

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: P348904

Luminaire Tested: **ARCH-N-PA1-10-830-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348904
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-10-830-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 270mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1265 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 14
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

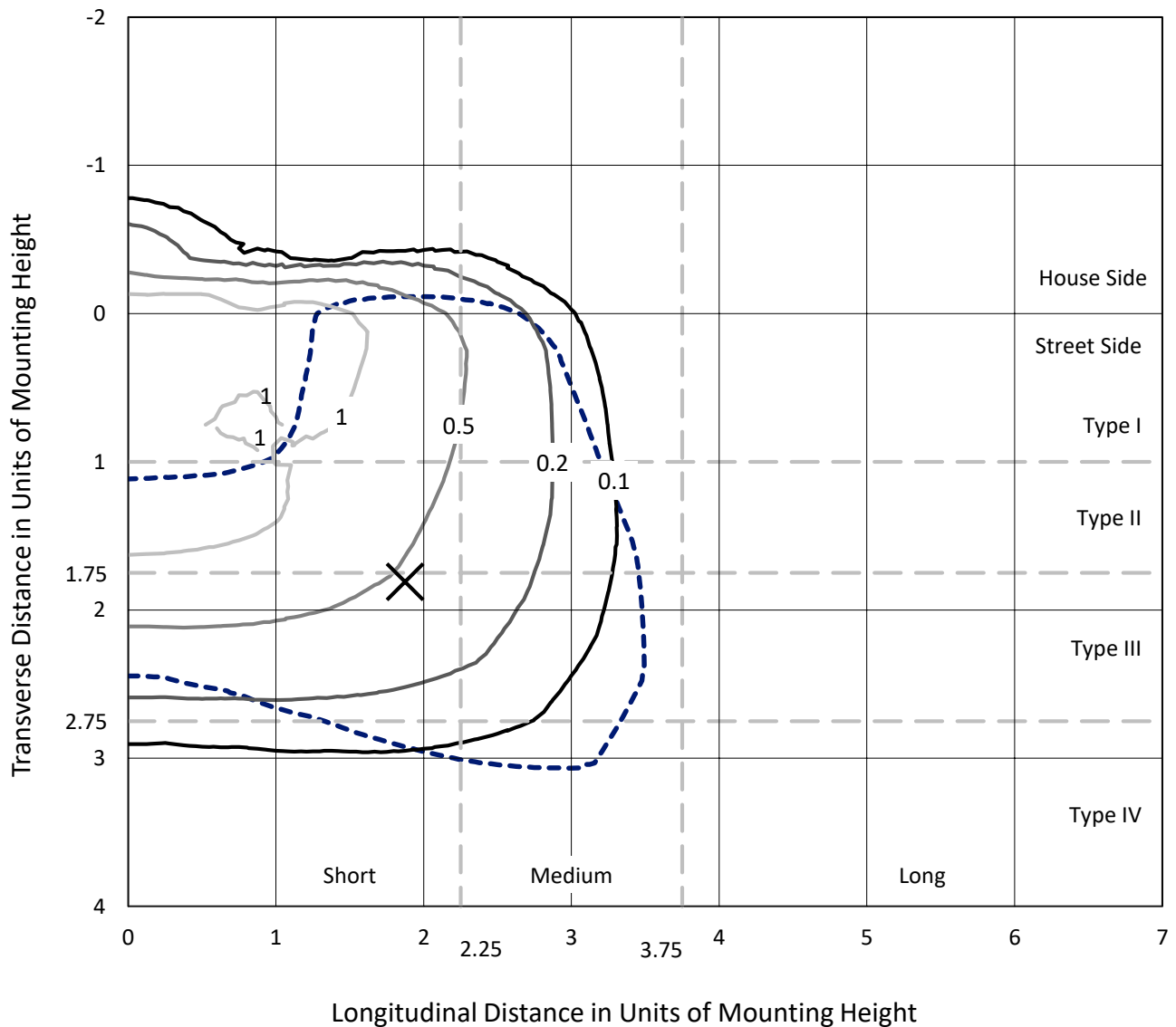


REPORT NUMBER: P348904

CATALOG NUMBER: ARCH-N-PA1-10-830-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

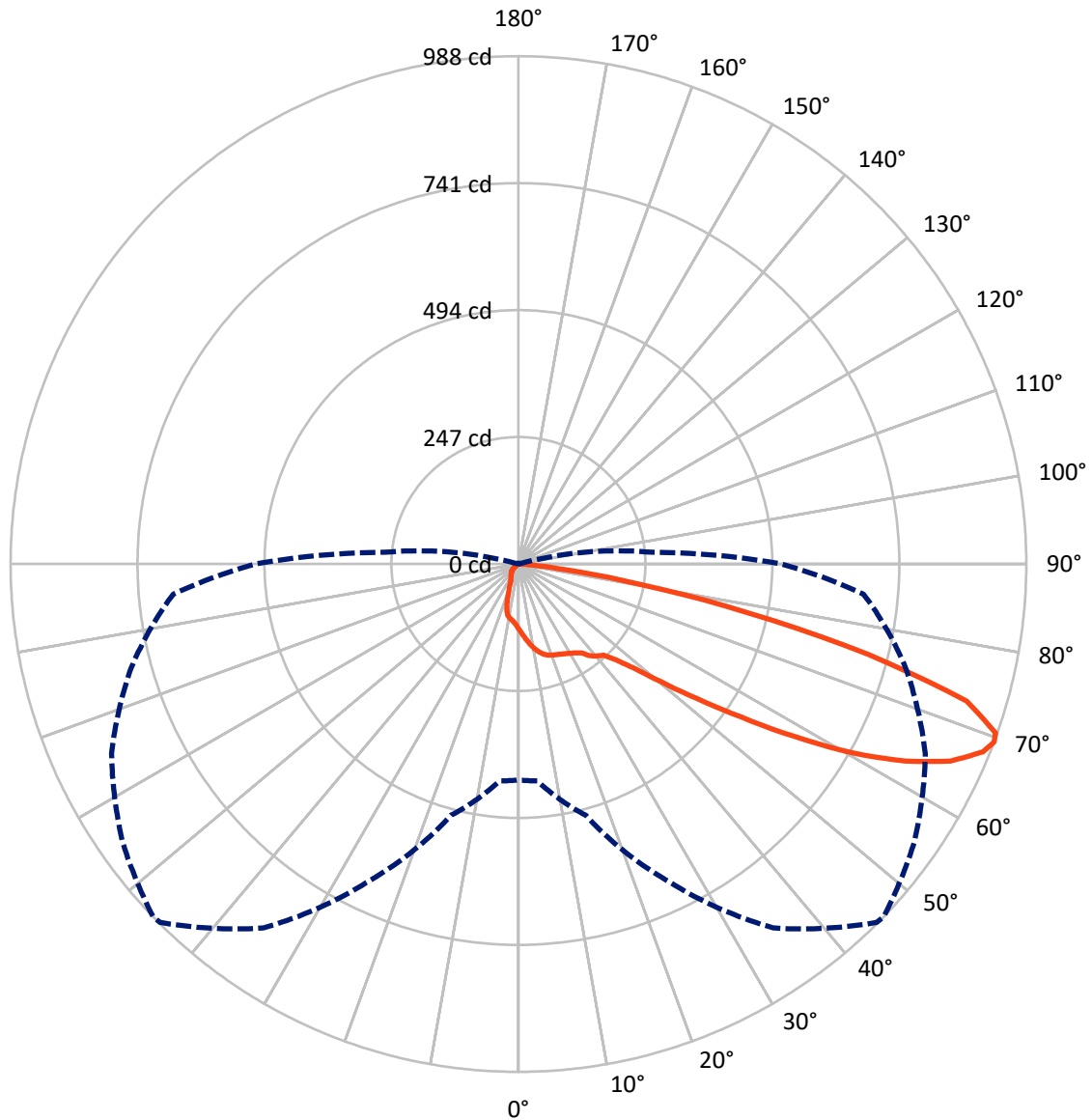


Based on 10 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P348904

CATALOG NUMBER: ARCH-N-PA1-10-830-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



REPORT NUMBER: P348904

CATALOG NUMBER: ARCH-N-PA1-10-830-U-T4W-HSS

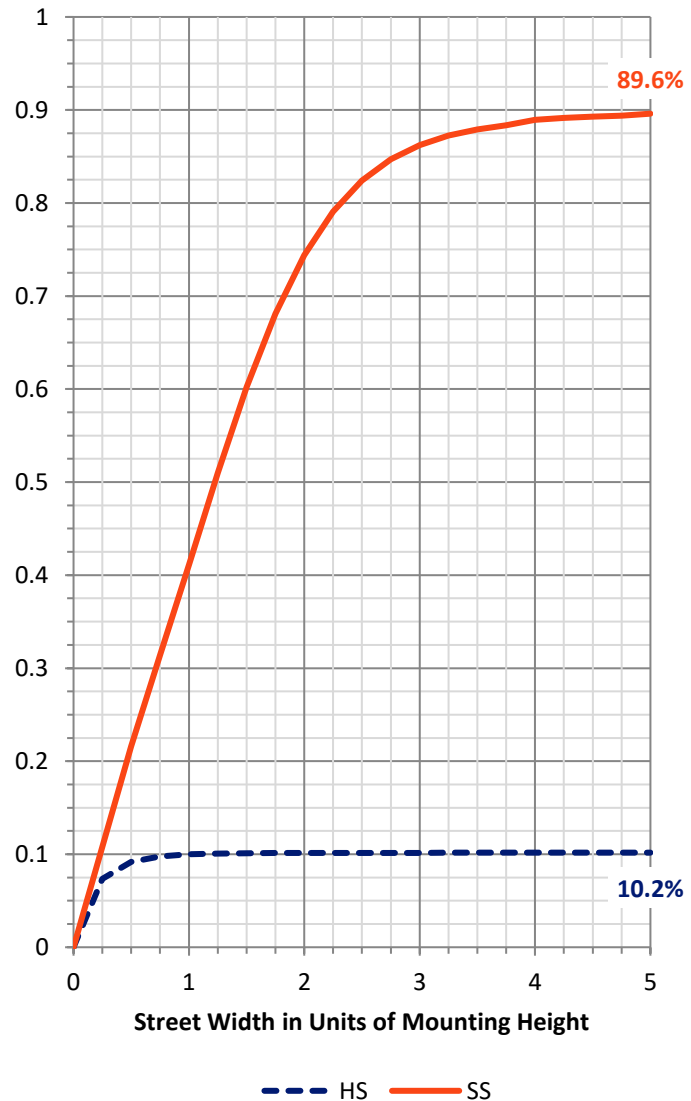
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	129.8	0.0	129.8
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	1135.2	0.0	1135.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	1265.0	0.0	1265.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.6	1.0
10°-20°	38.3	3.0
20°-30°	60.2	4.8
30°-40°	86.3	6.8
40°-50°	149.2	11.8
50°-60°	294.7	23.3
60°-70°	411.9	32.6
70°-80°	199.0	15.7
80°-90°	12.8	1.0
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°	1265.0	100.0
0°-180°	1265.0	100.0



REPORT NUMBER: P348904

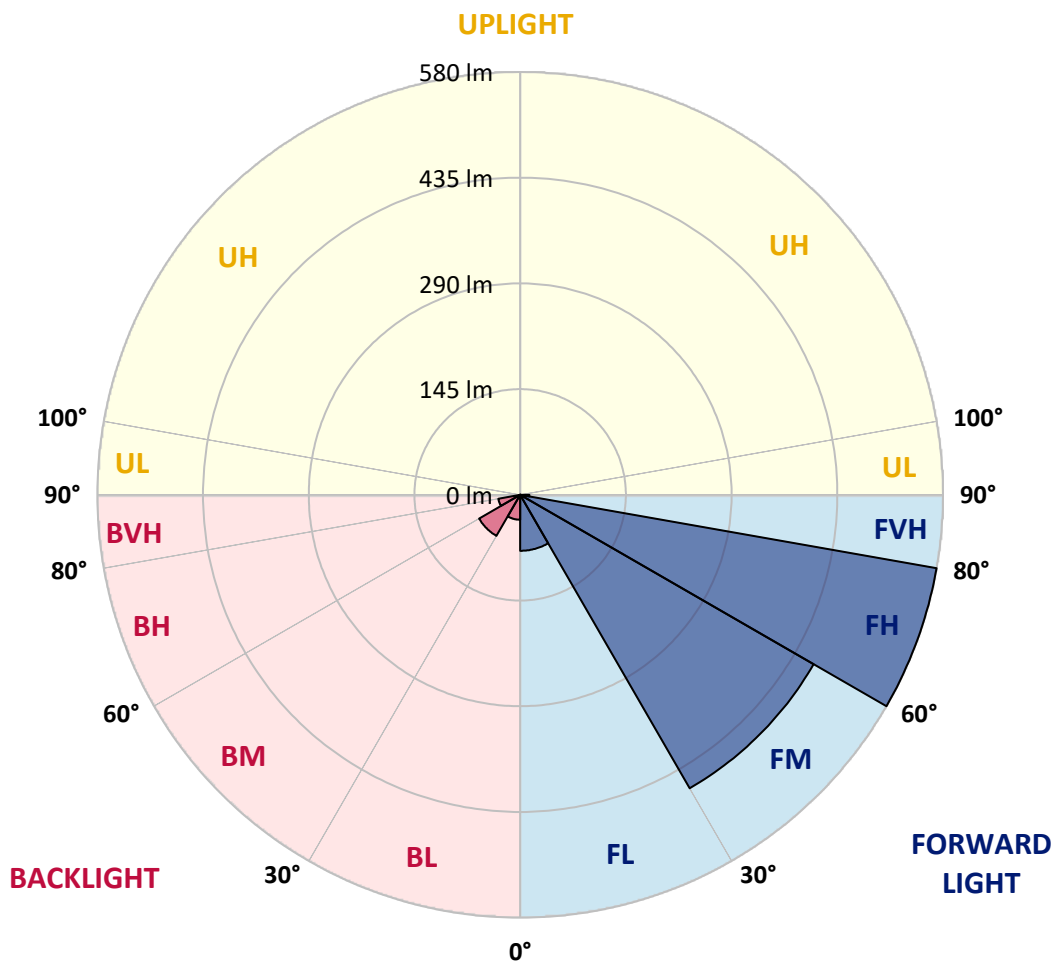
CATALOG NUMBER: ARCH-N-PA1-10-830-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	76.9	6.1			
FM	(30°-60°)	465.2	36.8			
FH	(60°-80°)	580.5	45.9			G0/660
FVH	(80°-90°)	12.7	1.0			G1/100
BL	(0°-30°)	34.2	2.7	B0/110		
BM	(30°-60°)	65.1	5.1	B0/220		
BH	(60°-80°)	30.4	2.4	B0/110		G0/110
BVH	(80°-90°)	0.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





REPORT NUMBER: P348904

CATALOG NUMBER: ARCH-N-PA1-10-830-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	126.7	126.7	126.7	126.7	126.7	126.7	126.7	126.7	126.7	126.7	126.7
2.5°	140.8	140.6	139.8	139.4	137.4	136.2	135.8	134.3	132.1	130.0	127.6
5°	156.8	156.8	155.2	153.7	149.9	146.4	145.7	142.3	137.5	133.0	128.5
7.5°	173.2	172.4	170.9	168.0	162.5	156.8	156.3	151.4	144.6	138.1	131.6
10°	187.1	186.6	184.6	180.2	173.8	167.3	166.7	160.7	153.0	145.0	136.7
12.5°	197.9	197.5	194.8	189.4	182.6	175.9	175.0	169.6	161.4	152.4	142.7
15°	204.4	204.3	201.0	195.3	188.5	182.7	181.9	177.2	169.6	160.2	149.2
17.5°	206.0	206.0	202.7	196.9	191.3	187.1	186.5	183.0	176.6	167.3	155.8
20°	202.5	203.3	200.2	195.2	191.8	189.6	189.1	186.9	181.6	172.8	161.0
22.5°	197.7	198.0	196.0	192.6	191.2	191.6	191.3	190.2	185.6	177.5	166.1
25°	194.7	194.7	193.5	190.6	191.6	194.1	194.2	193.9	190.3	183.3	172.4
27.5°	194.6	194.2	192.8	190.7	193.3	197.2	197.4	199.0	196.8	190.4	180.2
30°	199.3	198.9	195.9	193.1	196.4	200.7	201.2	204.7	203.6	198.0	189.0
32.5°	210.4	209.0	202.3	197.7	200.2	205.2	206.0	211.6	213.3	207.5	197.4
35°	225.6	220.9	211.3	206.3	206.6	211.9	212.6	220.8	226.0	216.1	203.9
37.5°	246.6	244.2	228.5	215.4	216.4	224.4	226.5	235.4	233.9	220.9	211.3
40°	292.5	288.8	272.1	240.6	225.9	234.6	235.3	240.0	240.2	231.6	226.7
42.5°	355.0	353.5	335.9	286.5	244.4	241.5	242.6	250.6	259.6	254.3	254.0
45°	424.2	423.4	404.7	347.3	282.0	263.8	265.3	276.0	293.2	294.4	301.9
47.5°	479.9	479.5	468.8	415.2	339.4	301.7	302.2	313.6	343.7	358.6	370.6
50°	530.7	532.4	523.9	488.7	417.7	361.1	360.0	367.6	416.0	440.3	455.3
52.5°	601.2	603.7	579.9	557.3	499.9	434.8	433.9	441.8	502.8	521.0	523.7
55°	663.6	659.4	640.6	634.1	600.1	525.7	525.5	532.5	586.8	594.5	599.5
57.5°	691.1	689.5	698.6	713.5	705.0	633.3	632.7	627.4	661.9	662.7	677.9
60°	708.5	710.4	738.2	784.3	805.6	749.0	745.5	713.0	733.7	731.8	748.0
62.5°	695.4	699.3	749.3	826.1	881.0	850.0	845.1	791.4	795.0	788.7	803.7
65°	626.1	632.1	714.2	818.3	918.3	928.9	924.0	860.6	843.7	833.3	824.9
67.5°	508.4	512.0	597.6	749.6	901.5	976.0	975.0	921.3	880.5	825.7	760.8
69°	420.2	423.7	506.1	677.4	864.4	986.1	988.1	940.7	873.5	779.9	674.1
70°	355.9	359.6	436.4	615.5	821.4	981.4	984.9	938.9	853.4	726.9	598.0
72.5°	186.7	189.9	268.7	424.0	669.6	901.2	911.8	859.5	723.4	527.9	353.6
75°	58.7	60.5	104.9	221.6	458.5	700.7	703.1	674.3	513.7	290.4	147.3
77.5°	22.4	21.8	34.9	81.7	231.8	441.2	456.1	421.3	269.6	102.7	34.0
80°	12.0	12.1	18.1	33.8	99.2	226.7	239.3	204.2	95.8	32.0	7.8
82.5°	5.2	5.5	10.2	17.9	45.6	83.6	89.9	74.9	36.6	21.5	2.9
85°	1.1	1.2	4.9	9.7	18.6	23.5	24.6	24.3	23.3	16.7	1.1
87.5°	0.0	0.0	2.2	3.5	4.7	5.3	4.7	6.1	12.9	11.3	0.6
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: P348904

CATALOG NUMBER: ARCH-N-PA1-10-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	126.7	126.7	126.7	126.7	126.7	126.7	126.7	126.7	126.7	126.7	126.7
2.5°	126.9	125.8	124.0	121.9	120.5	119.0	117.9	117.3	116.7	116.3	116.8
5°	126.6	124.6	121.0	117.6	115.1	113.0	111.4	110.7	110.1	109.6	109.5
7.5°	128.7	125.8	120.3	115.3	111.4	108.7	106.5	105.5	104.7	104.4	104.1
10°	132.7	128.9	121.6	115.1	110.1	105.5	100.6	96.9	94.4	93.3	92.9
12.5°	137.8	133.2	124.1	116.3	109.1	100.2	89.9	81.0	75.2	73.3	72.2
15°	143.9	138.1	127.4	117.9	105.4	89.1	71.6	60.0	54.7	53.6	52.4
17.5°	149.7	143.3	131.3	118.2	97.3	71.2	52.5	44.6	42.5	43.2	43.4
20°	154.8	148.5	135.2	115.6	82.7	53.4	40.6	38.7	39.4	40.8	41.0
22.5°	160.0	153.4	138.7	108.7	63.9	40.6	36.6	37.1	37.8	39.2	39.4
25°	166.2	159.5	142.1	96.1	48.0	34.5	34.8	35.5	36.2	37.5	37.6
27.5°	173.5	167.1	144.2	79.7	35.6	31.7	32.5	33.6	34.3	35.5	35.8
30°	183.1	177.2	145.0	62.6	29.8	29.2	29.6	30.9	32.0	33.1	33.3
32.5°	192.1	187.2	142.6	47.3	27.6	26.9	26.9	27.7	29.0	30.0	30.2
35°	200.4	197.2	135.0	34.6	26.0	24.8	24.2	24.2	25.0	25.9	26.1
37.5°	211.4	211.3	122.7	27.6	24.4	23.0	21.8	20.8	20.5	20.7	20.8
40°	230.2	230.4	106.7	24.7	23.0	21.2	19.3	17.6	16.0	15.4	15.4
42.5°	259.5	256.9	89.9	23.4	21.8	19.3	16.4	14.1	11.6	10.9	10.8
45°	306.2	290.3	72.1	22.1	20.6	17.1	13.6	10.4	8.4	7.8	7.8
47.5°	374.1	334.3	55.9	20.8	18.9	14.7	10.3	7.5	6.2	5.9	5.9
50°	444.3	377.3	42.8	19.0	16.9	12.2	7.6	5.5	4.7	4.7	4.7
52.5°	506.6	408.9	33.4	17.2	14.4	9.5	5.8	4.3	3.9	3.9	3.9
55°	564.9	429.2	25.6	15.1	11.4	7.1	4.4	3.5	3.3	3.1	3.1
57.5°	621.1	439.3	19.2	12.2	8.3	5.2	3.5	3.0	2.7	2.6	2.5
60°	658.5	431.1	13.2	9.0	5.8	3.7	2.9	2.6	2.3	2.1	2.0
62.5°	679.6	408.8	8.5	6.5	4.1	2.8	2.3	2.1	1.7	1.5	1.5
65°	671.1	371.9	5.9	4.6	3.0	2.1	1.7	1.7	1.2	1.0	0.9
67.5°	594.7	314.2	4.5	3.4	2.1	1.5	1.3	1.5	0.8	0.5	0.5
69°	511.7	260.4	3.9	2.8	1.8	1.2	1.1	1.4	0.5	0.4	0.3
70°	444.7	224.6	3.5	2.5	1.5	1.1	1.0	1.3	0.5	0.3	0.2
72.5°	266.1	125.3	2.7	1.8	0.9	0.8	0.8	1.5	0.5	0.3	0.2
75°	107.5	44.1	2.0	1.2	0.7	0.7	1.0	1.9	0.5	0.2	0.2
77.5°	24.4	9.7	1.1	0.8	0.5	0.7	1.2	1.5	0.3	0.1	0.0
80°	5.9	2.4	0.7	0.5	0.3	0.5	0.9	0.8	0.1	0.0	0.0
82.5°	2.0	0.8	0.3	0.2	0.1	0.2	0.4	0.2	0.0	0.0	0.0
85°	0.8	0.5	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0
87.5°	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)