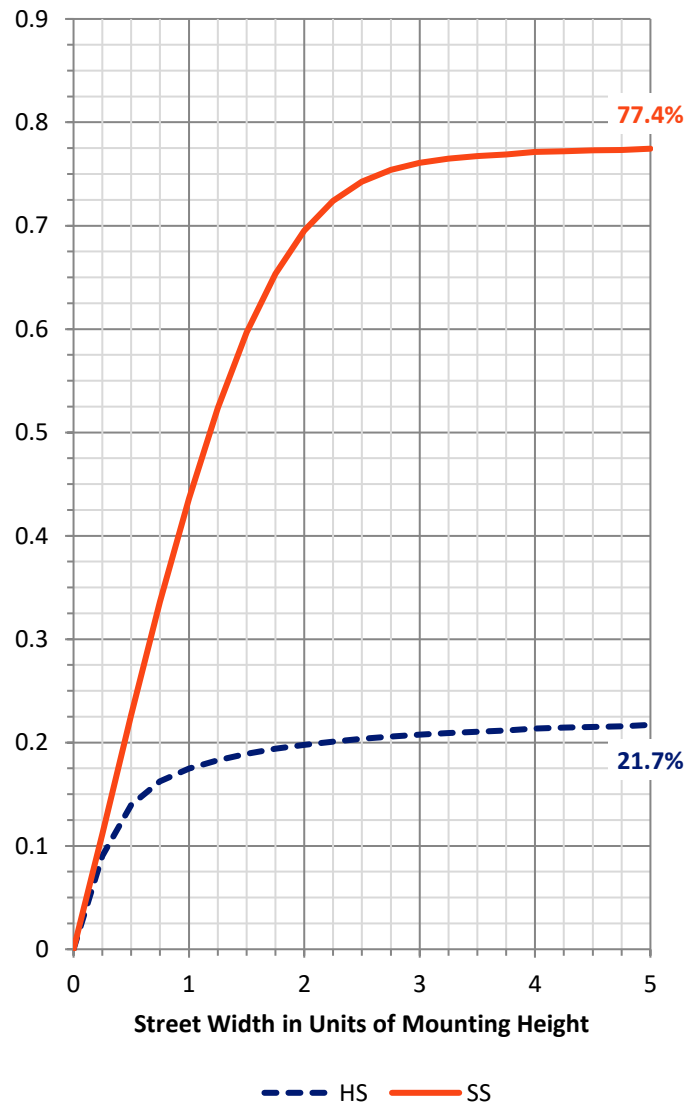
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	691.9	0.0	691.9
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	2415.1	0.0	2415.1
	% Fixture	77.7	0.0	77.7
Total	Lumens	3107.0	0.0	3107.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.9	1.3
10°-20°	128.3	4.1
20°-30°	223.9	7.2
30°-40°	321.7	10.4
40°-50°	445.2	14.3
50°-60°	652.3	21.0
60°-70°	795.2	25.6
70°-80°	439.7	14.2
80°-90°	60.9	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°	3107.0	100.0
0°-180°	3107.0	100.0



REPORT NUMBER: P348591

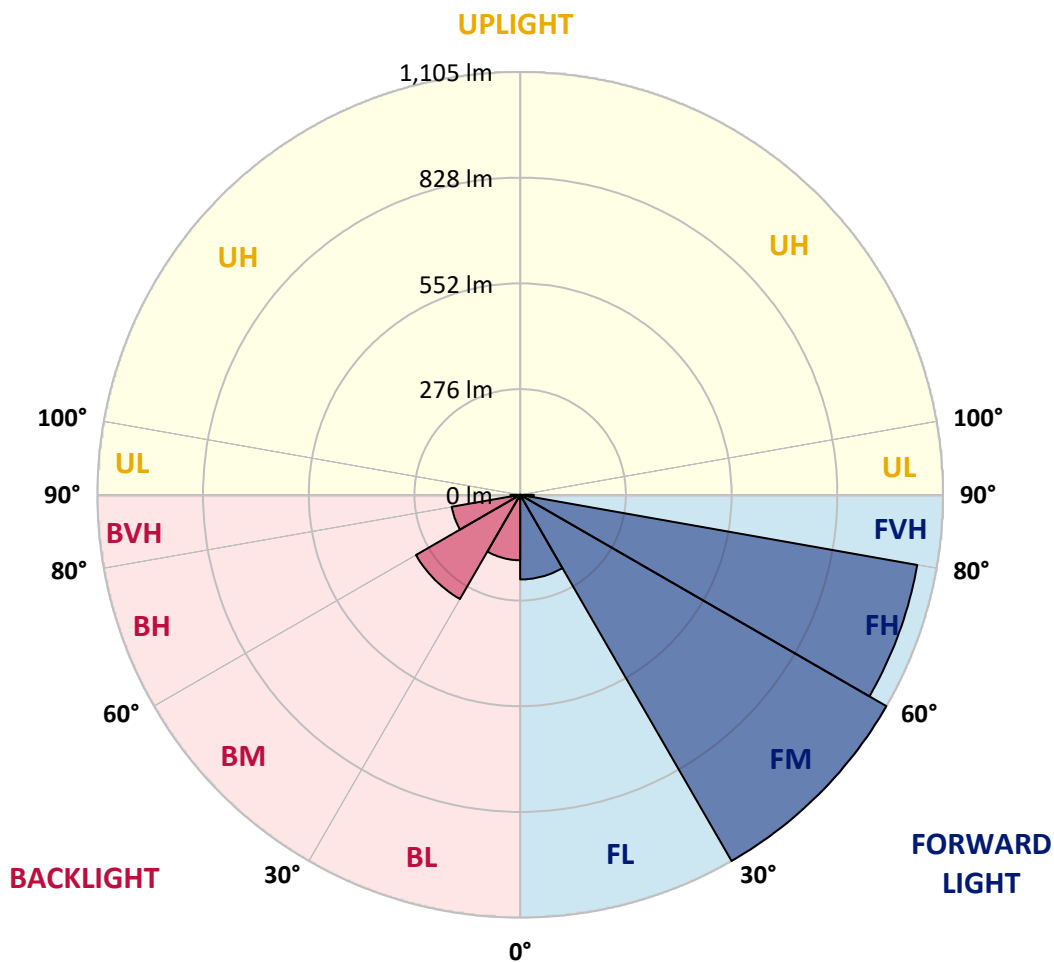
CATALOG NUMBER: ARCH-N-PA1-20-730-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	221.1	7.1			
FM	(30°-60°)	1104.7	35.6			
FH	(60°-80°)	1053.4	33.9			G1/1800
FVH	(80°-90°)	35.9	1.2			G1/100
BL	(0°-30°)	171.0	5.5	B1/500		
BM	(30°-60°)	314.5	10.1	B1/1000		
BH	(60°-80°)	181.4	5.8	B1/500		G1/500
BVH	(80°-90°)	25.0	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: P348591

CATALOG NUMBER: ARCH-N-PA1-20-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	406.2	406.2	406.2	406.2	406.2	406.2	406.2	406.2	406.2	406.2	406.2
2.5°	408.8	409.2	408.9	409.7	408.8	409.4	408.9	408.9	408.5	407.6	406.5
5°	415.2	416.0	415.5	416.4	415.2	415.4	414.4	414.4	413.5	411.4	409.3
7.5°	425.2	426.2	425.8	426.6	425.0	425.0	423.7	423.6	421.7	418.4	415.9
10°	437.2	438.5	438.1	439.4	438.1	438.5	437.2	437.2	434.7	430.0	426.9
12.5°	454.7	456.3	455.1	455.0	454.5	455.3	454.3	454.0	451.7	445.3	441.0
15°	478.0	479.7	477.3	477.0	474.1	473.7	473.7	473.4	471.9	464.2	457.1
17.5°	504.9	505.4	503.3	499.8	496.0	493.5	493.2	494.1	494.1	485.1	473.8
20°	531.2	532.2	530.5	526.6	521.7	518.0	515.5	517.2	517.1	506.4	490.4
22.5°	559.9	562.1	559.6	554.6	548.9	544.8	540.3	541.8	541.9	528.7	506.7
25°	597.0	595.0	593.4	586.4	578.2	574.0	569.8	571.3	570.9	552.8	523.5
27.5°	629.9	630.3	628.2	620.8	611.3	602.1	601.9	602.8	601.2	577.9	539.3
30°	668.1	668.3	665.3	658.7	648.3	636.4	633.6	635.2	631.8	601.6	556.0
32.5°	706.1	707.2	703.9	695.8	687.5	673.0	667.5	668.5	660.0	625.9	573.3
35°	739.4	740.9	739.8	734.5	725.4	713.0	706.3	705.7	695.1	655.7	596.1
37.5°	773.3	774.7	773.5	769.0	765.4	752.2	748.7	748.7	730.3	686.1	625.1
40°	808.2	810.4	809.0	802.8	799.6	793.7	785.2	783.2	763.3	722.6	672.4
42.5°	840.6	843.4	849.0	845.4	839.0	839.9	822.9	821.8	807.2	776.5	731.8
45°	886.7	890.7	900.2	897.4	896.1	891.4	871.1	870.2	864.6	849.1	805.5
47.5°	936.9	942.4	959.5	960.0	973.8	964.9	937.4	934.1	935.4	936.0	895.6
50°	983.1	989.2	1017.1	1030.3	1062.8	1064.8	1020.8	1017.8	1022.8	1037.6	1000.4
52.5°	1020.0	1027.7	1062.6	1103.3	1159.1	1174.9	1123.4	1121.2	1124.9	1150.4	1119.0
55°	1047.1	1055.5	1093.5	1167.5	1256.6	1284.5	1241.6	1239.5	1241.8	1274.2	1248.0
57.5°	1053.4	1055.5	1110.6	1210.8	1338.9	1406.0	1386.2	1381.9	1370.4	1398.6	1390.4
60°	1023.8	1031.9	1096.5	1226.0	1402.6	1525.8	1537.3	1532.0	1499.5	1522.7	1516.0
62.5°	963.6	978.2	1043.7	1202.8	1427.5	1623.6	1685.6	1679.1	1623.3	1638.3	1606.4
65°	865.4	871.6	940.4	1123.1	1395.8	1686.2	1817.8	1814.5	1744.2	1720.8	1623.1
67.5°	689.6	701.3	759.7	956.5	1266.2	1678.8	1920.0	1919.7	1823.2	1751.4	1563.9
69°	544.8	556.9	612.6	787.9	1120.4	1611.3	1937.1	1940.8	1845.5	1732.8	1479.3
70°	434.3	448.4	486.6	663.6	991.0	1522.2	1922.9	1929.6	1841.2	1702.1	1401.3
72.5°	184.8	196.2	223.4	342.1	604.0	1136.7	1758.1	1783.6	1742.0	1557.8	1158.1
75°	80.7	84.2	96.5	139.5	268.1	618.7	1377.3	1424.4	1489.5	1316.7	862.7
77.5°	59.1	60.6	67.3	81.9	120.3	233.7	885.7	913.1	1074.2	958.2	529.2
80°	45.7	46.8	52.0	60.2	78.6	94.5	403.9	427.5	604.0	492.1	220.4
82.5°	36.4	37.1	40.8	44.3	54.3	57.3	134.1	148.8	223.0	135.9	58.3
85°	33.8	34.7	36.0	32.3	34.8	33.6	58.0	60.7	67.3	53.4	24.4
87.5°	15.3	18.1	35.6	25.2	18.5	14.8	23.8	24.8	27.9	28.0	10.8
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: P348591

CATALOG NUMBER: ARCH-N-PA1-20-730-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	406.2	406.2	406.2	406.2	406.2	406.2	406.2	406.2	406.2	406.2	406.2
2.5°	407.2	406.8	407.4	406.1	407.7	407.6	407.0	407.3	408.3	408.2	408.3
5°	409.6	409.4	410.0	409.1	411.0	411.7	411.8	412.7	413.9	414.2	414.2
7.5°	415.8	415.8	416.1	414.9	416.1	416.0	415.5	416.5	417.6	417.8	417.6
10°	426.5	426.6	426.1	422.8	421.7	418.8	416.1	416.3	417.8	418.9	419.3
12.5°	440.0	439.6	437.2	431.1	426.6	420.8	418.0	417.9	419.4	420.3	420.6
15°	455.4	454.3	448.2	438.2	430.3	424.5	420.0	418.9	418.1	417.0	417.1
17.5°	470.0	467.3	457.1	443.3	435.0	427.3	418.6	411.7	406.8	404.1	403.2
20°	484.8	479.5	464.8	448.2	437.6	423.5	406.8	392.7	383.9	379.9	379.1
22.5°	498.2	489.8	472.0	453.2	435.5	410.9	384.7	364.1	351.9	346.5	346.9
25°	511.4	499.6	479.5	456.7	425.2	388.6	353.9	328.6	314.5	308.4	308.2
27.5°	523.0	509.6	487.6	453.8	406.1	357.0	317.4	292.7	281.0	275.7	274.9
30°	536.2	522.1	498.5	442.8	378.0	320.4	281.7	264.4	256.0	250.8	249.8
32.5°	552.4	539.1	507.3	422.8	342.2	282.1	253.9	241.8	234.2	228.3	227.2
35°	575.9	561.6	509.6	394.1	302.8	252.0	233.4	221.0	210.7	203.2	202.4
37.5°	605.5	589.8	504.5	357.0	264.6	232.4	216.4	201.1	187.7	177.0	175.3
40°	648.1	624.3	490.2	314.1	236.4	217.3	199.8	182.4	165.8	153.3	150.8
42.5°	699.3	664.9	468.4	271.5	215.8	202.0	183.3	161.7	145.9	137.0	135.7
45°	764.3	707.1	438.1	234.3	195.4	186.7	165.6	145.7	135.8	129.3	128.2
47.5°	838.6	754.4	406.3	204.0	178.2	172.3	151.3	138.5	130.7	125.6	124.6
50°	929.9	807.8	372.6	179.2	160.9	155.1	144.6	134.5	128.3	124.4	123.4
52.5°	1032.9	868.0	348.3	159.6	146.5	142.4	141.1	132.4	127.4	124.4	123.4
55°	1143.8	929.4	322.1	143.1	134.1	135.3	138.7	132.6	129.2	125.6	124.2
57.5°	1254.8	992.7	292.8	129.2	124.3	130.0	137.1	133.0	130.2	126.6	125.3
60°	1342.5	1032.9	247.6	117.5	116.5	124.3	133.3	129.8	126.1	126.2	126.0
62.5°	1383.5	1030.7	197.6	107.1	108.6	116.5	127.0	124.8	121.7	125.9	126.2
65°	1360.5	979.4	153.8	97.7	100.3	108.3	120.6	122.3	123.4	131.4	132.5
67.5°	1264.0	879.4	119.1	89.5	92.7	102.8	121.3	133.3	134.6	143.1	143.0
69°	1164.1	785.6	103.5	85.2	88.9	104.1	129.6	140.2	135.0	144.0	142.7
70°	1080.4	711.5	95.2	82.3	87.2	106.6	135.2	140.1	133.4	141.1	138.9
72.5°	832.1	511.8	80.7	77.0	81.5	102.0	136.8	137.0	129.6	131.1	127.5
75°	570.7	323.5	70.4	69.7	72.7	91.9	131.7	130.9	119.9	117.7	114.7
77.5°	314.7	164.3	59.8	62.7	64.8	81.5	119.7	118.6	109.5	105.0	103.9
80°	121.4	71.9	50.5	55.8	57.0	70.5	104.9	103.9	96.3	90.6	88.9
82.5°	45.8	37.7	41.7	48.3	47.8	58.2	88.8	88.3	80.9	72.5	69.9
85°	21.2	22.6	33.1	39.8	36.7	43.1	71.1	72.0	63.0	53.0	53.0
87.5°	9.0	12.6	23.4	30.1	24.7	29.1	52.1	49.8	45.7	31.7	29.8
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)