

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: P348910

Luminaire Tested: **ARCH-N-PA1-60-830-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348910
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-PA1-60-830-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 1160mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4301 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

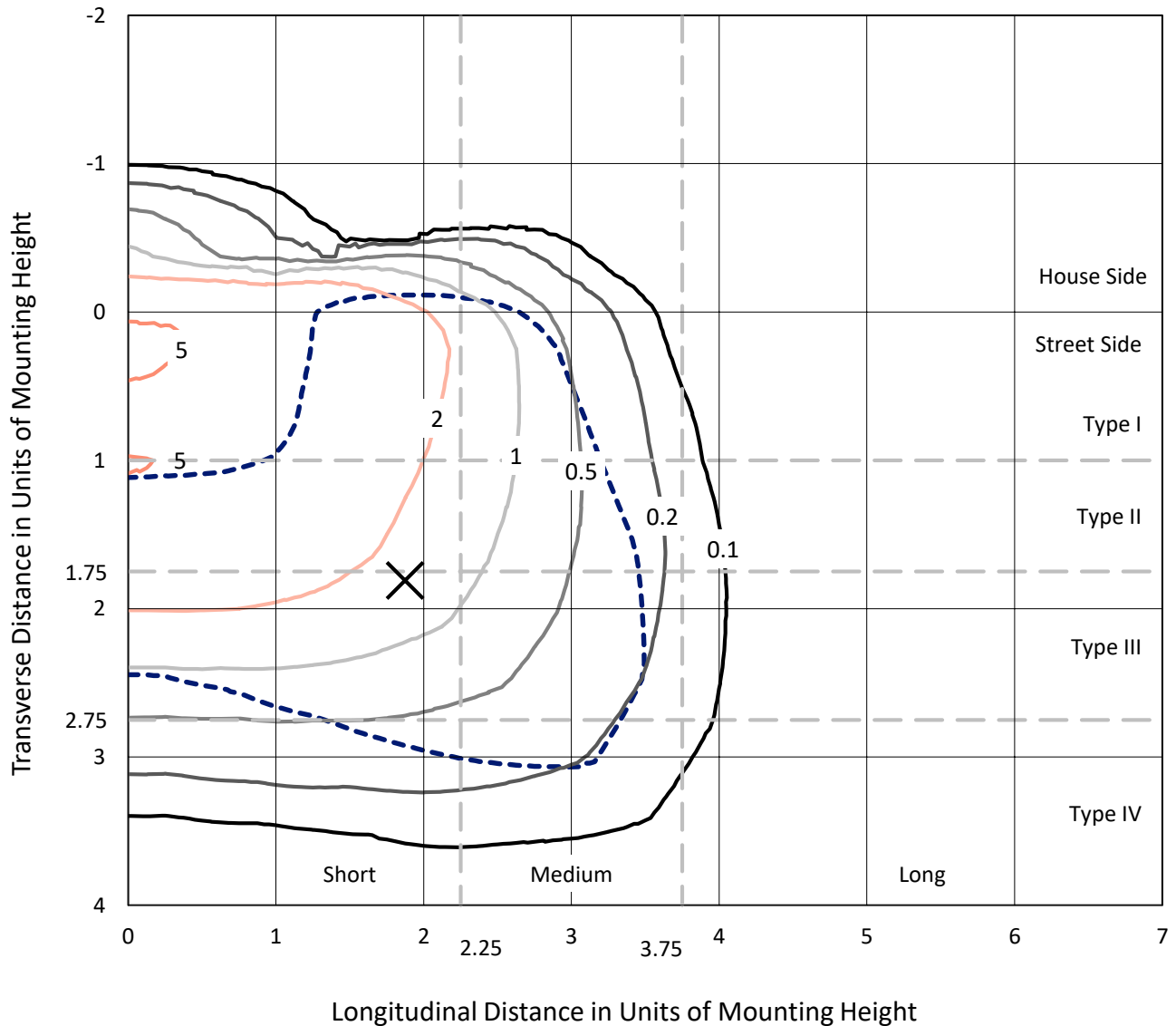
Input Watts (W): 62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

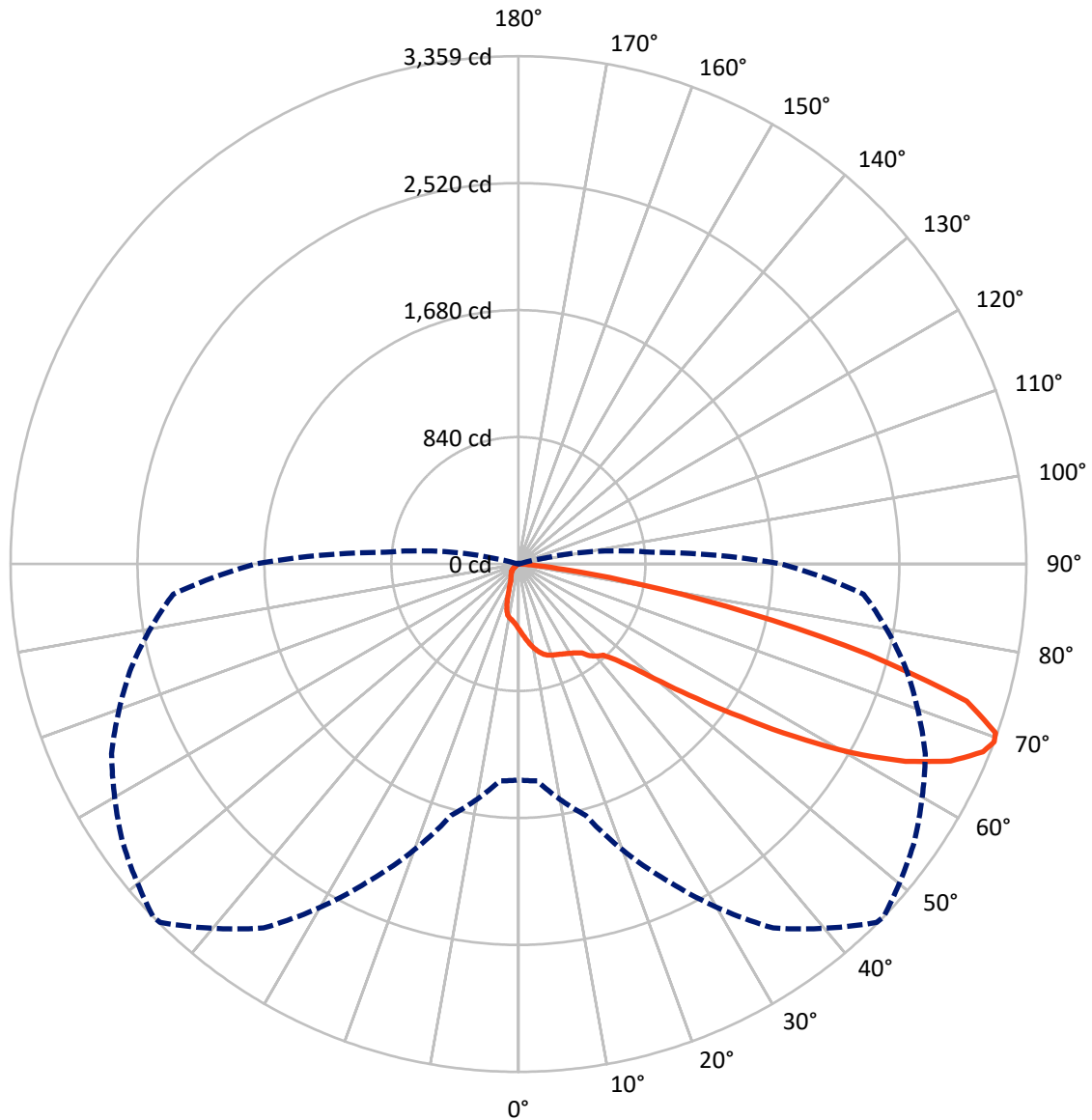


Based on 10 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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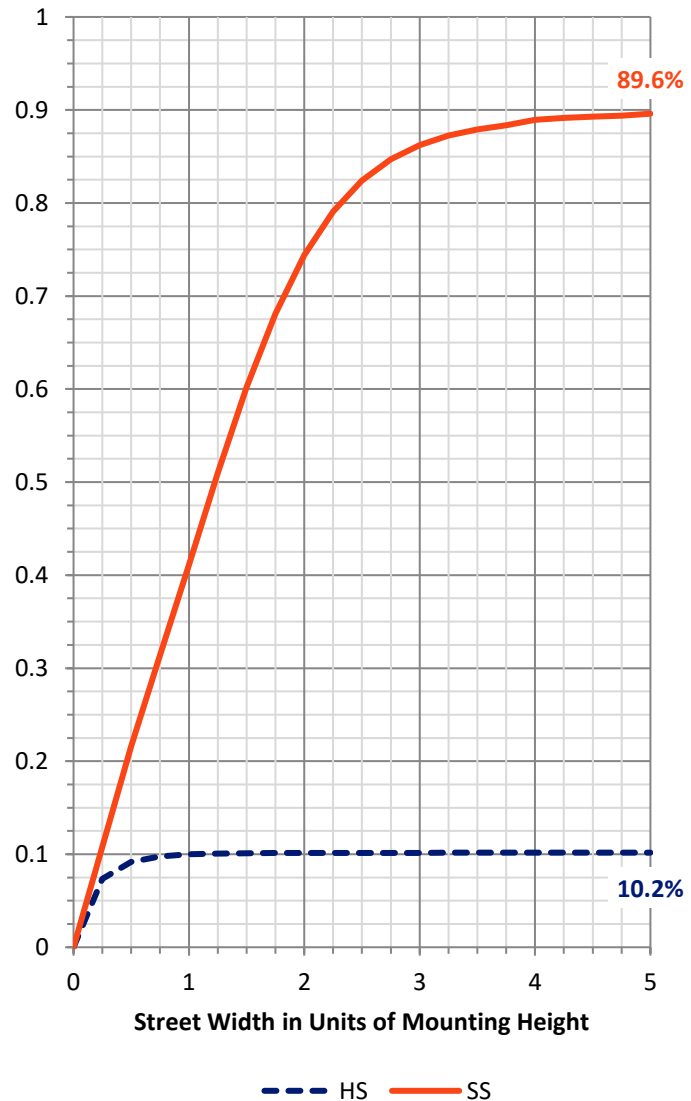
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	441.4	0.0	441.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	3859.6	0.0	3859.6
	% Fixture	89.7	0.0	89.7
Total	Lumens	4301.0	0.0	4301.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	1.0
10°-20°	130.1	3.0
20°-30°	204.6	4.8
30°-40°	293.5	6.8
40°-50°	507.2	11.8
50°-60°	1002.1	23.3
60°-70°	1400.5	32.6
70°-80°	676.6	15.7
80°-90°	43.5	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°	4301.0	100.0
0°-180°	4301.0	100.0



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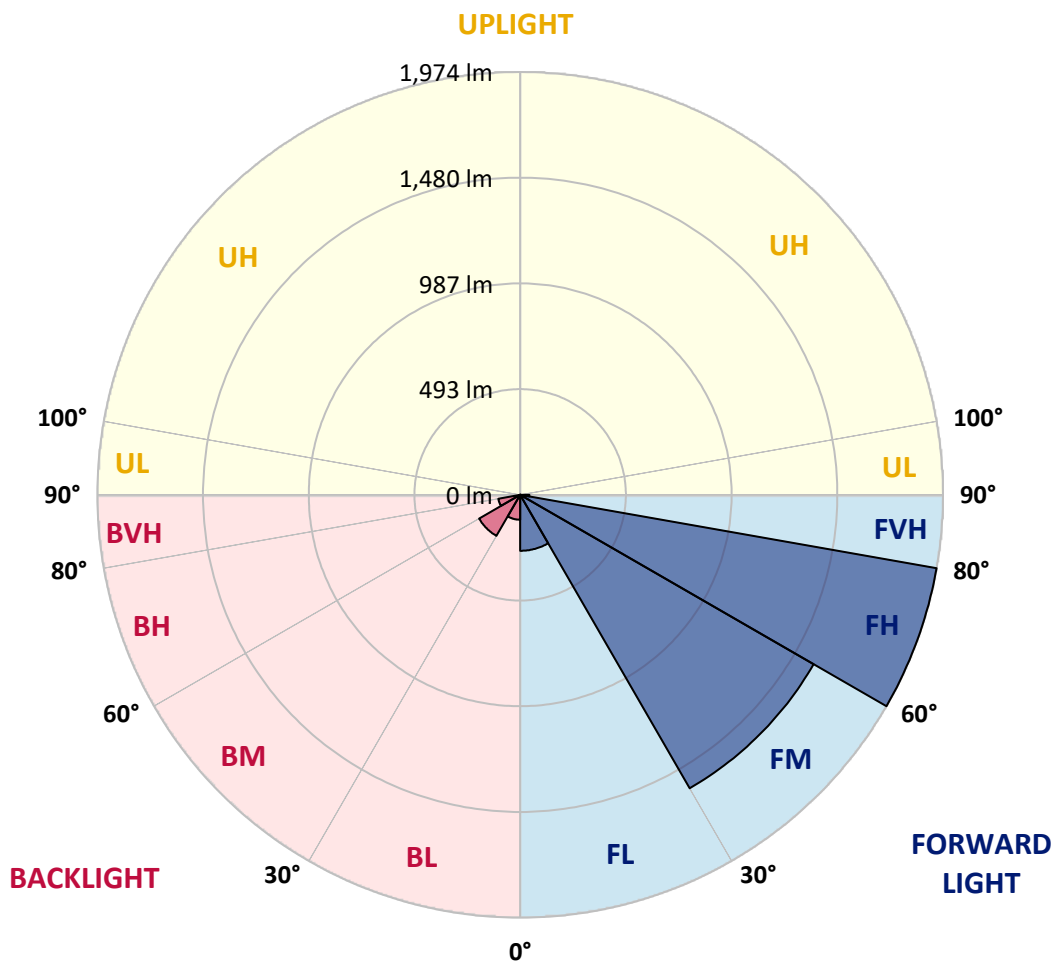
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	261.3	6.1			
FM	(30°-60°)	1581.6	36.8			
FH	(60°-80°)	1973.6	45.9			G2/5000
FVH	(80°-90°)	43.1	1.0			G1/100
BL	(0°-30°)	116.3	2.7	B1/500		
BM	(30°-60°)	221.2	5.1	B1/1000		
BH	(60°-80°)	103.5	2.4	B0/110		G0/110
BVH	(80°-90°)	0.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	430.9	430.9	430.9	430.9	430.9	430.9	430.9	430.9	430.9	430.9	430.9
2.5°	478.7	478.1	475.3	474.1	467.2	463.2	461.6	456.6	449.3	442.0	434.0
5°	533.2	533.0	527.7	522.7	509.8	497.7	495.5	483.8	467.4	452.1	436.8
7.5°	588.8	586.2	581.0	571.3	552.5	533.2	531.4	514.8	491.6	469.5	447.5
10°	636.0	634.4	627.6	612.8	590.9	568.9	566.7	546.3	520.1	492.9	464.8
12.5°	672.7	671.5	662.4	644.1	620.7	597.9	594.9	576.7	548.7	518.3	485.2
15°	695.1	694.5	683.4	663.9	640.9	621.1	618.5	602.6	576.5	544.7	507.4
17.5°	700.4	700.6	689.1	669.3	650.3	636.2	634.2	622.1	600.3	568.7	529.6
20°	688.7	691.1	680.8	663.7	652.0	644.5	642.9	635.6	617.3	587.4	547.3
22.5°	672.1	673.3	666.3	654.8	649.9	651.4	650.6	646.5	631.0	603.6	564.8
25°	662.0	662.0	657.8	648.1	651.4	660.0	660.2	659.4	647.1	623.3	586.2
27.5°	661.6	660.4	655.6	648.3	657.2	670.5	671.3	676.8	669.1	647.3	612.8
30°	677.8	676.4	666.1	656.6	667.9	682.2	684.2	696.1	692.3	673.3	642.5
32.5°	715.5	710.4	687.7	672.1	680.6	697.7	700.4	719.3	725.4	705.4	671.1
35°	767.1	751.2	718.3	701.6	702.4	720.3	722.7	750.6	768.5	734.8	693.3
37.5°	838.3	830.4	777.0	732.2	735.9	763.1	770.1	800.4	795.3	751.0	718.5
40°	994.4	982.1	925.2	818.1	767.9	797.8	800.0	816.1	816.5	787.5	770.9
42.5°	1206.9	1201.9	1142.0	974.0	831.0	821.0	825.0	852.2	882.7	864.5	863.7
45°	1442.3	1439.6	1376.1	1180.9	958.7	897.0	902.0	938.5	996.8	1000.8	1026.4
47.5°	1631.6	1630.4	1593.9	1411.8	1154.1	1025.8	1027.4	1066.2	1168.6	1219.2	1260.2
50°	1804.2	1810.1	1781.2	1661.7	1420.3	1227.7	1223.9	1249.7	1414.2	1497.1	1547.9
52.5°	2044.2	2052.5	1971.6	1894.8	1699.6	1478.2	1475.1	1502.2	1709.5	1771.6	1780.6
55°	2256.2	2242.0	2178.1	2155.9	2040.2	1787.5	1786.7	1810.5	1995.0	2021.4	2038.2
57.5°	2349.7	2344.3	2375.1	2426.0	2396.9	2153.1	2151.3	2133.1	2250.5	2253.3	2304.8
60°	2408.8	2415.5	2510.0	2666.7	2739.1	2546.5	2534.8	2424.1	2494.5	2488.3	2543.3
62.5°	2364.4	2377.6	2547.8	2808.9	2995.2	2890.0	2873.4	2690.7	2703.0	2681.5	2732.7
65°	2128.9	2149.3	2428.2	2782.1	3122.3	3158.4	3141.6	2926.1	2868.6	2833.1	2804.7
67.5°	1728.6	1740.7	2031.9	2548.8	3065.0	3318.5	3315.1	3132.4	2993.6	2807.5	2586.9
69°	1428.5	1440.4	1720.8	2303.1	2939.0	3352.8	3359.4	3198.5	2969.8	2651.8	2292.1
70°	1210.0	1222.7	1483.8	2092.6	2792.8	3336.8	3348.7	3192.3	2901.7	2471.5	2033.3
72.5°	634.6	645.5	913.5	1441.7	2276.7	3064.0	3100.1	2922.4	2459.6	1795.0	1202.3
75°	199.4	205.7	356.7	753.6	1558.8	2382.4	2390.7	2292.5	1746.6	987.3	500.7
77.5°	76.0	74.2	118.8	277.7	788.1	1500.1	1550.8	1432.6	916.5	349.1	115.6
80°	40.9	41.1	61.7	114.9	337.2	770.9	813.7	694.3	325.7	108.9	26.6
82.5°	17.7	18.6	34.7	60.9	154.9	284.3	305.7	254.5	124.4	73.2	9.9
85°	3.8	4.2	16.7	33.1	63.1	79.9	83.7	82.5	79.3	56.9	3.8
87.5°	0.0	0.0	7.5	11.9	15.9	18.1	15.9	20.8	43.8	38.3	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	430.9	430.9	430.9	430.9	430.9	430.9	430.9	430.9	430.9	430.9	430.9
2.5°	431.3	427.7	421.5	414.6	409.8	404.7	400.7	398.9	396.9	395.5	397.3
5°	430.5	423.5	411.4	399.7	391.2	384.4	378.7	376.5	374.3	372.7	372.5
7.5°	437.6	427.7	409.2	392.0	378.9	369.6	362.0	358.8	356.1	354.9	353.9
10°	451.1	438.4	413.6	391.2	374.3	358.5	342.0	329.3	321.0	317.2	315.8
12.5°	468.7	452.7	422.1	395.5	370.8	340.6	305.5	275.3	255.7	249.2	245.4
15°	489.2	469.5	433.2	400.9	358.3	303.1	243.6	204.1	185.9	182.3	178.3
17.5°	509.0	487.2	446.5	401.9	330.9	242.2	178.5	151.6	144.6	147.0	147.6
20°	526.3	504.8	459.6	393.0	281.1	181.7	138.1	131.5	134.1	138.7	139.5
22.5°	543.9	521.7	471.7	369.6	217.4	137.9	124.4	126.0	128.7	133.3	134.1
25°	565.2	542.3	483.0	326.7	163.1	117.4	118.2	120.6	123.2	127.4	127.9
27.5°	589.9	568.3	490.4	270.8	121.0	107.9	110.5	114.1	116.8	120.8	121.6
30°	622.5	602.6	492.9	213.0	101.4	99.4	100.6	105.1	108.9	112.5	113.1
32.5°	653.2	636.4	484.8	160.7	94.0	91.6	91.6	94.2	98.6	102.0	102.8
35°	681.4	670.5	459.0	117.6	88.3	84.3	82.3	82.3	85.1	87.9	88.7
37.5°	718.7	718.3	417.2	93.8	82.9	78.2	74.0	70.8	69.8	70.4	70.8
40°	782.6	783.2	362.8	84.1	78.2	72.0	65.5	59.7	54.2	52.4	52.2
42.5°	882.5	873.4	305.7	79.5	74.2	65.5	55.9	48.0	39.5	36.9	36.7
45°	1041.0	987.1	245.2	75.2	70.0	58.3	46.2	35.5	28.6	26.6	26.6
47.5°	1271.9	1136.5	190.0	70.6	64.3	50.0	34.9	25.6	21.0	20.0	20.2
50°	1510.6	1283.0	145.6	64.7	57.5	41.3	25.8	18.6	15.9	15.9	16.1
52.5°	1722.4	1390.2	113.5	58.5	49.0	32.5	19.6	14.5	13.3	13.1	13.3
55°	1920.6	1459.4	86.9	51.2	38.9	24.2	14.9	11.9	11.1	10.7	10.5
57.5°	2111.8	1493.7	65.1	41.3	28.2	17.5	11.9	10.1	9.3	8.7	8.5
60°	2239.0	1465.9	44.8	30.5	19.6	12.7	9.9	8.7	7.7	7.1	6.9
62.5°	2310.8	1389.8	28.8	22.0	13.9	9.5	7.9	7.3	5.8	5.2	5.2
65°	2281.8	1264.4	20.2	15.7	10.1	7.1	5.8	5.8	4.2	3.4	3.2
67.5°	2022.0	1068.2	15.3	11.7	7.3	5.2	4.4	5.0	2.6	1.6	1.6
69°	1739.7	885.3	13.1	9.7	6.0	4.2	3.8	4.6	1.8	1.2	1.0
70°	1512.0	763.7	11.9	8.5	5.0	3.6	3.4	4.4	1.8	1.0	0.8
72.5°	904.6	425.9	9.1	6.0	3.2	2.8	2.8	5.0	1.8	1.0	0.8
75°	365.6	150.0	6.7	4.2	2.4	2.4	3.4	6.5	1.6	0.8	0.6
77.5°	82.9	32.9	3.8	2.6	1.6	2.4	4.0	5.0	1.0	0.4	0.0
80°	20.2	8.1	2.4	1.6	1.0	1.8	3.0	2.8	0.2	0.0	0.0
82.5°	6.7	2.8	1.0	0.8	0.2	0.6	1.4	0.8	0.0	0.0	0.0
85°	2.8	1.6	0.4	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0
87.5°	1.8	0.6	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)