

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: P348863

Luminaire Tested: **ARCH-N-PA1-19-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348863
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-PA1-19-727-U-T4W-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: 1786 lumens
Efficiency: N/A
Efficacy: 94.0 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

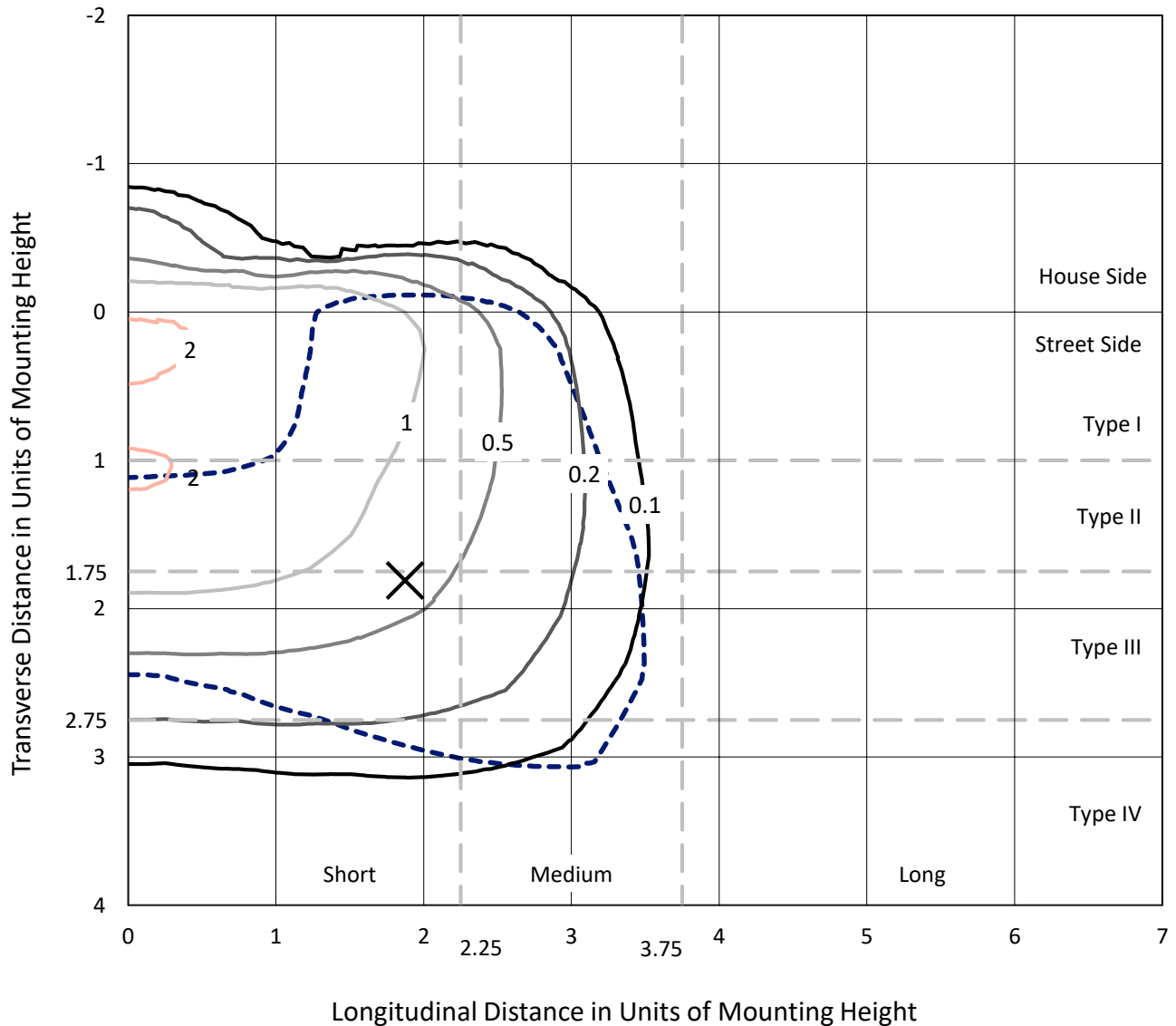


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

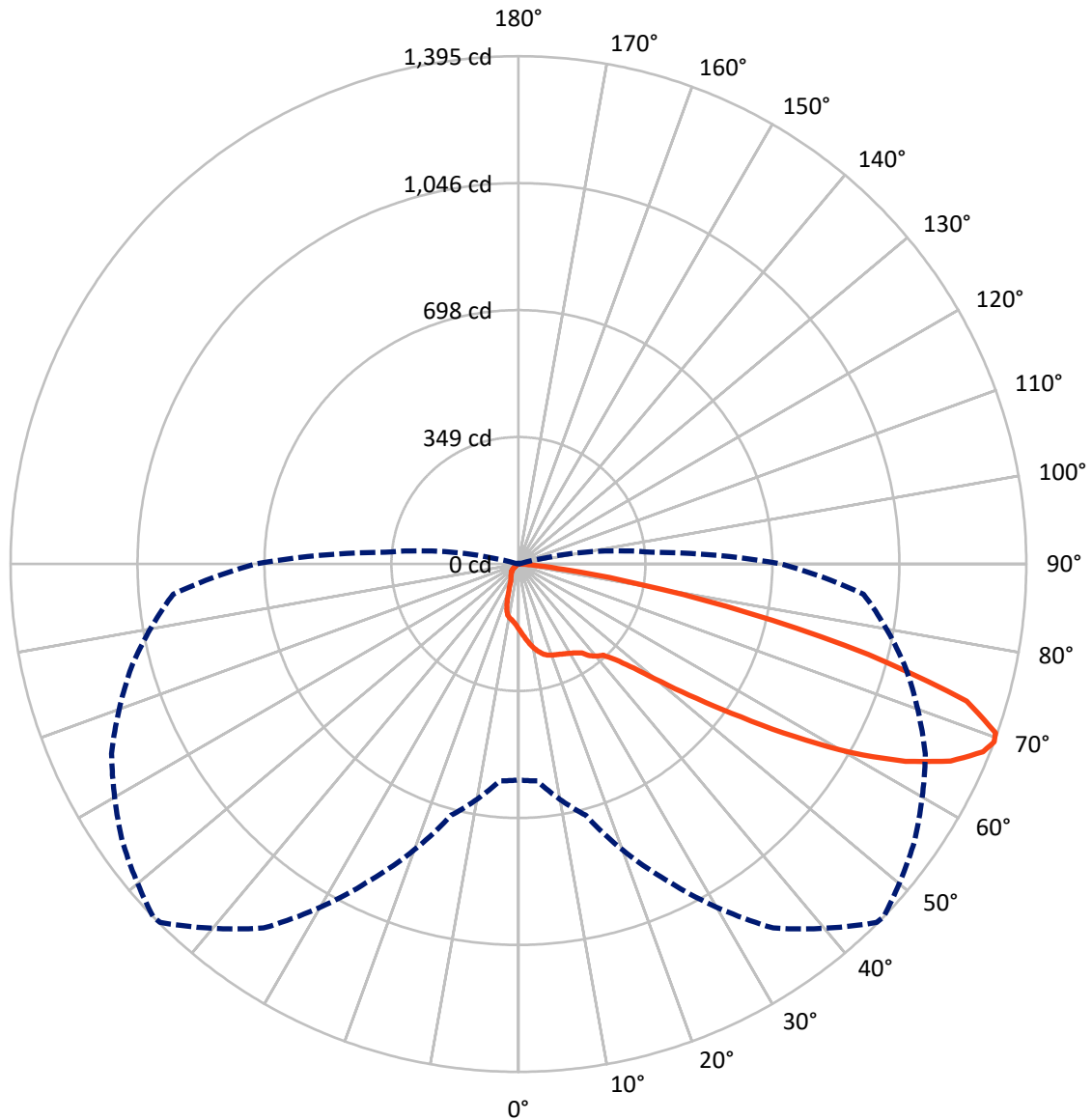


Based on 10 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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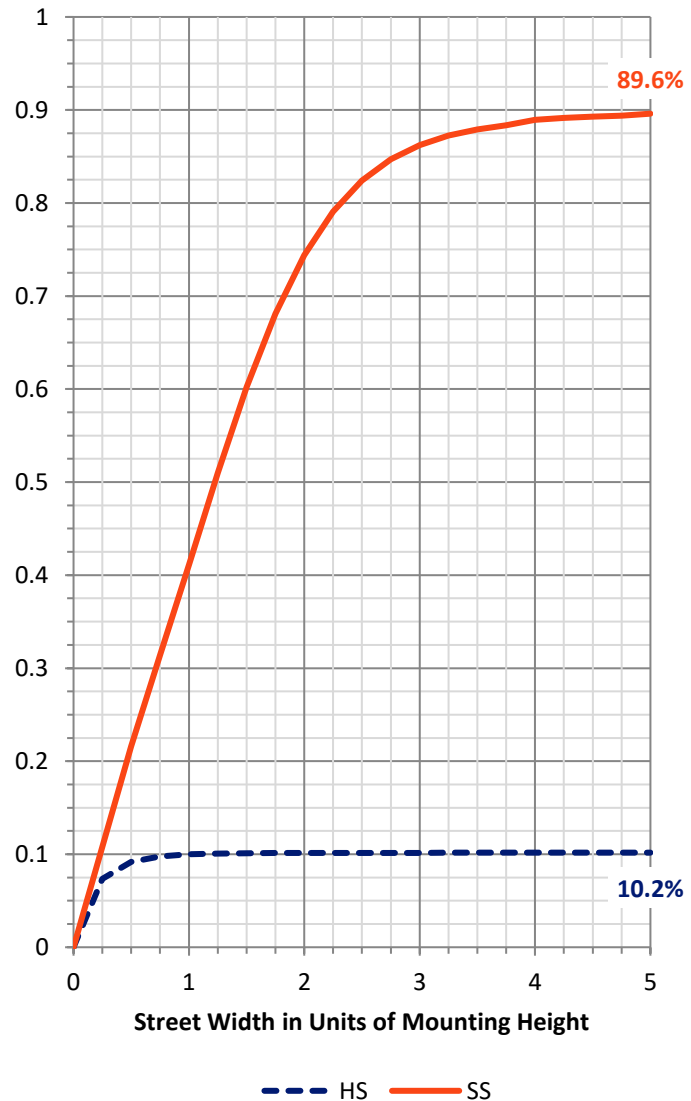
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	183.3	0.0	183.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	1602.7	0.0	1602.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	1786.0	0.0	1786.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.8	1.0
10°-20°	54.0	3.0
20°-30°	85.0	4.8
30°-40°	121.9	6.8
40°-50°	210.6	11.8
50°-60°	416.1	23.3
60°-70°	581.6	32.6
70°-80°	281.0	15.7
80°-90°	18.1	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°	1786.0	100.0
0°-180°	1786.0	100.0



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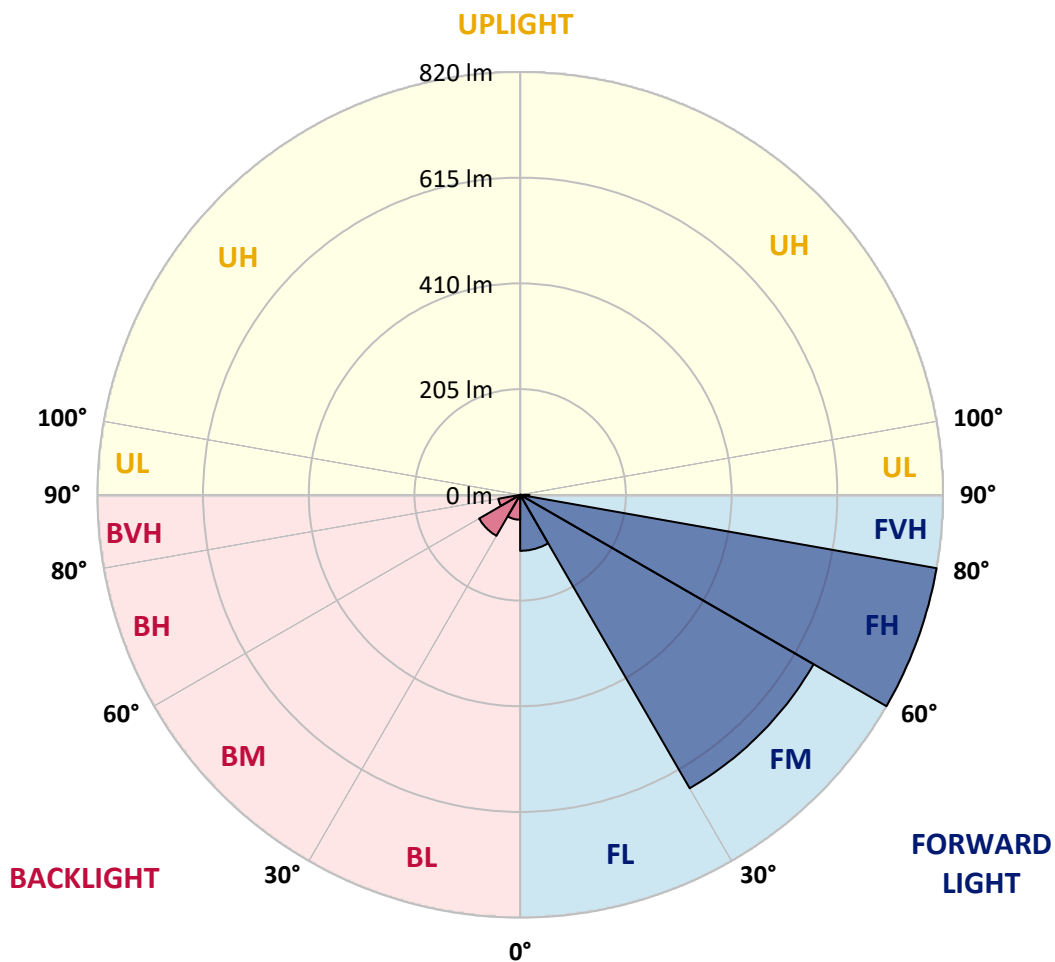
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	108.5	6.1			
FM	(30°-60°)	656.8	36.8			
FH	(60°-80°)	819.5	45.9			G1/1800
FVH	(80°-90°)	17.9	1.0			G1/100
BL	(0°-30°)	48.3	2.7	B0/110		
BM	(30°-60°)	91.8	5.1	B0/220		
BH	(60°-80°)	43.0	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°	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0
2.5°	198.8	198.5	197.4	196.9	194.0	192.3	191.7	189.6	186.6	183.6	180.2
5°	221.4	221.3	219.1	217.1	211.7	206.7	205.7	200.9	194.1	187.7	181.4
7.5°	244.5	243.4	241.3	237.2	229.4	221.4	220.7	213.8	204.2	194.9	185.8
10°	264.1	263.4	260.6	254.5	245.4	236.2	235.3	226.8	216.0	204.7	193.0
12.5°	279.4	278.9	275.1	267.5	257.7	248.3	247.0	239.5	227.9	215.2	201.5
15°	288.6	288.4	283.8	275.7	266.1	257.9	256.8	250.2	239.4	226.2	210.7
17.5°	290.8	290.9	286.1	277.9	270.1	264.2	263.4	258.3	249.3	236.1	219.9
20°	286.0	287.0	282.7	275.6	270.7	267.6	267.0	263.9	256.3	243.9	227.3
22.5°	279.1	279.6	276.7	271.9	269.9	270.5	270.1	268.5	262.0	250.6	234.6
25°	274.9	274.9	273.2	269.1	270.5	274.1	274.2	273.8	268.7	258.8	243.4
27.5°	274.7	274.2	272.2	269.2	272.9	278.4	278.8	281.0	277.8	268.8	254.5
30°	281.4	280.9	276.6	272.7	277.3	283.3	284.1	289.1	287.5	279.6	266.8
32.5°	297.1	295.0	285.6	279.1	282.6	289.7	290.8	298.7	301.2	292.9	278.7
35°	318.5	311.9	298.3	291.3	291.7	299.1	300.1	311.7	319.1	305.1	287.9
37.5°	348.1	344.8	322.6	304.1	305.6	316.9	319.8	332.4	330.3	311.8	298.4
40°	412.9	407.8	384.2	339.7	318.9	331.3	332.2	338.9	339.1	327.0	320.1
42.5°	501.2	499.1	474.2	404.5	345.1	340.9	342.6	353.9	366.5	359.0	358.7
45°	598.9	597.8	571.4	490.4	398.1	372.5	374.6	389.7	413.9	415.6	426.2
47.5°	677.5	677.0	661.9	586.3	479.2	426.0	426.7	442.7	485.3	506.3	523.3
50°	749.2	751.6	739.7	690.0	589.8	509.8	508.2	518.9	587.3	621.7	642.8
52.5°	848.9	852.3	818.7	786.8	705.8	613.8	612.6	623.8	709.9	735.6	739.4
55°	936.9	931.0	904.5	895.3	847.2	742.3	741.9	751.8	828.4	839.4	846.4
57.5°	975.7	973.5	986.3	1007.4	995.3	894.1	893.3	885.8	934.5	935.7	957.1
60°	1000.3	1003.0	1042.3	1107.4	1137.4	1057.5	1052.6	1006.6	1035.9	1033.3	1056.1
62.5°	981.8	987.3	1058.0	1166.4	1243.8	1200.1	1193.2	1117.3	1122.4	1113.5	1134.7
65°	884.0	892.5	1008.3	1155.3	1296.5	1311.5	1304.6	1215.1	1191.2	1176.5	1164.6
67.5°	717.8	722.8	843.8	1058.4	1272.8	1378.0	1376.6	1300.7	1243.1	1165.8	1074.2
69°	593.2	598.1	714.5	956.4	1220.4	1392.2	1395.0	1328.2	1233.2	1101.2	951.8
70°	502.4	507.7	616.2	869.0	1159.7	1385.6	1390.6	1325.6	1204.9	1026.3	844.3
72.5°	263.5	268.0	379.3	598.7	945.4	1272.3	1287.3	1213.5	1021.4	745.4	499.3
75°	82.8	85.4	148.1	312.9	647.3	989.3	992.7	951.9	725.3	410.0	207.9
77.5°	31.6	30.8	49.3	115.3	327.3	622.9	644.0	594.9	380.6	145.0	48.0
80°	17.0	17.1	25.6	47.7	140.0	320.1	337.9	288.3	135.2	45.2	11.1
82.5°	7.4	7.7	14.4	25.3	64.3	118.1	126.9	105.7	51.7	30.4	4.1
85°	1.6	1.8	7.0	13.7	26.2	33.2	34.8	34.2	32.9	23.6	1.6
87.5°	0.0	0.0	3.1	4.9	6.6	7.5	6.6	8.6	18.2	15.9	0.8
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°	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0	179.0
2.5°	179.1	177.6	175.0	172.2	170.2	168.1	166.4	165.6	164.8	164.2	165.0
5°	178.8	175.9	170.8	166.0	162.5	159.6	157.3	156.3	155.4	154.7	154.7
7.5°	181.7	177.6	169.9	162.8	157.3	153.5	150.3	149.0	147.9	147.4	147.0
10°	187.3	182.0	171.7	162.5	155.4	148.9	142.0	136.7	133.3	131.7	131.1
12.5°	194.6	188.0	175.3	164.2	154.0	141.4	126.9	114.3	106.2	103.5	101.9
15°	203.2	194.9	179.9	166.5	148.8	125.9	101.2	84.7	77.2	75.7	74.0
17.5°	211.4	202.3	185.4	166.9	137.4	100.6	74.1	63.0	60.0	61.0	61.3
20°	218.6	209.6	190.8	163.2	116.7	75.4	57.4	54.6	55.7	57.6	57.9
22.5°	225.8	216.6	195.9	153.5	90.3	57.3	51.7	52.3	53.4	55.4	55.7
25°	234.7	225.2	200.6	135.7	67.7	48.7	49.1	50.1	51.2	52.9	53.1
27.5°	244.9	236.0	203.7	112.5	50.2	44.8	45.9	47.4	48.5	50.2	50.5
30°	258.5	250.2	204.7	88.4	42.1	41.3	41.8	43.6	45.2	46.7	47.0
32.5°	271.2	264.3	201.3	66.7	39.0	38.0	38.0	39.1	40.9	42.4	42.7
35°	283.0	278.4	190.6	48.8	36.7	35.0	34.2	34.2	35.3	36.5	36.8
37.5°	298.4	298.3	173.3	38.9	34.4	32.5	30.7	29.4	29.0	29.2	29.4
40°	325.0	325.2	150.6	34.9	32.5	29.9	27.2	24.8	22.5	21.8	21.7
42.5°	366.4	362.7	126.9	33.0	30.8	27.2	23.2	19.9	16.4	15.3	15.2
45°	432.3	409.9	101.8	31.2	29.1	24.2	19.2	14.7	11.9	11.1	11.1
47.5°	528.1	472.0	78.9	29.3	26.7	20.8	14.5	10.6	8.7	8.3	8.4
50°	627.3	532.7	60.5	26.9	23.9	17.2	10.7	7.7	6.6	6.6	6.7
52.5°	715.2	577.3	47.1	24.3	20.3	13.5	8.1	6.0	5.5	5.4	5.5
55°	797.5	606.0	36.1	21.3	16.2	10.0	6.2	4.9	4.6	4.4	4.4
57.5°	876.9	620.3	27.0	17.2	11.7	7.3	4.9	4.2	3.9	3.6	3.5
60°	929.8	608.7	18.6	12.6	8.1	5.3	4.1	3.6	3.2	2.9	2.8
62.5°	959.6	577.1	12.0	9.1	5.8	3.9	3.3	3.0	2.4	2.2	2.2
65°	947.5	525.0	8.4	6.5	4.2	2.9	2.4	2.4	1.8	1.4	1.3
67.5°	839.7	443.6	6.4	4.9	3.0	2.2	1.8	2.1	1.1	0.7	0.7
69°	722.4	367.6	5.4	4.0	2.5	1.8	1.6	1.9	0.8	0.5	0.4
70°	627.9	317.1	4.9	3.5	2.1	1.5	1.4	1.8	0.8	0.4	0.3
72.5°	375.7	176.9	3.8	2.5	1.3	1.2	1.2	2.1	0.8	0.4	0.3
75°	151.8	62.3	2.8	1.8	1.0	1.0	1.4	2.7	0.7	0.3	0.3
77.5°	34.4	13.6	1.6	1.1	0.7	1.0	1.7	2.1	0.4	0.2	0.0
80°	8.4	3.3	1.0	0.7	0.4	0.8	1.3	1.2	0.1	0.0	0.0
82.5°	2.8	1.2	0.4	0.3	0.1	0.3	0.6	0.3	0.0	0.0	0.0
85°	1.2	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)