

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: P348961

Luminaire Tested: **ARCH-N-PA1-19-830-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348961
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1908-474-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-19-830-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 370mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2393 lumens
Efficiency: N/A
Efficacy: 125.9 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

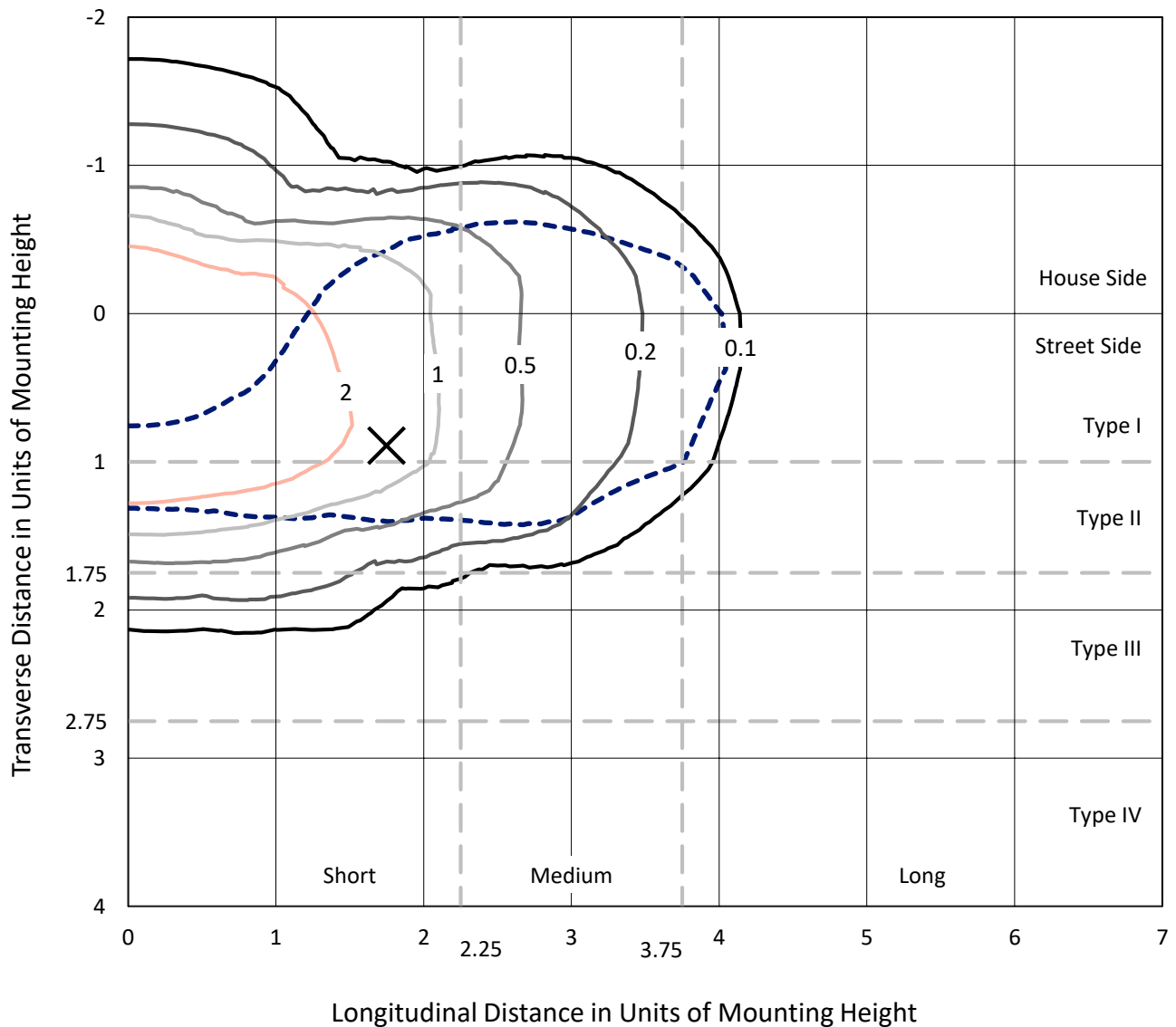
Input Watts (W): 19
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P348961
 CATALOG NUMBER: ARCH-N-PA1-19-830-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

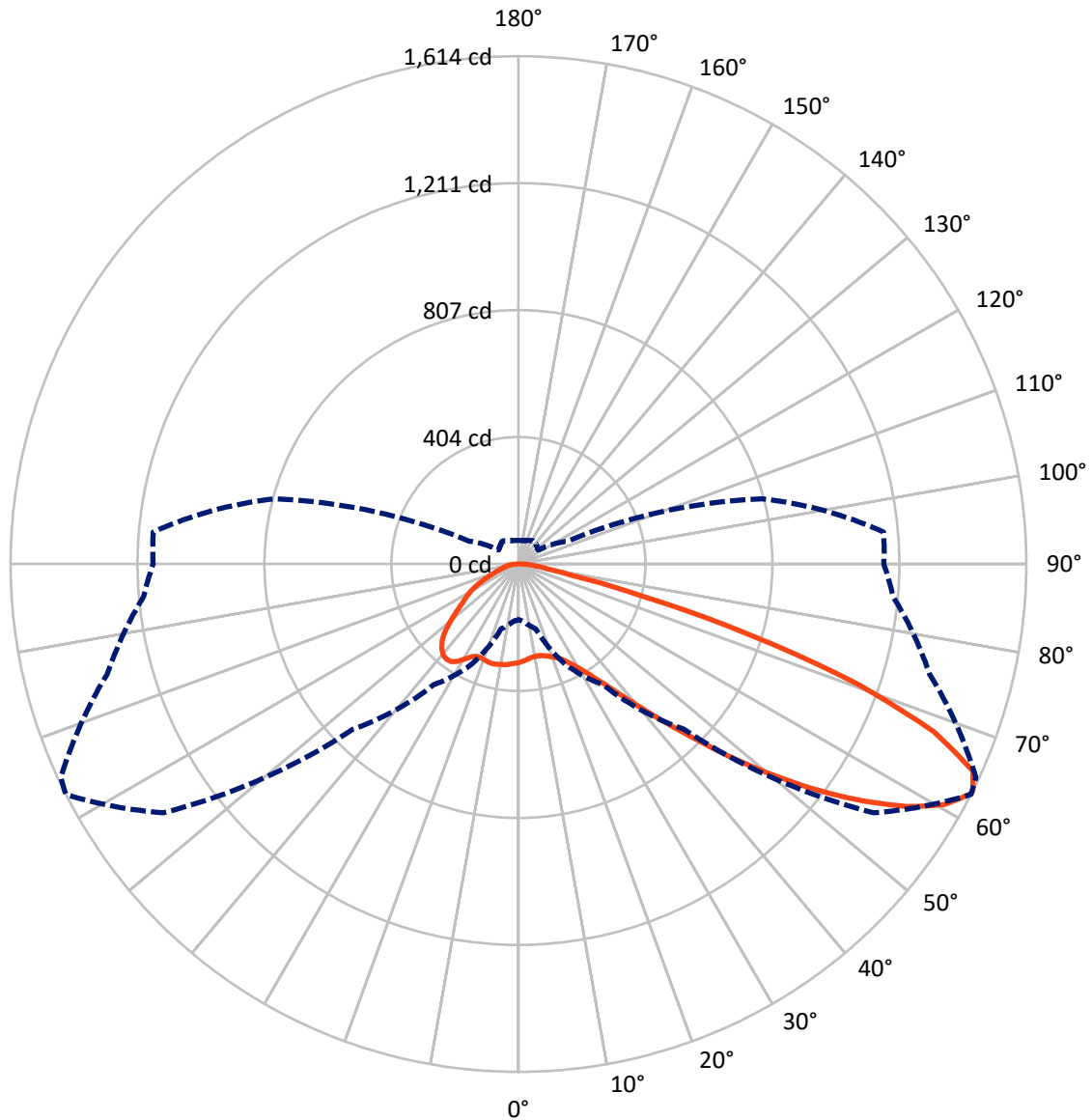
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P348961
CATALOG NUMBER: ARCH-N-PA1-19-830-U-T2U

Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P348961

CATALOG NUMBER: ARCH-N-PA1-19-830-U-T2U

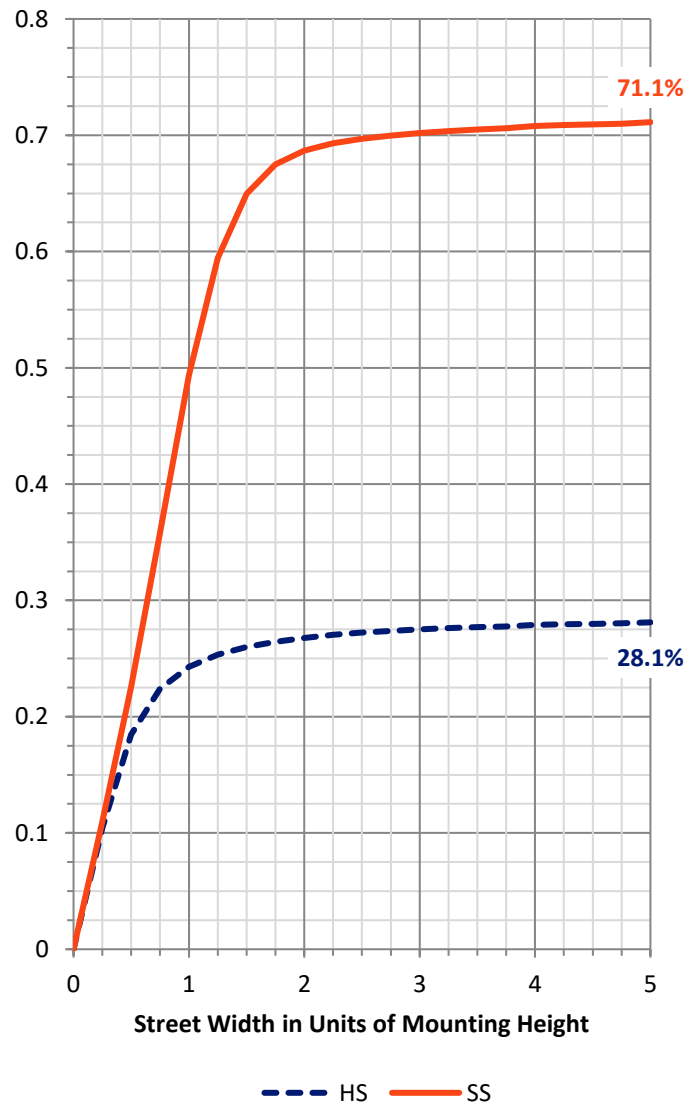
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	683.2	0.0	683.2
	% Fixture	28.5	0.0	28.5
Street Side	Lumens	1709.8	0.0	1709.8
	% Fixture	71.5	0.0	71.5
Total	Lumens	2393.0	0.0	2393.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.7	1.2
10°-20°	87.7	3.7
20°-30°	154.0	6.4
30°-40°	259.7	10.9
40°-50°	454.9	19.0
50°-60°	587.9	24.6
60°-70°	508.9	21.3
70°-80°	264.2	11.0
80°-90°	46.0	1.9
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°	2393.0	100.0
0°-180°	2393.0	100.0



REPORT NUMBER: P348961

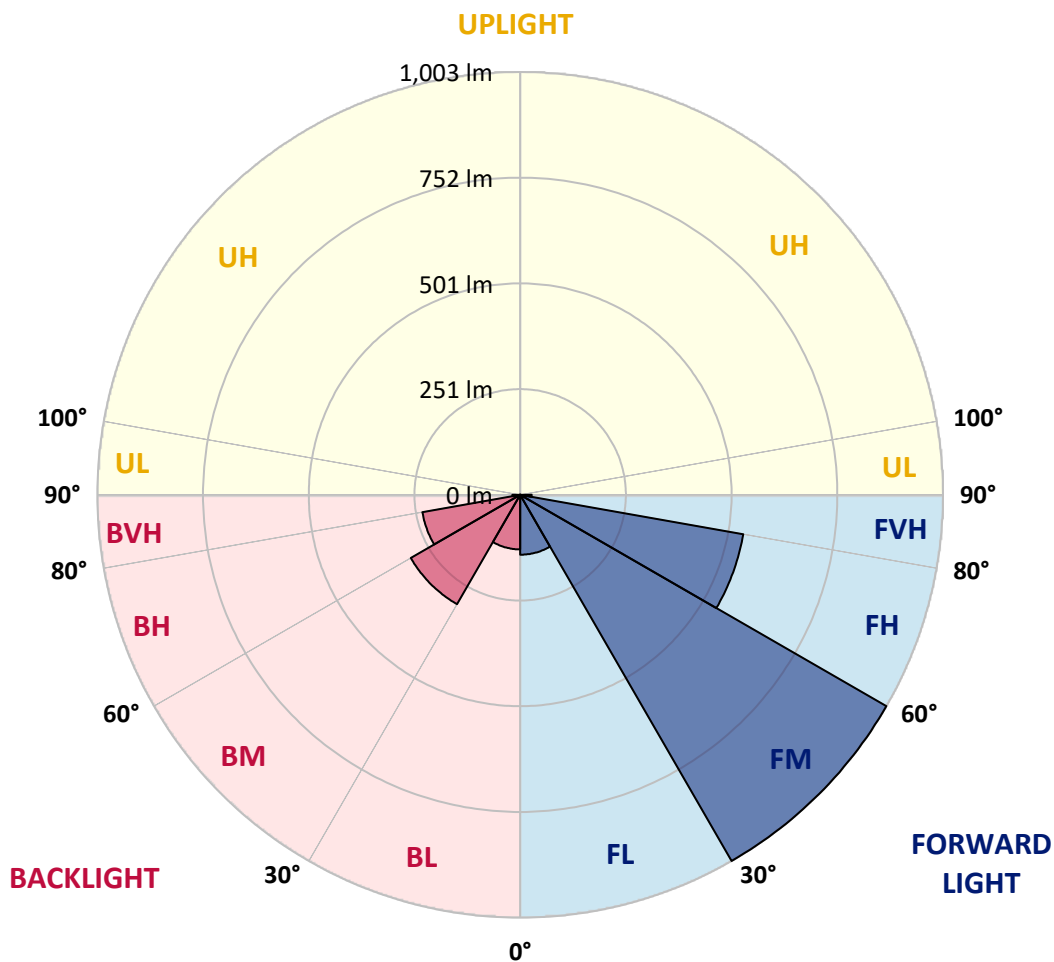
CATALOG NUMBER: ARCH-N-PA1-19-830-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	142.1	5.9			
FM	(30°-60°)	1002.9	41.9			
FH	(60°-80°)	537.4	22.5			G0/660
FVH	(80°-90°)	27.4	1.1			G1/100
BL	(0°-30°)	129.4	5.4	B1/500		
BM	(30°-60°)	299.5	12.5	B1/1000		
BH	(60°-80°)	235.7	9.8	B1/500		G1/500
BVH	(80°-90°)	18.6	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 II Short





REPORT NUMBER: P348961

CATALOG NUMBER: ARCH-N-PA1-19-830-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	313.3	313.3	313.3	313.3	313.3	313.3	313.3	313.3	313.3	313.3	313.3
2.5°	305.9	305.0	306.6	307.3	307.0	308.4	308.4	308.6	308.6	309.7	310.9
5°	297.0	296.5	298.1	299.2	300.1	302.1	303.5	304.1	304.8	306.4	309.1
7.5°	288.5	287.8	290.0	290.9	292.3	295.2	298.3	300.1	301.0	304.4	308.2
10°	281.5	281.3	283.1	284.0	285.5	289.8	294.3	298.1	298.8	303.2	306.8
12.5°	278.2	277.7	279.7	280.8	283.5	288.7	293.8	298.5	299.7	304.8	307.9
15°	280.8	281.3	283.1	283.3	286.4	291.8	297.6	302.3	303.5	308.6	310.9
17.5°	293.6	293.4	294.5	294.1	295.2	297.9	304.1	307.9	309.3	313.1	314.9
20°	316.7	316.0	316.9	314.0	309.1	307.7	311.5	315.8	316.2	318.5	317.3
22.5°	351.8	352.5	350.5	343.1	331.2	325.6	323.2	324.5	326.1	325.9	322.5
25°	397.7	400.0	396.2	383.2	363.3	350.3	341.3	339.3	340.4	337.3	332.1
27.5°	458.0	459.8	451.5	431.3	404.5	385.2	367.3	360.3	360.3	353.6	344.2
30°	524.3	525.4	512.2	486.7	455.5	426.9	400.4	387.0	385.9	372.7	357.9
32.5°	604.9	601.8	586.1	554.5	515.3	475.9	441.9	421.5	419.2	399.3	380.5
35°	709.0	709.0	676.6	640.5	592.8	542.6	497.9	466.3	464.0	441.4	417.0
37.5°	822.1	821.7	792.4	742.6	685.5	624.2	564.4	525.0	519.8	495.6	468.3
40°	934.8	931.0	907.2	860.0	799.1	729.0	646.6	600.6	598.2	563.7	529.4
42.5°	1017.2	1013.6	1002.4	970.8	930.8	880.1	753.4	691.4	687.8	644.3	602.4
45°	1062.7	1057.5	1055.9	1056.4	1060.9	1060.7	885.3	798.6	786.1	735.7	679.9
47.5°	1052.4	1040.3	1056.4	1097.8	1167.5	1213.2	1038.9	926.1	902.8	830.7	762.6
50°	969.3	963.5	997.9	1082.4	1225.5	1332.8	1208.0	1058.4	1025.5	920.5	840.7
52.5°	823.5	834.7	877.2	997.3	1215.0	1405.1	1361.6	1195.9	1150.2	1006.0	908.6
55°	655.5	669.6	729.6	856.9	1117.5	1406.0	1472.5	1329.2	1288.4	1094.5	978.0
57.5°	477.0	497.0	572.0	688.7	946.7	1309.9	1527.2	1453.9	1407.3	1181.6	1045.9
60°	299.7	313.8	395.5	530.8	723.6	1097.8	1513.5	1553.8	1515.3	1263.8	1123.4
62.5°	193.0	199.8	235.2	378.9	504.6	805.1	1412.5	1611.1	1594.6	1338.8	1181.8
63°	176.9	182.7	213.0	350.3	467.8	741.7	1378.4	1614.0	1604.2	1352.9	1195.5
65°	126.5	132.8	148.5	240.8	345.3	497.6	1181.1	1586.9	1597.9	1376.4	1214.1
67.5°	99.9	101.9	109.1	146.2	245.0	282.6	794.8	1425.0	1473.2	1351.3	1186.5
70°	89.4	90.9	99.0	112.2	185.4	183.2	414.5	1145.8	1245.4	1265.8	1117.1
72.5°	77.9	79.1	88.9	105.7	141.5	140.0	180.3	770.4	891.6	1109.0	1021.0
75°	64.5	65.6	73.9	93.8	119.8	110.6	112.9	402.7	511.1	869.4	895.4
77.5°	53.1	53.7	60.7	75.5	105.5	85.3	87.3	169.3	248.4	592.6	707.0
80°	38.5	38.7	45.2	57.3	80.6	77.0	64.9	92.3	112.6	324.7	444.8
82.5°	26.9	27.1	33.8	40.1	55.5	76.8	47.3	61.8	67.6	149.6	198.0
85°	18.8	18.4	23.1	26.4	35.2	46.6	36.1	39.6	41.9	64.7	53.3
87.5°	8.3	8.1	13.0	14.1	17.7	21.5	28.7	20.8	22.2	31.4	16.8
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: P348961

CATALOG NUMBER: ARCH-N-PA1-19-830-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	313.3	313.3	313.3	313.3	313.3	313.3	313.3	313.3	313.3	313.3	313.3
2.5°	311.1	312.0	313.3	315.3	316.9	317.6	318.9	319.1	321.2	319.4	319.6
5°	310.6	311.7	314.7	318.2	320.7	322.5	325.9	327.0	329.0	328.1	327.9
7.5°	310.0	312.0	316.2	321.4	325.2	328.1	331.2	333.2	335.3	334.8	334.4
10°	309.1	311.5	317.6	322.7	328.1	331.2	333.5	333.7	334.4	333.9	332.8
12.5°	309.7	312.4	319.4	324.5	330.1	332.3	331.7	328.3	325.4	322.9	322.5
15°	312.0	315.1	321.6	326.3	330.8	329.4	325.4	318.0	312.6	309.5	309.7
17.5°	314.2	316.9	321.8	325.6	327.9	323.8	317.6	311.3	308.8	306.4	305.9
20°	316.2	316.7	319.8	323.2	322.9	319.8	314.0	306.4	301.4	297.4	297.6
22.5°	319.4	317.6	317.8	319.8	322.3	319.4	305.7	292.5	285.1	280.4	280.2
25°	326.5	322.7	319.1	320.3	329.7	311.1	288.0	270.8	264.3	260.0	260.5
27.5°	336.4	331.2	324.1	330.1	335.3	294.7	262.7	245.0	240.5	236.0	237.2
30°	347.1	339.7	331.0	351.4	329.0	268.7	231.3	215.2	211.2	206.9	207.8
32.5°	366.4	355.4	344.0	376.9	314.4	237.2	198.4	183.9	181.2	178.5	178.7
35°	398.4	385.4	373.1	396.4	295.6	204.2	168.9	158.6	156.3	153.2	153.2
37.5°	445.7	425.3	418.8	406.7	269.9	173.6	147.1	140.2	135.5	131.2	131.2
40°	500.5	476.4	471.2	409.8	236.3	148.0	131.9	125.9	119.6	113.3	113.8
42.5°	567.3	534.6	522.7	405.6	195.5	131.7	121.2	114.2	108.2	102.8	101.9
45°	642.5	601.1	571.1	393.3	158.6	121.6	114.2	105.9	98.3	93.6	92.7
47.5°	719.3	673.2	613.9	368.6	132.6	114.4	109.5	97.9	92.5	89.4	88.9
50°	792.8	744.7	649.2	329.9	117.6	109.3	102.6	94.1	89.6	86.9	86.7
52.5°	858.0	812.5	679.0	289.8	107.5	105.0	99.4	92.3	87.6	85.1	84.7
55°	920.0	881.3	708.6	254.0	98.8	97.9	97.9	90.5	85.3	83.1	82.6
57.5°	988.1	959.4	738.4	227.8	90.9	92.7	95.9	88.5	82.9	80.8	80.6
60°	1066.7	1049.9	769.7	204.7	84.0	87.1	92.9	85.8	80.0	78.4	77.9
62.5°	1147.1	1147.5	796.8	176.9	78.2	82.9	89.6	83.3	77.3	76.1	75.9
63°	1161.2	1165.2	800.6	170.9	76.8	82.0	88.7	82.4	76.6	75.5	75.2
65°	1195.9	1213.6	803.8	145.3	71.9	78.6	85.3	79.5	73.7	73.5	73.0
67.5°	1187.6	1216.5	784.3	114.0	66.3	73.9	80.6	75.2	70.1	70.1	69.2
70°	1125.8	1144.6	724.5	88.0	62.0	69.0	75.0	70.8	65.4	65.8	64.1
72.5°	1031.1	1010.5	595.9	68.8	56.9	63.4	68.5	64.9	60.2	59.8	57.8
75°	892.2	824.4	426.9	55.5	50.6	56.0	61.4	58.7	54.4	52.0	51.5
77.5°	679.9	585.2	255.8	47.0	45.2	49.7	53.1	51.1	47.7	44.8	45.0
80°	404.9	337.5	115.3	39.9	39.2	42.6	45.2	43.7	41.4	37.8	37.0
82.5°	163.9	130.6	51.7	32.2	33.1	35.6	38.1	36.7	34.9	34.0	28.9
85°	42.6	41.0	30.2	24.2	25.5	26.7	30.0	30.0	28.4	23.3	21.5
87.5°	12.1	16.1	16.8	15.2	17.2	17.5	20.8	20.8	21.3	14.3	13.0
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)