

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: P348870

Luminaire Tested: **ARCH-N-PA1-19-730-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348870
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-PA1-19-730-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 370mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1945 lumens
Efficiency: N/A
Efficacy: 102.4 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): 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

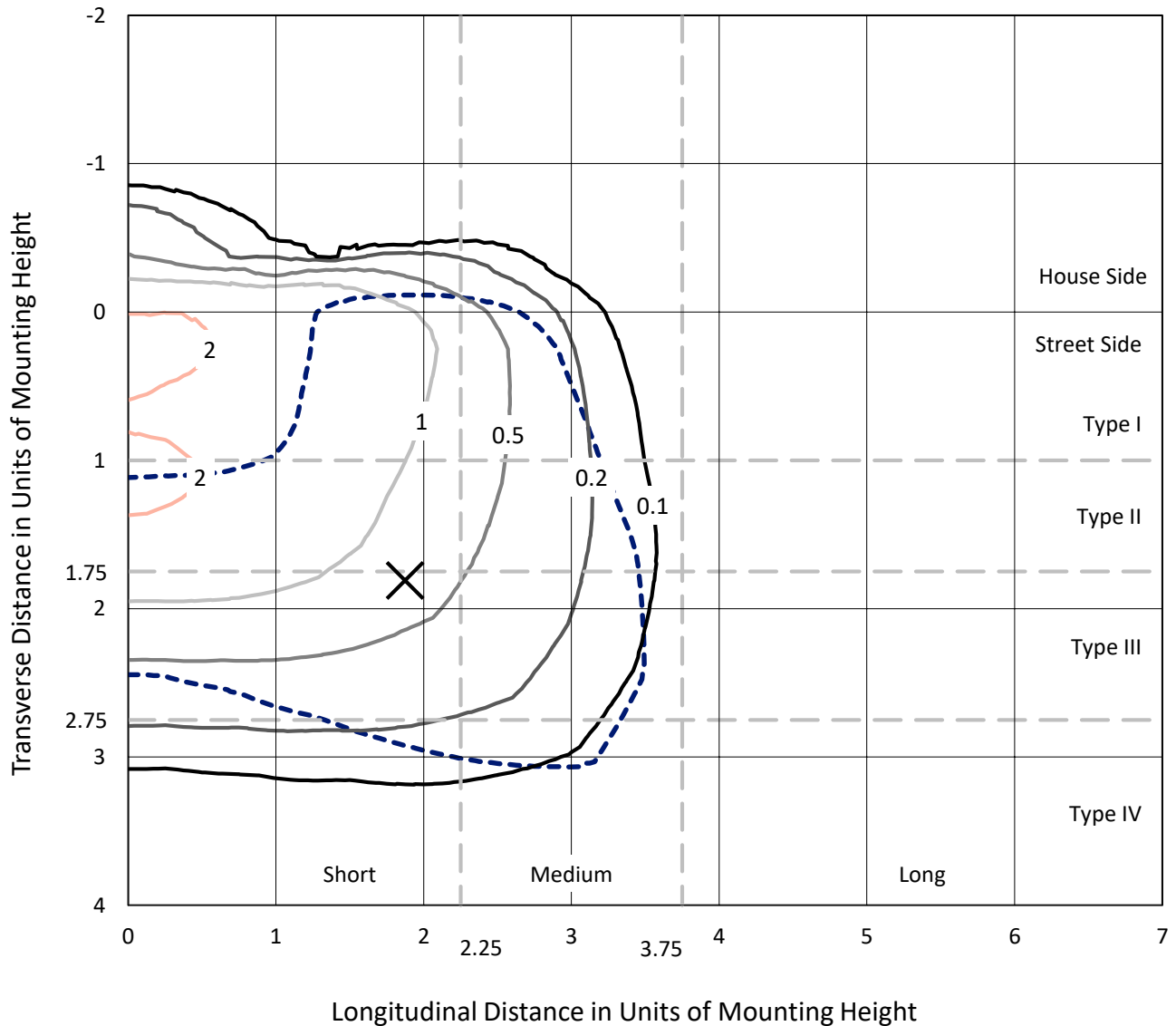


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

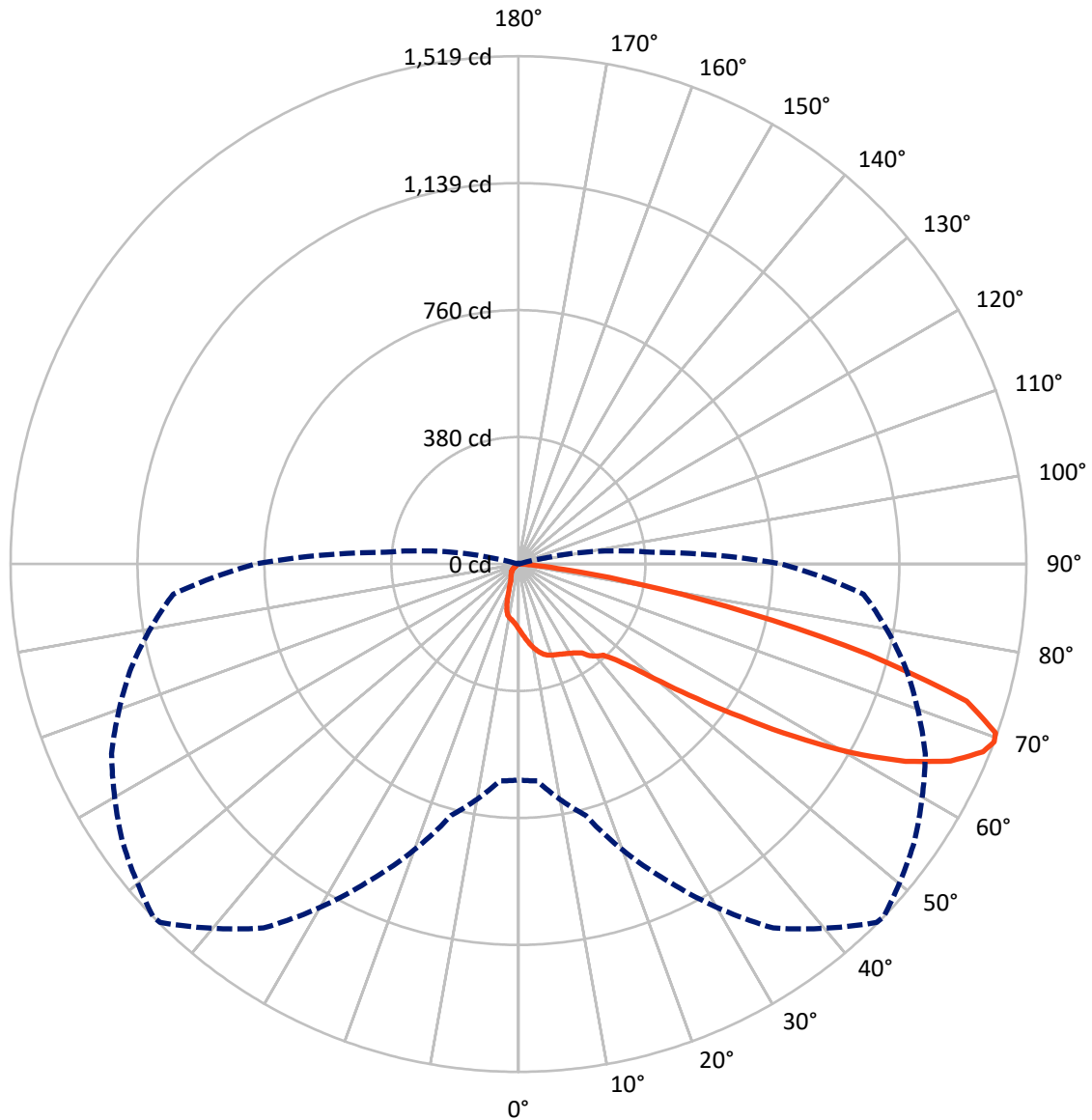


Based on 10 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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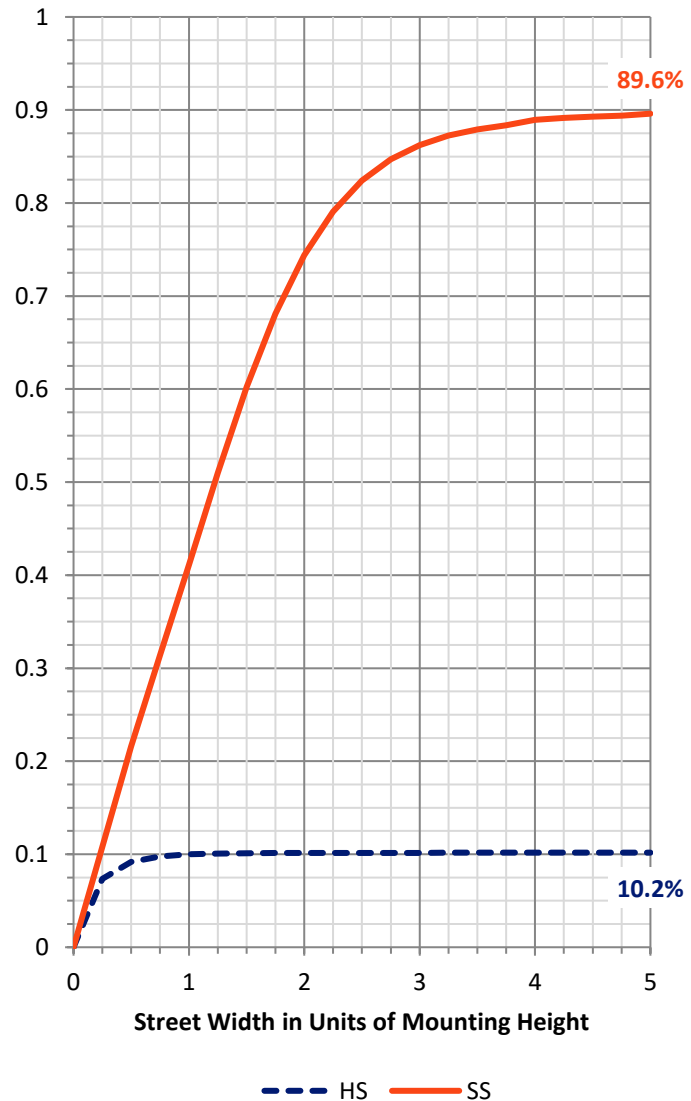
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	199.6	0.0	199.6
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	1745.4	0.0	1745.4
	% Fixture	89.7	0.0	89.7
Total	Lumens	1945.0	0.0	1945.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.4	1.0
10°-20°	58.8	3.0
20°-30°	92.5	4.8
30°-40°	132.7	6.8
40°-50°	229.4	11.8
50°-60°	453.2	23.3
60°-70°	633.3	32.6
70°-80°	306.0	15.7
80°-90°	19.7	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°	1945.0	100.0
0°-180°	1945.0	100.0



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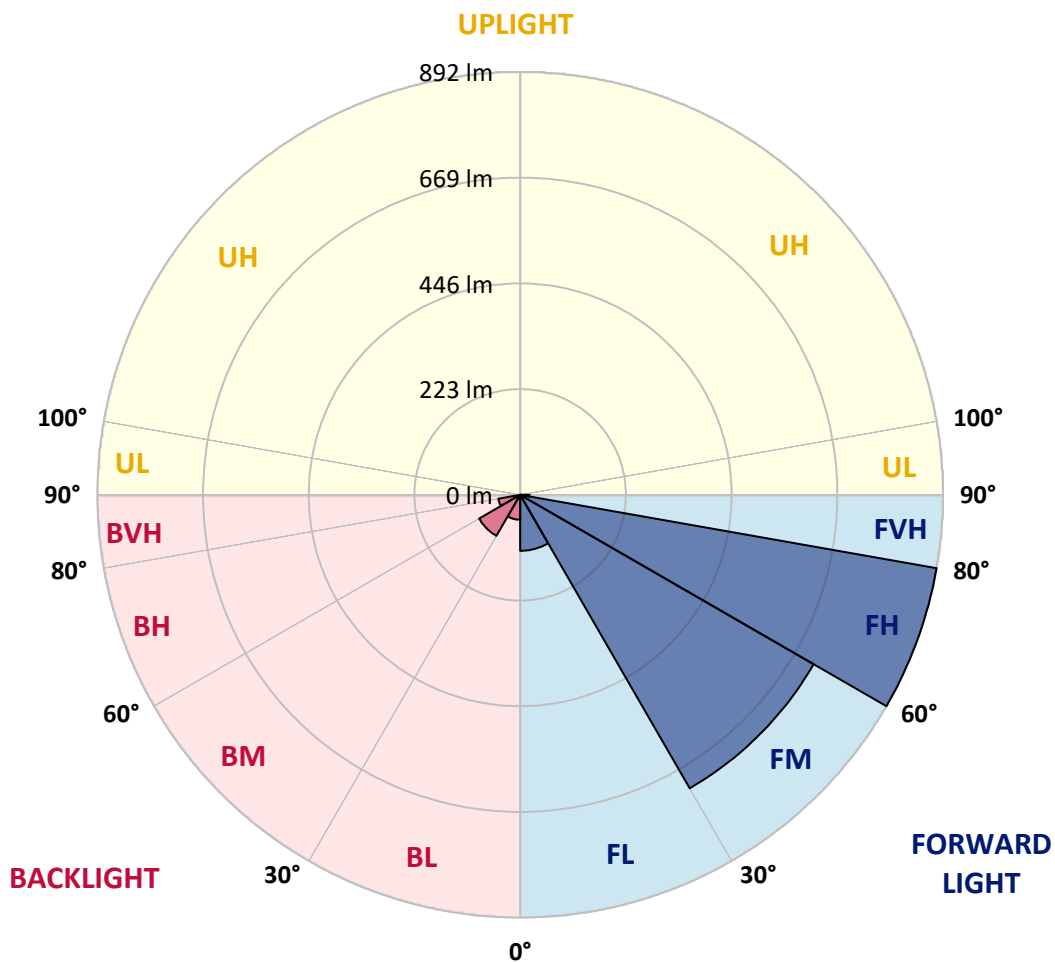
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	118.2	6.1			
FM	(30°-60°)	715.2	36.8			
FH	(60°-80°)	892.5	45.9			G1/1800
FVH	(80°-90°)	19.5	1.0			G1/100
BL	(0°-30°)	52.6	2.7	B0/110		
BM	(30°-60°)	100.0	5.1	B0/220		
BH	(60°-80°)	46.8	2.4	B0/110		G0/110
BVH	(80°-90°)	0.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	194.9	194.9	194.9	194.9	194.9	194.9	194.9	194.9	194.9	194.9	194.9
2.5°	216.5	216.2	214.9	214.4	211.3	209.5	208.7	206.5	203.2	199.9	196.2
5°	241.1	241.0	238.7	236.4	230.5	225.1	224.1	218.8	211.4	204.5	197.5
7.5°	266.3	265.1	262.7	258.4	249.9	241.1	240.3	232.8	222.3	212.3	202.4
10°	287.6	286.9	283.8	277.1	267.2	257.3	256.3	247.0	235.2	222.9	210.2
12.5°	304.2	303.7	299.6	291.3	280.7	270.4	269.0	260.8	248.1	234.4	219.4
15°	314.3	314.1	309.1	300.2	289.8	280.9	279.7	272.5	260.7	246.3	229.4
17.5°	316.7	316.8	311.6	302.7	294.1	287.7	286.8	281.3	271.5	257.2	239.5
20°	311.4	312.5	307.9	300.1	294.8	291.5	290.7	287.4	279.1	265.6	247.5
22.5°	303.9	304.5	301.3	296.1	293.9	294.6	294.2	292.4	285.3	272.9	255.4
25°	299.4	299.4	297.5	293.1	294.6	298.5	298.6	298.2	292.6	281.9	265.1
27.5°	299.2	298.7	296.5	293.2	297.2	303.2	303.6	306.0	302.6	292.7	277.1
30°	306.5	305.9	301.2	296.9	302.0	308.5	309.4	314.8	313.1	304.5	290.5
32.5°	323.6	321.3	311.0	303.9	307.8	315.5	316.7	325.3	328.0	319.0	303.5
35°	346.9	339.7	324.8	317.3	317.6	325.7	326.8	339.4	347.5	332.3	313.5
37.5°	379.1	375.5	351.4	331.1	332.8	345.1	348.3	361.9	359.7	339.6	324.9
40°	449.7	444.1	418.4	370.0	347.3	360.8	361.8	369.1	369.2	356.1	348.6
42.5°	545.8	543.5	516.4	440.5	375.8	371.3	373.1	385.4	399.2	390.9	390.6
45°	652.2	651.0	622.3	534.0	433.5	405.6	407.9	424.4	450.8	452.6	464.2
47.5°	737.9	737.3	720.8	638.4	521.9	463.9	464.6	482.1	528.5	551.4	569.9
50°	815.9	818.6	805.5	751.4	642.3	555.2	553.5	565.1	639.5	677.0	700.0
52.5°	924.4	928.2	891.6	856.9	768.6	668.5	667.1	679.3	773.1	801.1	805.2
55°	1020.3	1013.9	985.0	975.0	922.6	808.3	808.0	818.7	902.2	914.1	921.7
57.5°	1062.6	1060.1	1074.1	1097.1	1083.9	973.7	972.9	964.7	1017.7	1019.0	1042.3
60°	1089.3	1092.3	1135.1	1206.0	1238.7	1151.6	1146.3	1096.2	1128.1	1125.2	1150.1
62.5°	1069.3	1075.2	1152.1	1270.2	1354.5	1306.9	1299.4	1216.8	1222.4	1212.6	1235.8
65°	962.7	971.9	1098.1	1258.1	1412.0	1428.3	1420.7	1323.2	1297.2	1281.2	1268.3
67.5°	781.7	787.2	918.9	1152.6	1386.1	1500.7	1499.1	1416.5	1353.8	1269.6	1169.8
69°	646.0	651.4	778.2	1041.5	1329.1	1516.2	1519.2	1446.4	1343.0	1199.2	1036.5
70°	547.2	552.9	671.0	946.3	1262.9	1509.0	1514.4	1443.6	1312.2	1117.7	919.5
72.5°	287.0	291.9	413.1	651.9	1029.6	1385.6	1401.9	1321.6	1112.3	811.7	543.7
75°	90.2	93.0	161.3	340.8	704.9	1077.4	1081.1	1036.7	789.8	446.5	226.4
77.5°	34.4	33.6	53.7	125.6	356.4	678.4	701.3	647.8	414.5	157.9	52.3
80°	18.5	18.6	27.9	52.0	152.5	348.6	368.0	314.0	147.3	49.2	12.0
82.5°	8.0	8.4	15.7	27.5	70.0	128.6	138.3	115.1	56.3	33.1	4.5
85°	1.7	1.9	7.6	15.0	28.5	36.1	37.8	37.3	35.8	25.7	1.7
87.5°	0.0	0.0	3.4	5.4	7.2	8.2	7.2	9.4	19.8	17.3	0.9
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°	194.9	194.9	194.9	194.9	194.9	194.9	194.9	194.9	194.9	194.9	194.9
2.5°	195.1	193.4	190.6	187.5	185.3	183.0	181.2	180.4	179.5	178.8	179.7
5°	194.7	191.5	186.0	180.7	176.9	173.8	171.3	170.3	169.3	168.5	168.4
7.5°	197.9	193.4	185.0	177.3	171.4	167.2	163.7	162.2	161.0	160.5	160.0
10°	204.0	198.3	187.0	176.9	169.3	162.1	154.7	148.9	145.2	143.4	142.8
12.5°	211.9	204.7	190.9	178.8	167.7	154.0	138.2	124.5	115.6	112.7	111.0
15°	221.2	212.3	195.9	181.3	162.1	137.1	110.2	92.3	84.1	82.4	80.6
17.5°	230.2	220.3	201.9	181.7	149.6	109.5	80.7	68.6	65.4	66.5	66.8
20°	238.0	228.3	207.8	177.7	127.1	82.2	62.5	59.5	60.6	62.7	63.1
22.5°	246.0	235.9	213.3	167.2	98.3	62.4	56.3	57.0	58.2	60.3	60.6
25°	255.6	245.2	218.4	147.7	73.8	53.1	53.4	54.5	55.7	57.6	57.8
27.5°	266.7	257.0	221.8	122.5	54.7	48.8	50.0	51.6	52.8	54.6	55.0
30°	281.5	272.5	222.9	96.3	45.9	45.0	45.5	47.5	49.2	50.9	51.2
32.5°	295.4	287.8	219.2	72.7	42.5	41.4	41.4	42.6	44.6	46.1	46.5
35°	308.1	303.2	207.6	53.2	39.9	38.1	37.2	37.2	38.5	39.8	40.1
37.5°	325.0	324.8	188.7	42.4	37.5	35.4	33.5	32.0	31.6	31.8	32.0
40°	353.9	354.2	164.1	38.0	35.4	32.6	29.6	27.0	24.5	23.7	23.6
42.5°	399.1	395.0	138.3	35.9	33.6	29.6	25.3	21.7	17.9	16.7	16.6
45°	470.7	446.4	110.9	34.0	31.6	26.4	20.9	16.1	12.9	12.0	12.0
47.5°	575.2	514.0	85.9	31.9	29.1	22.6	15.8	11.6	9.5	9.0	9.1
50°	683.1	580.2	65.8	29.3	26.0	18.7	11.7	8.4	7.2	7.2	7.3
52.5°	778.9	628.7	51.3	26.4	22.2	14.7	8.8	6.6	6.0	5.9	6.0
55°	868.5	660.0	39.3	23.2	17.6	10.9	6.7	5.4	5.0	4.8	4.7
57.5°	955.0	675.5	29.5	18.7	12.8	7.9	5.4	4.6	4.2	3.9	3.8
60°	1012.5	662.9	20.2	13.8	8.8	5.7	4.5	3.9	3.5	3.2	3.1
62.5°	1045.0	628.5	13.0	9.9	6.3	4.3	3.6	3.3	2.6	2.4	2.4
65°	1031.9	571.8	9.1	7.1	4.6	3.2	2.6	2.6	1.9	1.6	1.5
67.5°	914.4	483.1	6.9	5.3	3.3	2.4	2.0	2.3	1.2	0.7	0.7
69°	786.7	400.3	5.9	4.4	2.7	1.9	1.7	2.1	0.8	0.5	0.5
70°	683.8	345.4	5.4	3.8	2.3	1.6	1.6	2.0	0.8	0.5	0.4
72.5°	409.1	192.6	4.1	2.7	1.5	1.3	1.3	2.3	0.8	0.5	0.4
75°	165.3	67.8	3.0	1.9	1.1	1.1	1.6	2.9	0.7	0.4	0.3
77.5°	37.5	14.9	1.7	1.2	0.7	1.1	1.8	2.3	0.5	0.2	0.0
80°	9.1	3.6	1.1	0.7	0.5	0.8	1.4	1.3	0.1	0.0	0.0
82.5°	3.0	1.3	0.5	0.4	0.1	0.3	0.6	0.4	0.0	0.0	0.0
85°	1.3	0.7	0.2	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0
87.5°	0.8	0.3	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)