

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: P348820

Luminaire Tested: **ARCH-N-PA1-10-740-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348820
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-10-740-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 270mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1578 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B0 - U0 - G0

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

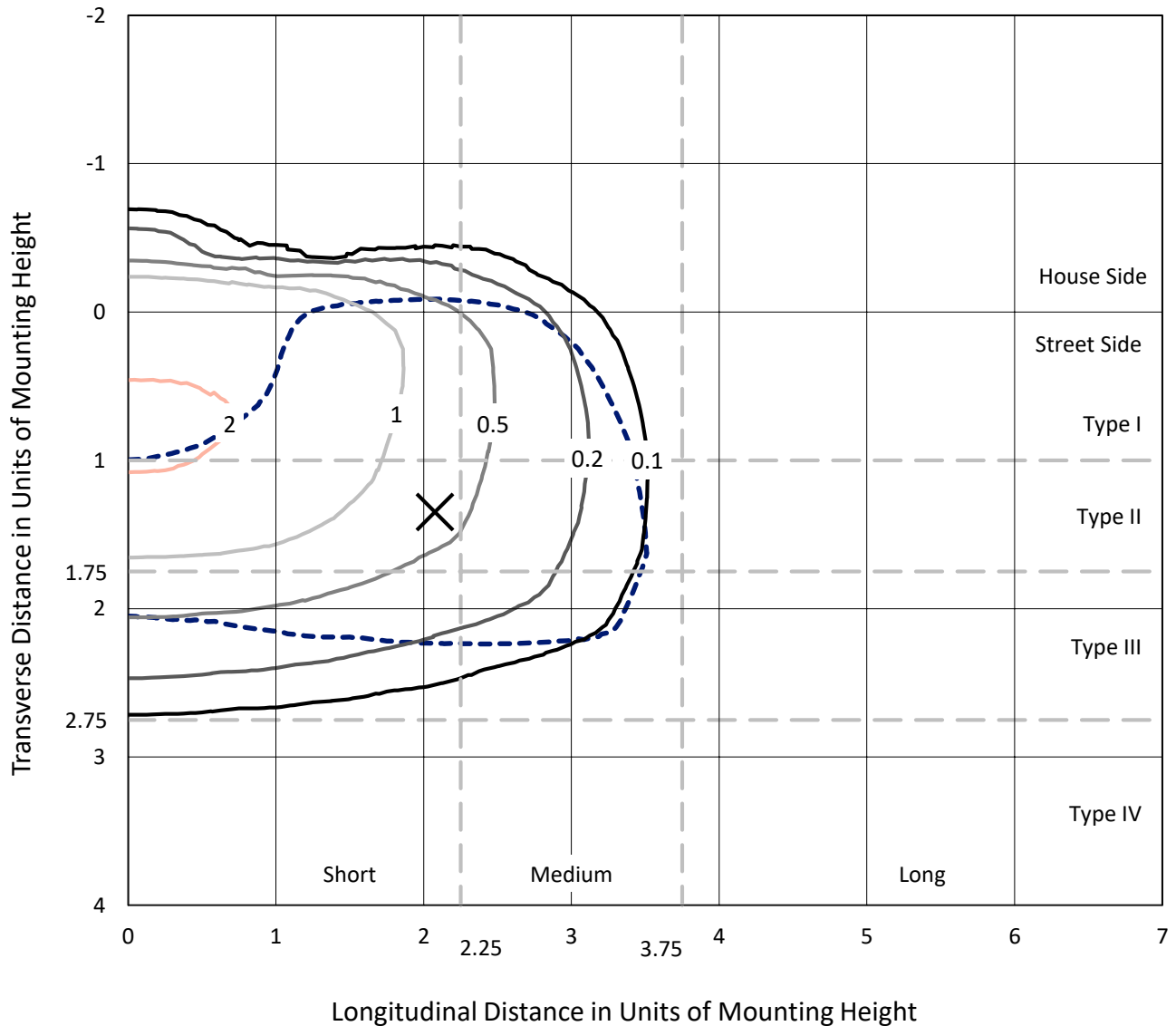


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

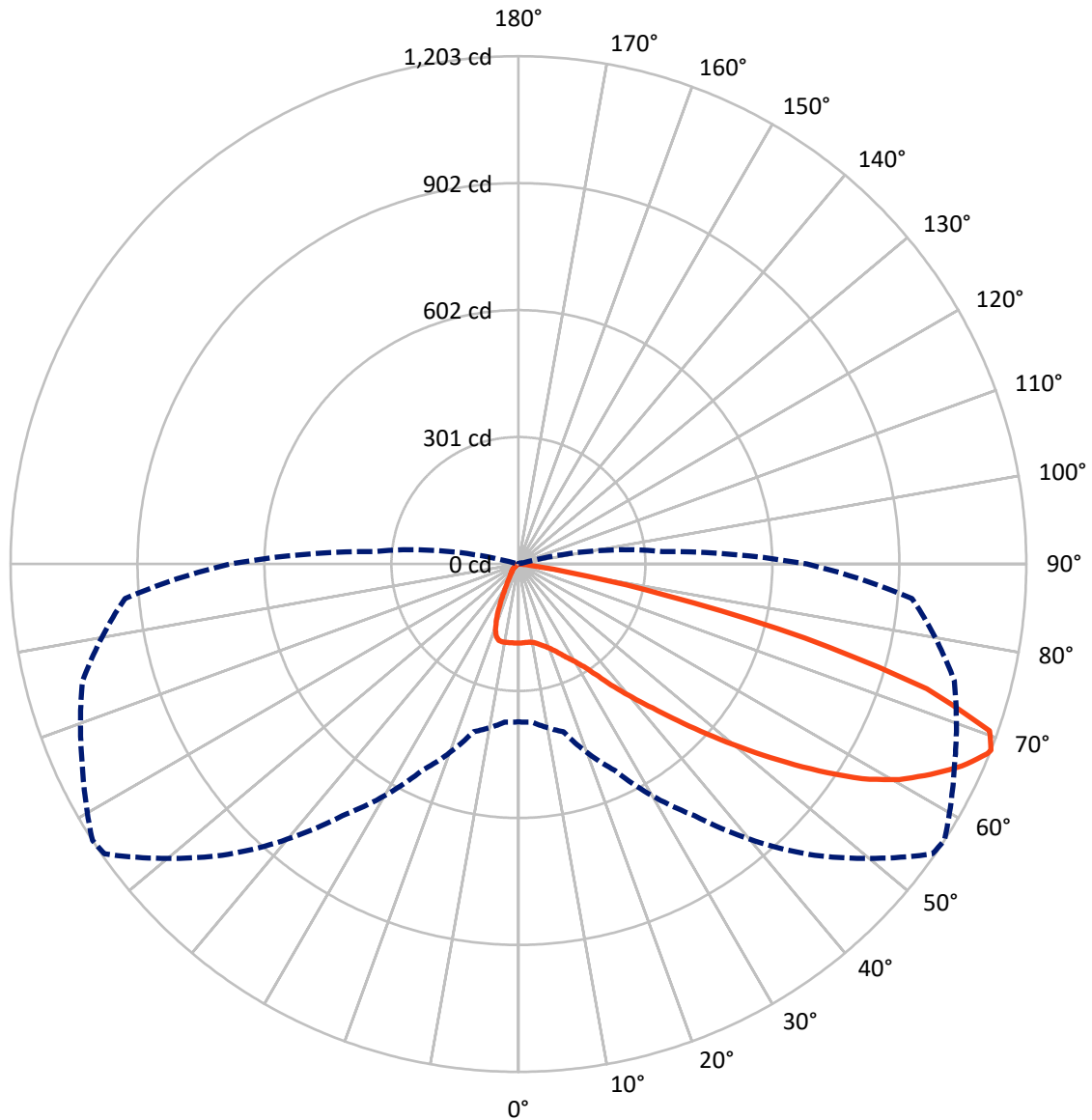


Based on 10 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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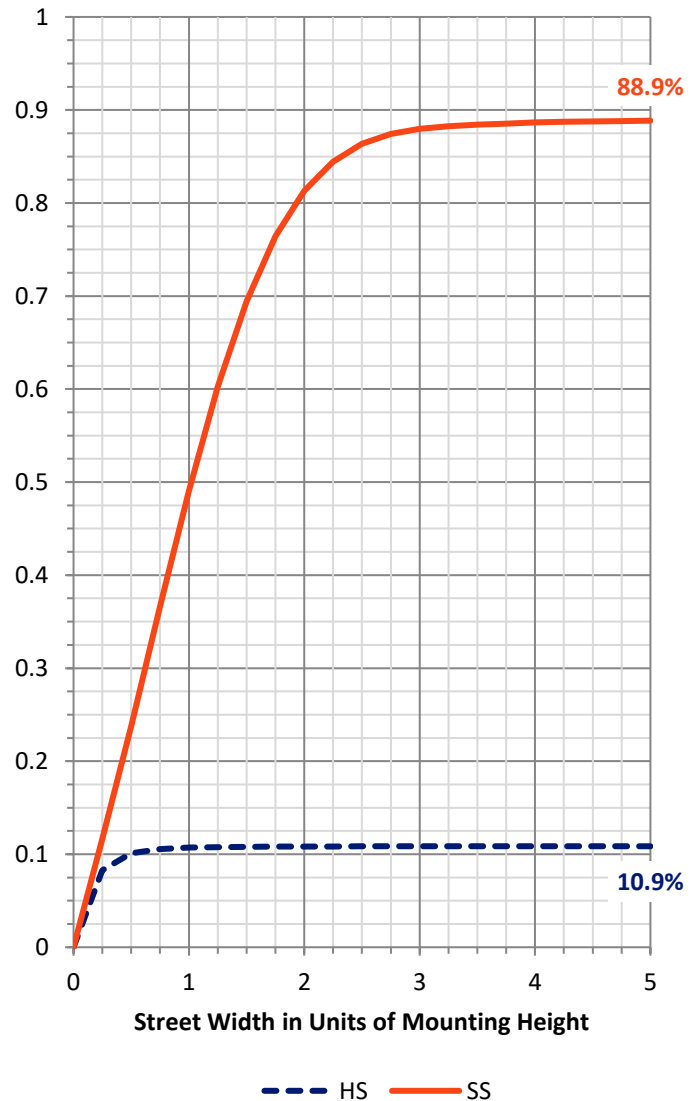
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	173.0	0.0	173.0
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	1405.0	0.0	1405.0
	% Fixture	89.0	0.0	89.0
Total	Lumens	1578.0	0.0	1578.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.5	1.1
10°-20°	48.6	3.1
20°-30°	83.9	5.3
30°-40°	144.8	9.2
40°-50°	247.7	15.7
50°-60°	396.2	25.1
60°-70°	457.8	29.0
70°-80°	174.9	11.1
80°-90°	6.6	0.4
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°	1578.0	100.0
0°-180°	1578.0	100.0



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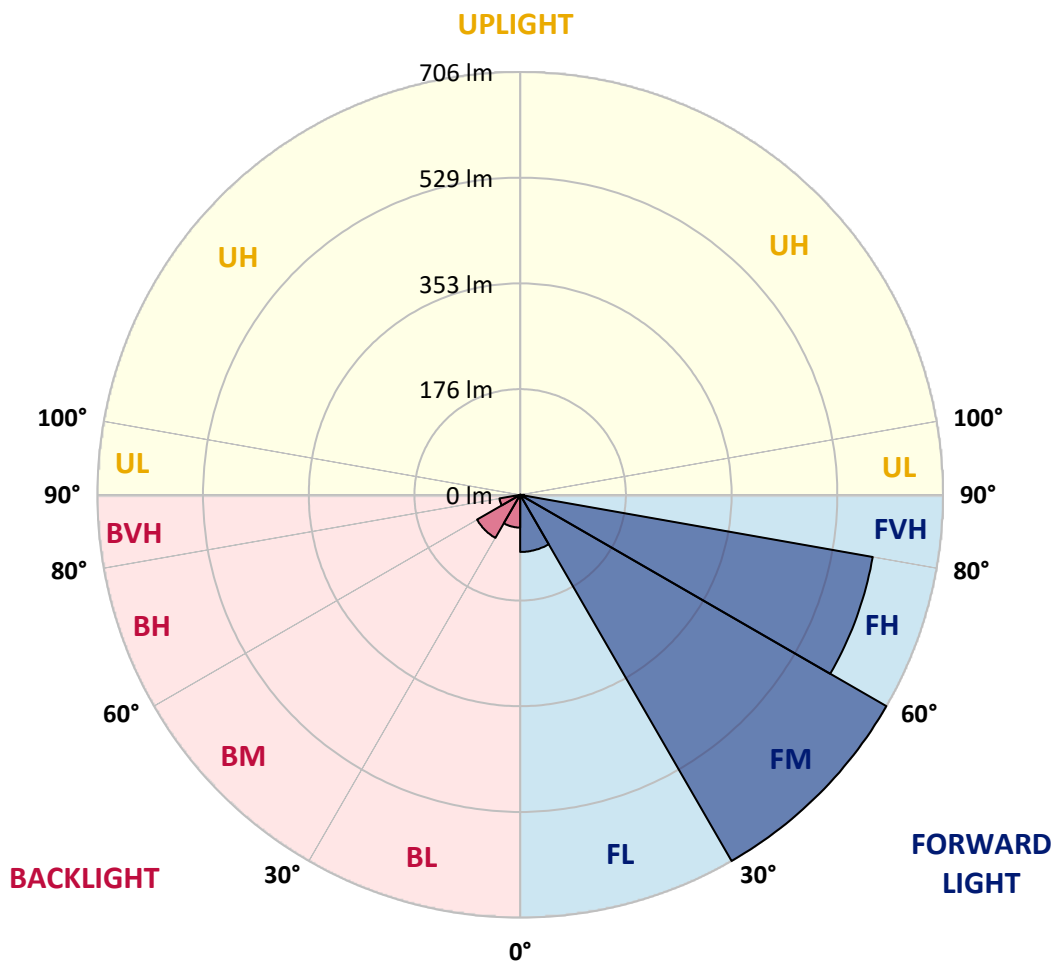
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	95.4	6.0			
FM	(30°-60°)	705.7	44.7			
FH	(60°-80°)	597.5	37.9			G0/660
FVH	(80°-90°)	6.4	0.4			G0/10
BL	(0°-30°)	54.7	3.5	B0/110		
BM	(30°-60°)	83.0	5.3	B0/220		
BH	(60°-80°)	35.2	2.2	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-G0

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	187.5	187.5	187.5	187.5	187.5	187.5	187.5	187.5	187.5	187.5	187.5
2.5°	183.1	183.9	184.5	184.9	185.3	186.3	186.6	187.1	187.3	187.3	187.8
5°	175.9	176.8	178.0	179.1	181.2	183.9	185.8	186.5	187.9	189.1	189.7
7.5°	169.2	170.2	171.7	174.2	177.7	182.1	186.1	187.1	189.7	192.3	193.6
10°	164.8	165.6	167.6	171.1	175.8	181.8	187.5	188.8	193.3	197.5	199.9
12.5°	163.3	164.1	166.1	170.0	175.9	183.0	190.8	192.7	199.2	205.4	208.8
15°	165.5	165.6	167.8	171.5	177.3	185.7	196.2	198.5	206.8	214.8	219.0
17.5°	173.9	173.2	174.3	175.9	180.5	189.4	202.0	205.3	216.4	225.9	229.8
20°	194.7	194.7	192.2	187.7	187.8	195.0	209.7	213.5	227.1	238.0	241.6
22.5°	230.5	229.8	224.7	213.8	203.7	204.8	219.2	224.1	239.9	251.6	252.8
25°	273.5	272.6	264.8	249.4	231.9	220.6	232.1	237.7	255.2	265.6	263.1
27.5°	319.0	318.3	310.5	291.4	266.5	245.9	247.3	252.7	270.8	281.0	273.2
30°	363.1	363.3	355.6	335.9	307.8	278.0	266.7	269.9	285.9	296.3	285.1
32.5°	405.0	405.3	398.7	376.7	350.4	315.4	293.6	292.8	303.5	313.8	300.9
35°	442.4	443.1	438.6	421.5	393.7	357.0	328.5	326.5	328.5	340.1	325.2
37.5°	478.4	478.9	475.4	461.0	437.8	402.8	372.5	369.7	365.4	374.3	357.2
40°	517.9	516.8	512.8	499.8	479.8	453.3	419.8	415.0	407.5	415.4	399.3
42.5°	554.6	553.3	554.0	539.2	522.4	505.2	474.9	466.7	462.3	471.4	450.9
45°	600.5	599.8	602.1	589.2	575.6	563.1	538.1	529.2	527.2	537.9	513.4
47.5°	645.8	647.4	654.4	648.9	643.4	632.4	605.1	601.0	602.2	615.1	579.2
50°	683.5	685.5	704.5	710.8	718.8	712.4	684.9	682.4	687.1	698.8	650.1
52.5°	710.9	714.8	738.5	767.3	796.4	800.8	773.4	771.1	777.5	779.3	704.9
55°	729.8	733.3	760.1	812.9	872.2	890.8	873.8	865.2	864.0	846.3	762.5
57.5°	733.2	732.8	771.3	842.4	931.6	979.7	969.0	960.4	936.0	908.2	828.5
60°	714.2	716.4	761.1	852.6	968.9	1046.9	1047.7	1036.7	998.6	968.4	892.5
62.5°	655.9	664.7	709.8	825.8	968.4	1074.0	1105.5	1097.1	1051.5	1017.8	957.5
65°	561.3	564.4	607.4	734.1	903.0	1062.7	1157.5	1154.4	1099.2	1065.7	990.8
67.5°	409.9	403.1	448.3	578.0	764.5	996.6	1194.8	1198.8	1135.9	1075.5	955.3
68°	374.0	376.1	411.3	539.5	728.2	973.2	1197.3	1203.3	1139.6	1069.1	935.9
70°	223.0	226.8	258.2	371.4	554.0	841.1	1170.7	1184.5	1117.8	1002.9	809.5
72.5°	56.9	61.6	91.3	166.2	316.4	592.6	988.3	1011.6	970.5	813.6	546.5
75°	23.4	24.6	32.6	54.8	117.9	267.0	651.4	701.4	672.8	487.1	247.0
77.5°	16.2	17.0	21.0	30.4	51.0	90.5	319.4	355.5	320.2	166.2	53.9
80°	11.6	12.3	15.0	20.2	29.3	32.3	104.1	120.4	95.6	36.5	13.4
82.5°	6.9	7.5	11.2	14.4	17.8	15.4	25.9	29.4	27.7	18.1	6.0
85°	3.4	4.0	7.5	10.3	9.6	6.5	7.9	8.8	10.9	11.0	3.2
87.5°	0.2	0.4	4.4	6.2	2.7	1.5	2.3	2.8	3.9	5.4	1.3
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°	187.5	187.5	187.5	187.5	187.5	187.5	187.5	187.5	187.5	187.5	187.5
2.5°	188.0	188.1	187.6	187.4	187.5	186.6	186.2	186.4	186.4	186.6	186.2
5°	189.9	189.9	189.0	187.8	187.1	185.4	184.3	184.0	183.8	183.6	183.3
7.5°	193.9	193.5	191.9	189.3	187.1	183.3	180.5	179.0	178.3	178.0	177.7
10°	200.4	199.6	197.0	192.1	187.0	180.3	174.2	169.7	166.1	164.6	163.7
12.5°	209.1	208.0	203.6	195.5	186.5	174.2	160.8	147.9	135.9	130.9	128.5
15°	219.2	217.5	210.6	198.3	183.4	160.4	131.2	108.6	92.0	85.7	83.0
17.5°	229.4	227.2	216.7	200.1	174.2	131.8	92.1	69.5	58.4	55.4	54.4
20°	239.7	236.5	222.0	198.8	153.5	95.1	60.7	50.8	47.6	46.7	46.4
22.5°	249.5	244.4	226.8	193.6	121.5	63.8	48.1	44.9	43.9	43.4	43.2
25°	258.0	250.9	230.9	177.4	86.0	48.2	43.3	42.2	40.9	39.9	40.0
27.5°	266.0	257.4	233.5	150.9	57.4	41.2	40.1	38.7	36.2	34.8	34.8
30°	275.6	266.1	235.3	116.1	42.2	36.4	35.5	33.4	30.0	28.1	28.1
32.5°	290.1	279.2	234.1	81.5	35.0	32.0	29.9	26.9	23.3	21.5	21.4
35°	312.3	299.5	225.6	53.4	30.9	27.8	24.5	20.8	17.6	16.1	16.0
37.5°	342.1	326.7	206.5	38.2	27.7	24.0	19.9	15.9	13.5	12.5	12.5
40°	380.8	358.2	179.2	31.0	24.7	20.2	15.4	12.3	10.7	9.9	10.0
42.5°	427.3	392.0	146.5	26.7	21.8	16.6	12.0	9.7	8.7	8.1	8.0
45°	479.0	425.4	112.1	23.8	18.9	13.4	9.4	7.7	6.9	6.6	6.6
47.5°	535.7	457.8	82.1	21.3	15.7	10.4	7.5	6.3	5.6	5.4	5.3
50°	587.3	480.4	59.2	18.6	12.9	8.2	6.1	5.2	4.8	4.5	4.5
52.5°	630.3	487.5	43.6	15.7	10.4	6.6	5.1	4.5	4.0	3.8	3.8
55°	668.1	484.6	32.4	12.9	8.4	5.4	4.3	3.8	3.4	3.2	3.2
57.5°	704.4	475.1	24.2	10.5	6.8	4.3	3.7	3.2	2.8	2.7	2.7
60°	734.0	459.5	18.0	8.5	5.4	3.5	3.1	2.6	2.3	2.1	2.1
62.5°	758.0	442.2	13.2	7.0	4.3	2.8	2.4	2.2	1.7	1.5	1.5
65°	758.2	413.4	9.9	5.8	3.4	2.2	1.8	1.7	1.1	0.9	0.8
67.5°	703.3	356.4	7.6	5.0	2.6	1.6	1.3	1.4	0.6	0.4	0.3
68°	683.4	342.0	7.2	4.9	2.5	1.6	1.3	1.4	0.5	0.3	0.2
70°	576.2	272.0	5.7	4.8	2.2	1.2	1.0	1.4	0.4	0.2	0.1
72.5°	368.5	157.9	4.3	3.8	1.6	0.9	0.7	1.3	0.4	0.1	0.1
75°	156.8	48.9	2.9	2.7	1.0	0.7	0.4	0.8	0.3	0.1	0.0
77.5°	33.1	11.0	1.7	1.6	0.7	0.4	0.3	0.2	0.1	0.0	0.0
80°	8.5	3.2	0.9	0.8	0.4	0.2	0.1	0.0	0.0	0.0	0.0
82.5°	2.7	1.3	0.5	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.3	0.7	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	0.2	0.1	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)