

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: P348975

Luminaire Tested: **ARCH-N-PA1-19-727-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348975
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1908-474-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-19-727-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 370mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1804 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B0 - U0 - G0

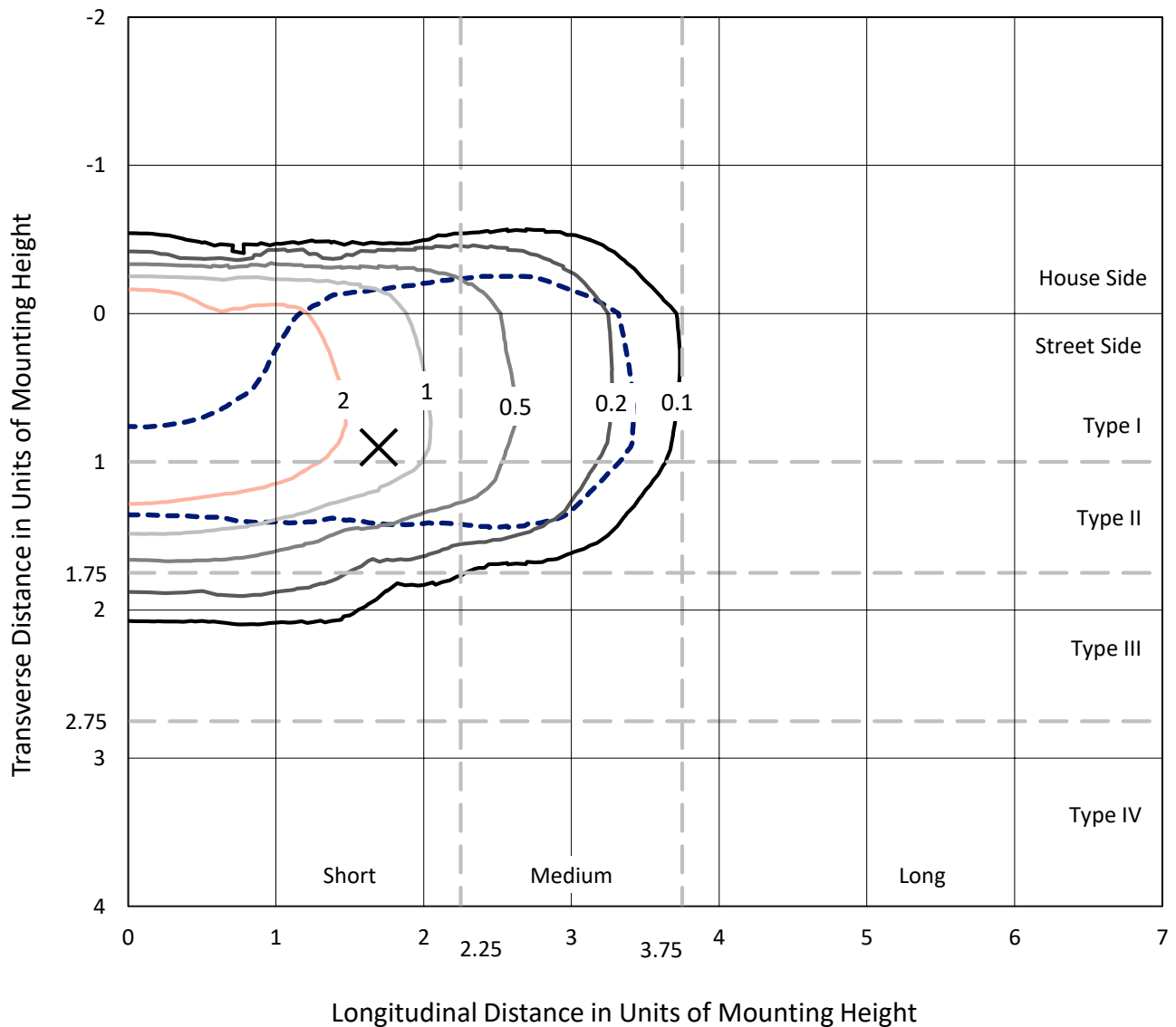
Input Watts (W): 19
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

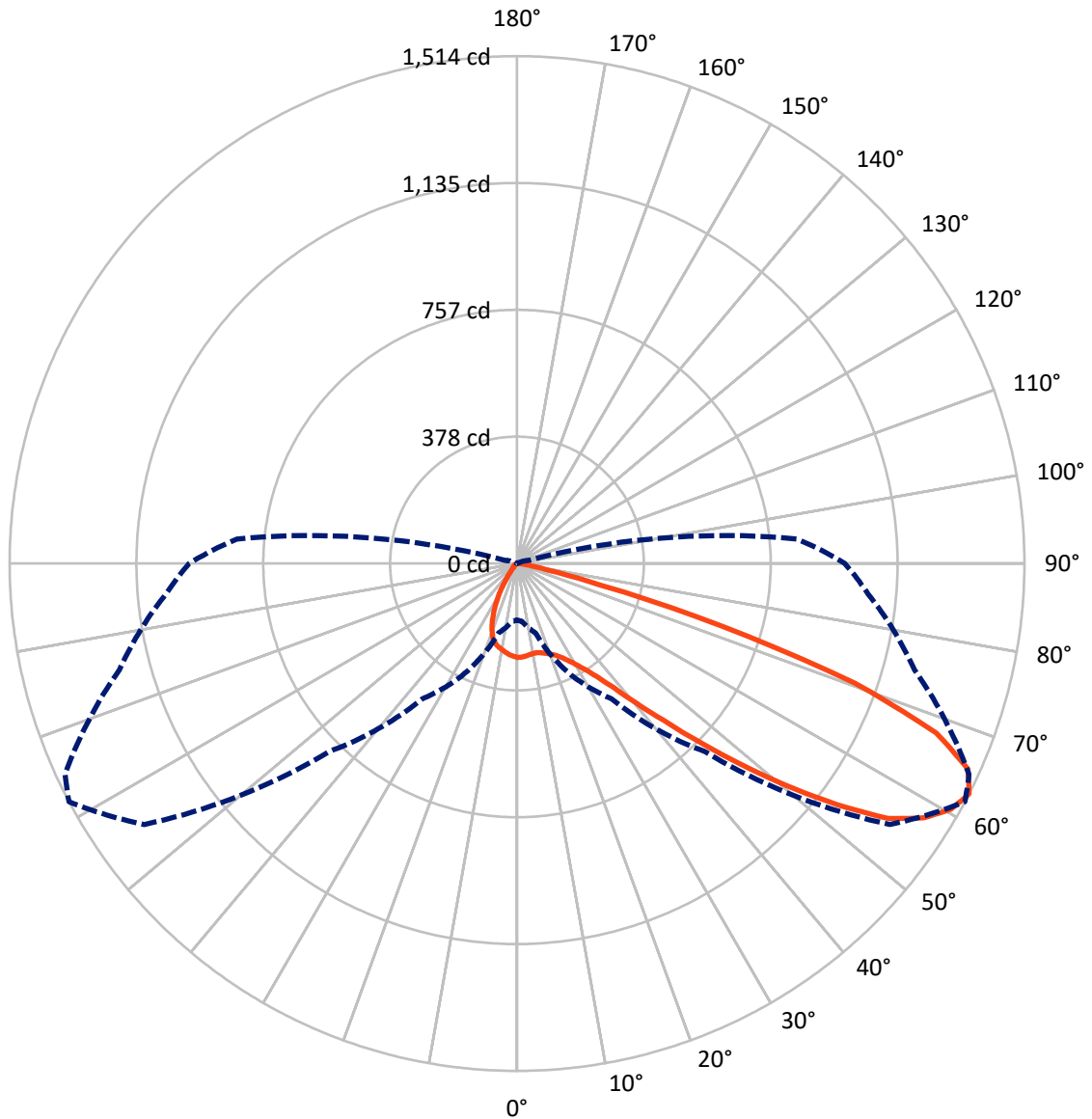
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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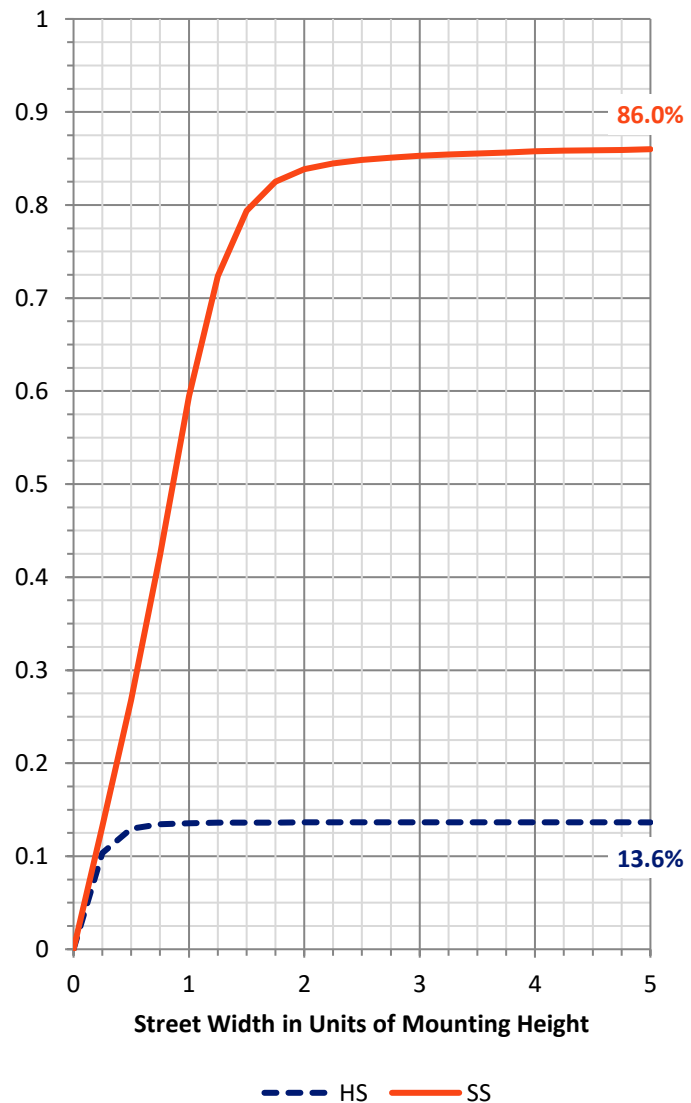
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	249.1	0.0	249.1
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	1554.9	0.0	1554.9
	% Fixture	86.2	0.0	86.2
Total	Lumens	1804.0	0.0	1804.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.5	1.4
10°-20°	64.1	3.6
20°-30°	95.7	5.3
30°-40°	182.3	10.1
40°-50°	380.1	21.1
50°-60°	505.0	28.0
60°-70°	393.7	21.8
70°-80°	148.8	8.2
80°-90°	8.9	0.5
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°	1804.0	100.0
0°-180°	1804.0	100.0

Coefficient of Utilization



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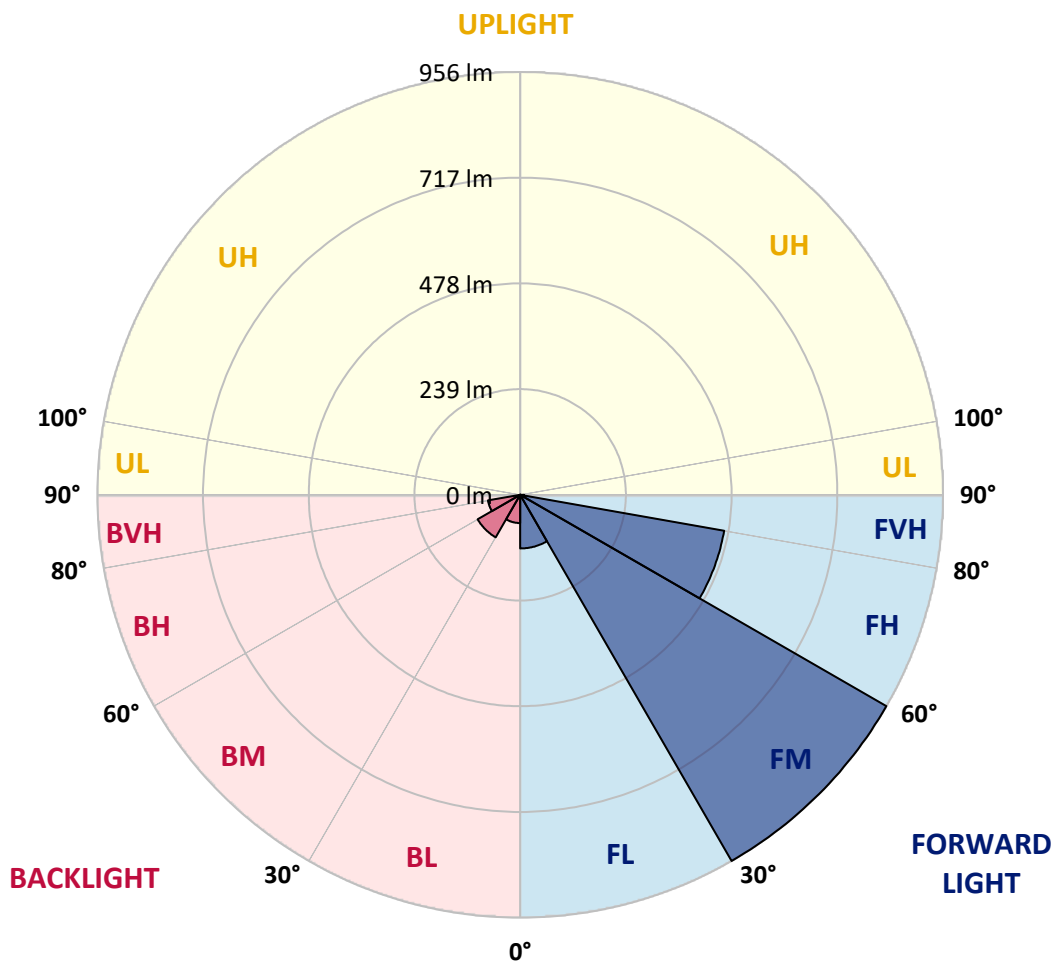
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	121.4	6.7			
FM	(30°-60°)	956.5	53.0			
FH	(60°-80°)	468.6	26.0			G0/660
FVH	(80°-90°)	8.5	0.5			G0/10
BL	(0°-30°)	63.9	3.5	B0/110		
BM	(30°-60°)	110.9	6.1	B0/220		
BH	(60°-80°)	73.9	4.1	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: B0-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	280.3	280.3	280.3	280.3	280.3	280.3	280.3	280.3	280.3	280.3	280.3
2.5°	279.3	278.9	280.0	280.0	279.8	280.3	279.8	279.6	279.3	278.9	278.4
5°	272.0	272.0	273.7	274.4	275.1	276.5	277.0	277.4	277.2	277.7	277.9
7.5°	263.5	264.0	265.9	266.8	268.0	270.8	272.5	274.4	274.6	276.3	277.2
10°	256.5	256.9	258.8	260.0	261.6	265.4	269.0	272.3	272.7	275.8	276.5
12.5°	251.7	252.2	254.1	255.8	259.3	264.0	269.0	272.7	273.9	277.7	277.7
15°	249.9	250.3	252.7	255.5	260.2	266.4	272.5	276.5	278.9	281.9	280.5
17.5°	249.2	250.1	254.1	258.3	263.5	270.1	277.7	281.9	284.3	287.6	284.5
20°	251.3	252.5	257.6	263.5	269.0	275.8	284.0	288.8	291.1	293.2	287.3
22.5°	258.8	260.7	265.2	271.8	276.0	284.3	292.5	297.9	300.5	300.3	292.5
25°	277.0	279.3	281.4	285.0	286.9	296.8	305.5	310.9	312.8	312.1	303.1
27.5°	319.9	322.9	315.4	307.6	303.4	312.6	322.2	327.9	329.5	328.1	314.4
30°	392.2	392.5	375.3	350.7	332.6	331.7	343.4	351.0	351.0	348.2	330.5
32.5°	497.6	490.1	468.4	425.0	384.0	362.5	371.5	378.8	378.8	375.3	355.0
35°	630.1	624.4	588.6	536.5	463.4	412.0	410.1	417.2	417.5	416.5	393.4
37.5°	764.9	751.0	721.1	658.6	572.8	488.2	465.5	470.5	474.0	473.6	444.8
40°	890.3	876.4	851.2	791.1	707.1	600.4	546.2	546.2	546.4	544.0	509.4
42.5°	988.8	982.5	963.6	921.9	857.1	776.9	654.8	636.9	633.1	630.8	585.3
45°	1052.7	1046.1	1036.0	1027.2	1006.3	977.5	800.7	753.8	747.7	724.6	669.2
47.5°	1056.2	1046.1	1052.9	1085.9	1133.3	1148.2	980.8	890.1	873.8	832.1	753.3
50°	977.5	978.5	1005.1	1085.2	1213.2	1297.8	1171.7	1040.0	1014.3	930.8	827.6
52.5°	832.8	842.2	883.5	1006.7	1217.0	1393.6	1337.9	1194.6	1143.7	1019.5	879.9
55°	652.0	660.5	727.9	861.3	1125.3	1407.2	1458.8	1342.6	1275.2	1081.2	926.8
57.5°	461.1	477.1	560.8	683.3	950.4	1302.8	1491.8	1431.3	1366.0	1141.3	970.9
60°	280.3	288.3	375.3	517.9	716.3	1084.3	1453.2	1487.8	1435.0	1193.4	1012.2
62.5°	168.5	173.3	215.0	356.6	492.9	793.9	1357.5	1513.8	1487.8	1228.1	1051.8
65°	99.7	102.8	122.3	215.4	328.4	487.0	1150.8	1478.2	1499.2	1258.0	1074.9
67.5°	71.9	72.8	79.9	116.0	220.4	260.9	800.3	1348.5	1427.0	1267.9	1061.2
70°	62.0	63.2	70.0	81.6	156.0	153.9	416.5	1067.3	1209.7	1216.3	1003.4
72.5°	46.9	49.0	60.3	76.6	112.0	109.4	157.0	636.4	821.2	998.5	865.1
75°	31.8	33.0	44.8	65.1	87.5	81.6	82.3	255.5	401.7	626.1	594.5
77.5°	20.0	21.0	27.3	46.7	75.0	57.5	58.2	90.8	145.0	265.4	254.8
80°	13.7	14.1	16.5	30.2	50.7	50.0	37.5	47.4	54.0	81.8	54.9
82.5°	8.3	8.3	10.8	17.9	30.6	39.6	23.6	26.2	28.8	30.4	12.5
85°	2.8	3.1	6.6	11.1	18.9	19.8	13.4	15.6	16.3	17.7	5.9
87.5°	1.2	0.9	3.5	6.1	8.0	9.2	7.8	7.1	7.8	10.4	2.6
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°	280.3	280.3	280.3	280.3	280.3	280.3	280.3	280.3	280.3	280.3	280.3
2.5°	278.6	277.7	277.7	277.4	276.0	275.3	274.6	272.7	273.9	272.5	271.5
5°	277.2	276.5	275.3	274.1	270.8	268.0	266.8	264.5	264.2	262.4	261.4
7.5°	277.0	275.3	273.4	269.4	264.5	260.0	256.0	252.0	250.3	248.2	247.0
10°	275.8	273.7	270.1	263.8	256.5	249.4	240.4	229.4	221.1	216.4	215.7
12.5°	276.0	273.7	268.2	258.8	249.2	233.6	209.6	184.3	163.6	154.9	153.5
15°	277.9	275.3	267.1	254.3	237.8	203.7	159.6	120.9	94.1	84.4	82.3
17.5°	280.3	275.8	264.5	248.0	216.2	157.9	100.4	63.4	48.3	42.9	42.0
20°	281.7	275.6	260.2	238.3	183.2	105.6	54.7	37.2	32.8	31.6	31.1
22.5°	285.2	276.3	256.7	223.2	141.7	63.6	34.7	29.0	26.4	25.0	24.8
25°	292.5	281.0	256.9	203.7	99.2	38.4	28.1	23.6	21.2	19.8	19.3
27.5°	303.1	289.5	261.4	179.4	61.3	29.0	23.3	19.1	16.5	15.3	15.1
30°	316.6	299.8	266.6	147.8	38.2	24.3	18.9	14.9	13.0	12.3	12.0
32.5°	337.8	317.7	271.1	110.6	26.4	20.0	14.9	11.8	10.6	9.9	9.9
35°	372.9	348.6	278.4	74.0	21.0	16.0	12.0	9.7	8.7	8.3	8.3
37.5°	422.4	392.7	281.9	46.0	17.2	12.5	9.7	8.0	7.3	6.8	6.8
40°	482.7	446.2	277.0	28.5	14.4	10.1	8.0	6.8	6.1	5.9	5.9
42.5°	552.3	507.7	261.4	20.3	12.0	8.3	6.8	5.9	5.4	5.2	5.2
45°	630.1	575.1	233.4	17.0	10.1	7.1	5.9	5.0	4.7	4.5	4.5
47.5°	707.6	643.5	197.1	14.6	8.5	5.9	5.0	4.2	4.0	3.8	3.8
50°	775.3	703.4	158.6	12.7	7.1	5.2	4.2	3.5	3.3	3.1	3.1
52.5°	813.9	739.0	122.8	10.6	6.1	4.5	3.3	2.8	2.6	2.4	2.4
55°	855.6	768.7	91.7	9.0	5.0	3.8	2.6	2.1	1.9	1.7	1.7
57.5°	894.5	795.3	68.1	7.3	4.2	2.8	2.1	1.7	1.4	1.2	1.2
60°	932.3	817.9	50.4	5.9	3.5	2.4	1.7	1.2	0.9	0.7	0.7
62.5°	978.2	838.7	37.0	4.7	3.1	1.7	1.2	0.7	0.5	0.2	0.2
65°	1012.4	849.3	27.8	3.5	2.6	1.2	0.7	0.5	0.0	0.0	0.0
67.5°	1012.2	828.8	20.3	2.6	1.9	0.9	0.5	0.0	0.0	0.0	0.0
70°	964.8	766.5	14.1	2.1	1.4	0.7	0.2	0.0	0.0	0.0	0.0
72.5°	827.4	606.3	9.2	1.4	1.2	0.5	0.2	0.0	0.0	0.0	0.0
75°	558.4	307.8	5.4	1.2	0.9	0.5	0.2	0.0	0.0	0.0	0.0
77.5°	238.8	120.9	2.8	0.7	0.7	0.2	0.0	0.0	0.0	0.0	0.0
80°	50.0	29.2	1.2	0.5	0.5	0.2	0.0	0.0	0.0	0.0	0.0
82.5°	8.5	4.2	0.5	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.1	1.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.5	0.2	0.2	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)