

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: P348848

Luminaire Tested: **ARCH-N-PA1-10-830-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348848
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-PA1-10-830-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 270mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1254 lumens
Efficiency: N/A
Efficacy: 89.6 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

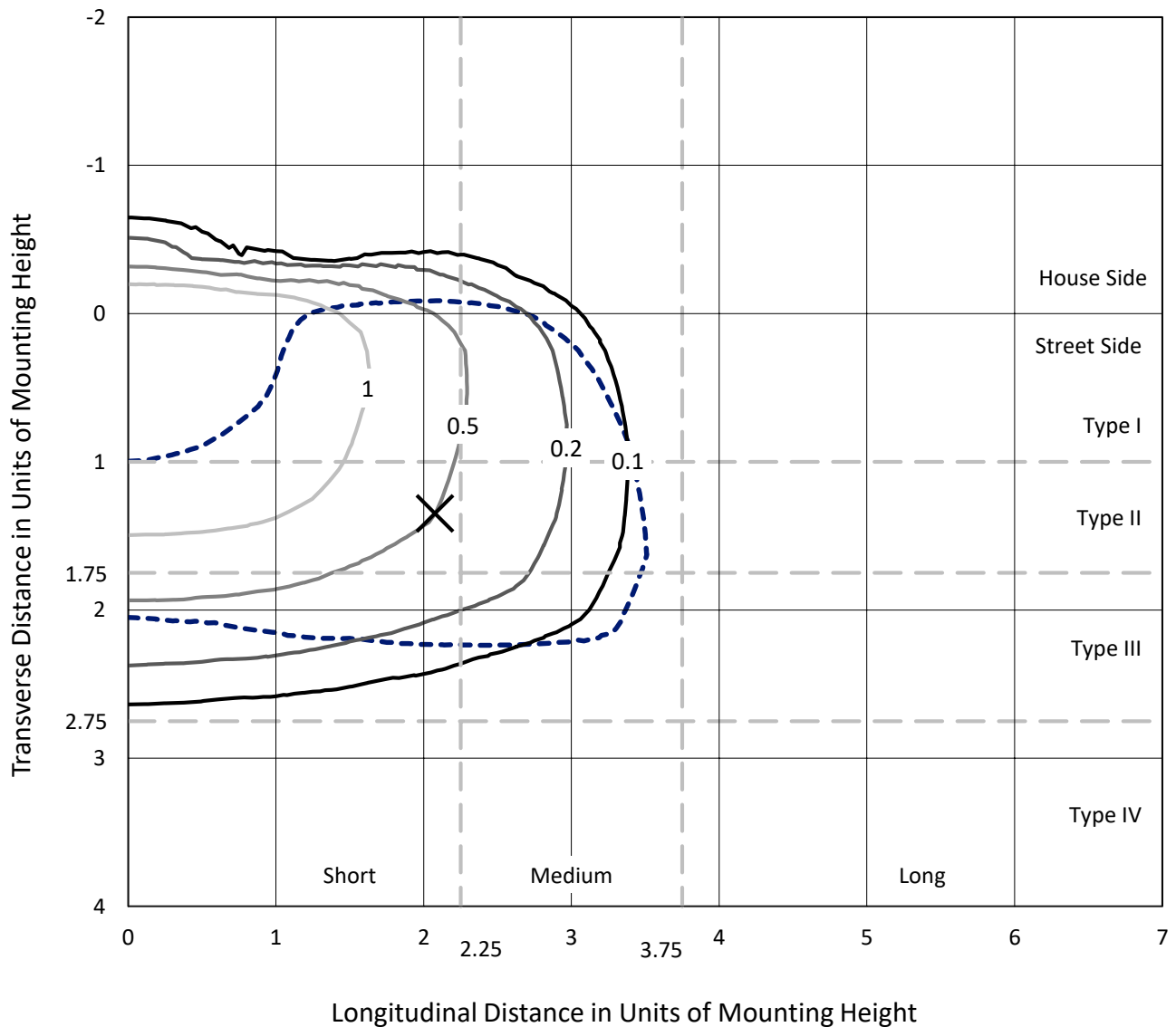


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

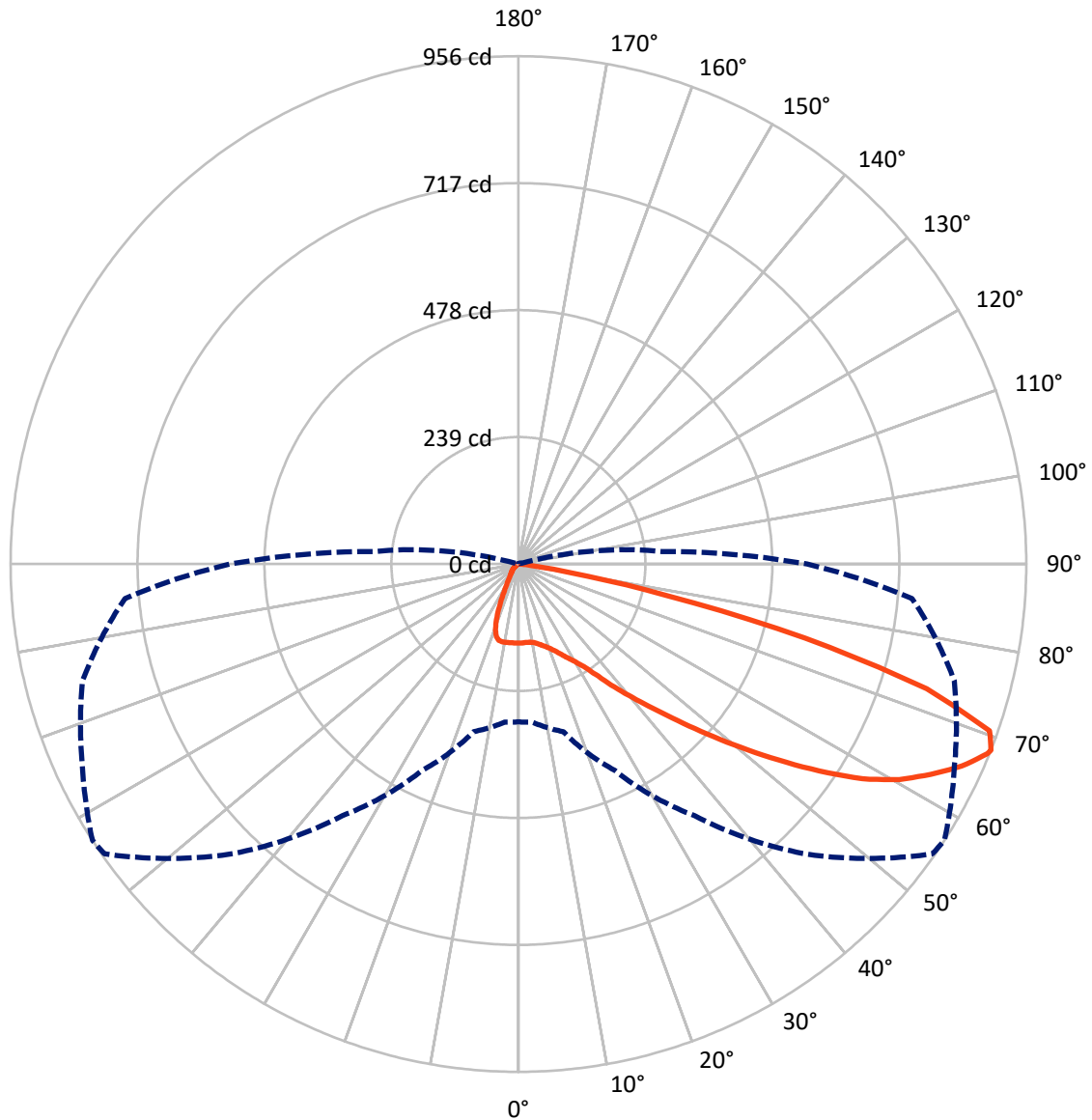


Based on 10 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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



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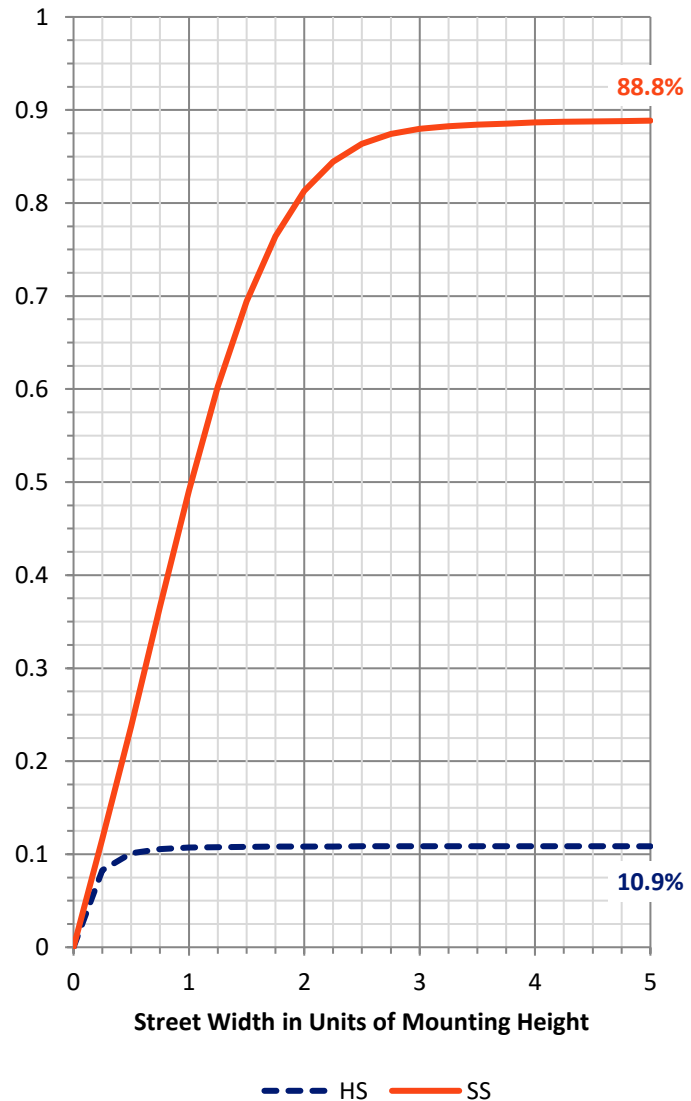
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	137.5	0.0	137.5
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	1116.5	0.0	1116.5
	% Fixture	89.0	0.0	89.0
Total	Lumens	1254.0	0.0	1254.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.9	1.1
10°-20°	38.6	3.1
20°-30°	66.7	5.3
30°-40°	115.1	9.2
40°-50°	196.8	15.7
50°-60°	314.9	25.1
60°-70°	363.8	29.0
70°-80°	139.0	11.1
80°-90°	5.2	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°	1254.0	100.0
0°-180°	1254.0	100.0

Coefficient of Utilization



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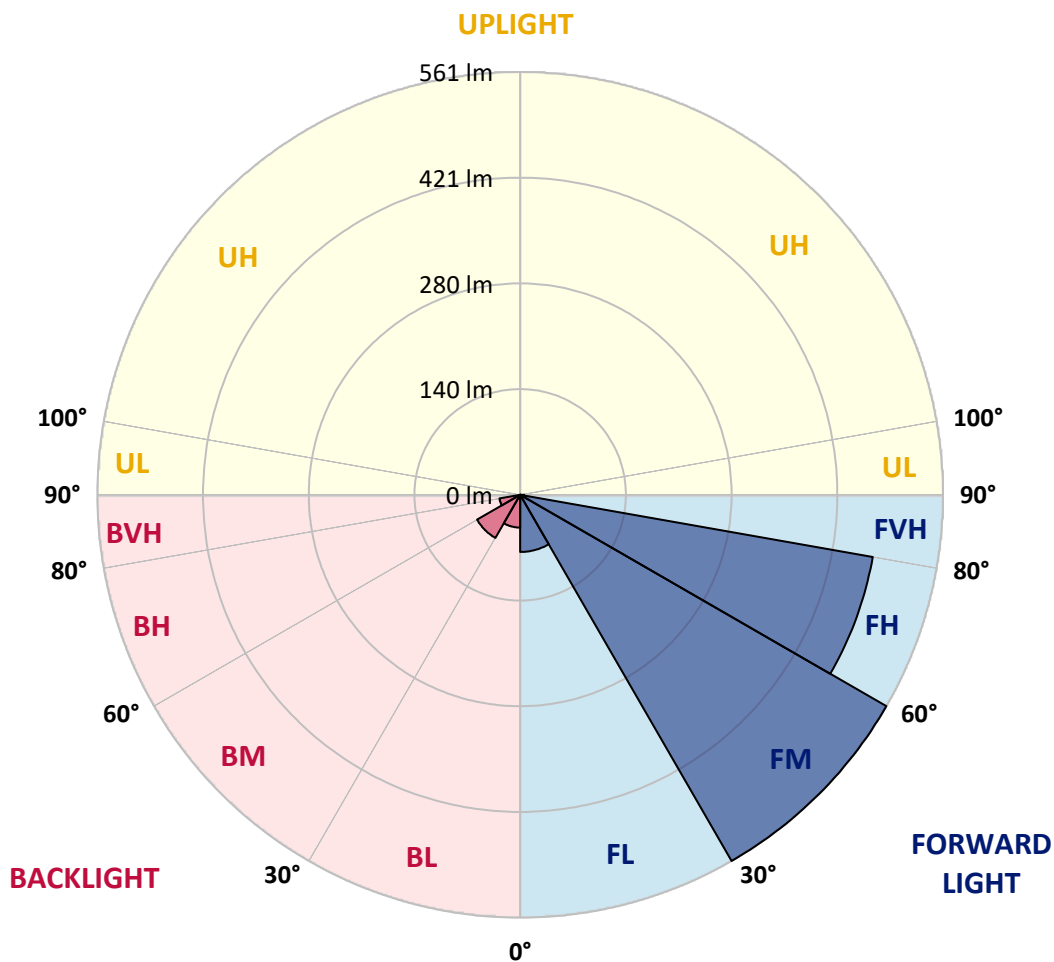
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	75.8	6.0			
FM	(30°-60°)	560.8	44.7			
FH	(60°-80°)	474.8	37.9			G0/660
FVH	(80°-90°)	5.1	0.4			G0/10
BL	(0°-30°)	43.5	3.5	B0/110		
BM	(30°-60°)	65.9	5.3	B0/220		
BH	(60°-80°)	28.0	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°	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0
2.5°	145.5	146.2	146.6	146.9	147.3	148.1	148.3	148.7	148.8	148.8	149.2
5°	139.8	140.5	141.5	142.3	144.0	146.1	147.6	148.2	149.3	150.3	150.8
7.5°	134.4	135.3	136.4	138.4	141.2	144.7	147.9	148.7	150.8	152.8	153.8
10°	131.0	131.6	133.2	136.0	139.7	144.5	149.0	150.0	153.6	157.0	158.9
12.5°	129.8	130.4	132.0	135.1	139.8	145.4	151.6	153.1	158.3	163.2	165.9
15°	131.5	131.6	133.4	136.3	140.9	147.6	155.9	157.7	164.3	170.7	174.0
17.5°	138.2	137.6	138.5	139.8	143.4	150.5	160.5	163.2	172.0	179.5	182.6
20°	154.8	154.8	152.7	149.2	149.2	155.0	166.7	169.7	180.4	189.2	192.0
22.5°	183.2	182.6	178.6	169.9	161.9	162.8	174.2	178.1	190.6	199.9	200.9
25°	217.3	216.7	210.4	198.2	184.3	175.3	184.4	188.9	202.8	211.0	209.1
27.5°	253.5	253.0	246.8	231.5	211.8	195.4	196.6	200.8	215.2	223.3	217.1
30°	288.5	288.7	282.6	266.9	244.6	220.9	212.0	214.5	227.2	235.5	226.6
32.5°	321.9	322.1	316.8	299.3	278.4	250.6	233.3	232.7	241.2	249.3	239.1
35°	351.6	352.2	348.5	335.0	312.8	283.7	261.0	259.5	261.1	270.3	258.4
37.5°	380.2	380.6	377.8	366.4	347.9	320.1	296.0	293.8	290.4	297.4	283.8
40°	411.6	410.7	407.5	397.2	381.3	360.2	333.6	329.8	323.8	330.1	317.3
42.5°	440.7	439.7	440.3	428.5	415.1	401.5	377.4	370.9	367.4	374.6	358.3
45°	477.2	476.7	478.5	468.3	457.4	447.5	427.6	420.5	419.0	427.5	407.9
47.5°	513.2	514.5	520.0	515.7	511.3	502.6	480.8	477.6	478.6	488.8	460.3
50°	543.2	544.7	559.9	564.8	571.2	566.1	544.3	542.3	546.0	555.3	516.6
52.5°	564.9	568.0	586.8	609.8	632.9	636.4	614.6	612.8	617.9	619.3	560.2
55°	580.0	582.8	604.0	646.0	693.1	707.9	694.4	687.5	686.6	672.5	605.9
57.5°	582.6	582.3	612.9	669.4	740.3	778.5	770.0	763.2	743.8	721.7	658.4
60°	567.6	569.3	604.8	677.6	769.9	832.0	832.6	823.8	793.5	769.6	709.3
62.5°	521.2	528.2	564.1	656.3	769.6	853.5	878.5	871.8	835.6	808.8	760.9
65°	446.0	448.5	482.7	583.3	717.6	844.5	919.8	917.4	873.5	846.9	787.4
67.5°	325.7	320.3	356.2	459.4	607.5	791.9	949.5	952.6	902.7	854.7	759.2
68°	297.2	298.8	326.8	428.7	578.7	773.4	951.4	956.2	905.6	849.6	743.7
70°	177.2	180.3	205.2	295.2	440.3	668.4	930.3	941.3	888.3	797.0	643.3
72.5°	45.2	48.9	72.5	132.1	251.5	470.9	785.4	803.9	771.2	646.6	434.3
75°	18.6	19.6	25.9	43.5	93.7	212.2	517.6	557.4	534.7	387.1	196.3
77.5°	12.9	13.5	16.7	24.1	40.6	71.9	253.8	282.5	254.5	132.1	42.8
80°	9.3	9.8	11.9	16.1	23.3	25.7	82.7	95.6	76.0	29.0	10.6
82.5°	5.5	5.9	8.9	11.4	14.2	12.3	20.6	23.4	22.0	14.4	4.7
85°	2.7	3.2	6.0	8.2	7.6	5.2	6.3	7.0	8.7	8.8	2.5
87.5°	0.2	0.4	3.5	4.9	2.1	1.2	1.8	2.3	3.1	4.3	1.1
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°	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0
2.5°	149.4	149.5	149.1	148.9	149.0	148.3	148.0	148.1	148.1	148.3	148.0
5°	150.9	150.9	150.2	149.2	148.7	147.3	146.5	146.2	146.0	145.9	145.7
7.5°	154.1	153.8	152.5	150.4	148.7	145.7	143.4	142.2	141.7	141.4	141.2
10°	159.3	158.6	156.5	152.7	148.6	143.3	138.4	134.9	132.0	130.8	130.1
12.5°	166.2	165.3	161.8	155.4	148.2	138.5	127.8	117.5	108.0	104.1	102.1
15°	174.2	172.8	167.3	157.6	145.7	127.5	104.3	86.3	73.1	68.1	66.0
17.5°	182.3	180.6	172.2	159.0	138.5	104.8	73.2	55.3	46.4	44.1	43.2
20°	190.5	187.9	176.4	158.0	122.0	75.5	48.3	40.4	37.8	37.1	36.9
22.5°	198.3	194.3	180.2	153.8	96.6	50.7	38.2	35.7	34.9	34.5	34.3
25°	205.0	199.4	183.5	141.0	68.4	38.3	34.4	33.6	32.5	31.7	31.8
27.5°	211.4	204.6	185.5	119.9	45.6	32.7	31.8	30.7	28.8	27.6	27.6
30°	219.0	211.4	187.0	92.3	33.6	28.9	28.2	26.5	23.8	22.4	22.4
32.5°	230.5	221.9	186.1	64.8	27.8	25.4	23.8	21.4	18.5	17.1	17.0
35°	248.1	238.0	179.3	42.5	24.5	22.1	19.4	16.5	14.0	12.8	12.7
37.5°	271.9	259.6	164.1	30.4	22.0	19.0	15.8	12.6	10.7	10.0	9.9
40°	302.6	284.7	142.4	24.6	19.6	16.1	12.2	9.8	8.5	7.9	7.9
42.5°	339.6	311.5	116.4	21.2	17.3	13.2	9.5	7.7	6.9	6.5	6.3
45°	380.6	338.0	89.1	18.9	15.0	10.7	7.5	6.1	5.5	5.2	5.2
47.5°	425.7	363.8	65.2	16.9	12.5	8.2	6.0	5.0	4.4	4.3	4.2
50°	466.7	381.7	47.0	14.8	10.3	6.5	4.9	4.2	3.8	3.6	3.6
52.5°	500.9	387.4	34.6	12.5	8.3	5.2	4.0	3.6	3.2	3.0	3.0
55°	530.9	385.1	25.7	10.3	6.7	4.3	3.4	3.0	2.7	2.5	2.5
57.5°	559.7	377.6	19.2	8.4	5.4	3.4	2.9	2.5	2.3	2.1	2.1
60°	583.3	365.1	14.3	6.8	4.3	2.8	2.4	2.1	1.8	1.7	1.7
62.5°	602.4	351.4	10.5	5.6	3.4	2.2	1.9	1.7	1.4	1.2	1.2
65°	602.5	328.6	7.9	4.6	2.7	1.7	1.4	1.4	0.9	0.7	0.7
67.5°	558.9	283.3	6.0	4.0	2.1	1.3	1.1	1.1	0.5	0.3	0.2
68°	543.1	271.7	5.7	3.9	2.0	1.2	1.0	1.1	0.4	0.2	0.2
70°	457.9	216.2	4.6	3.8	1.7	0.9	0.8	1.1	0.4	0.2	0.1
72.5°	292.9	125.5	3.4	3.0	1.3	0.7	0.5	1.0	0.4	0.1	0.1
75°	124.6	38.9	2.3	2.1	0.8	0.5	0.4	0.7	0.2	0.1	0.0
77.5°	26.3	8.8	1.4	1.3	0.5	0.4	0.2	0.2	0.1	0.0	0.0
80°	6.8	2.5	0.7	0.7	0.3	0.2	0.1	0.0	0.0	0.0	0.0
82.5°	2.1	1.0	0.4	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.1	0.6	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.6	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)