

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: P348974

Luminaire Tested: **ARCH-N-PA1-10-727-U-T2U-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P348974  
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-PA1-10-727-U-T2U-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 270mA LIGHT ENGINE WITH 16 LEDS AND  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1345 lumens  
Efficiency: N/A  
Efficacy: 96.1 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

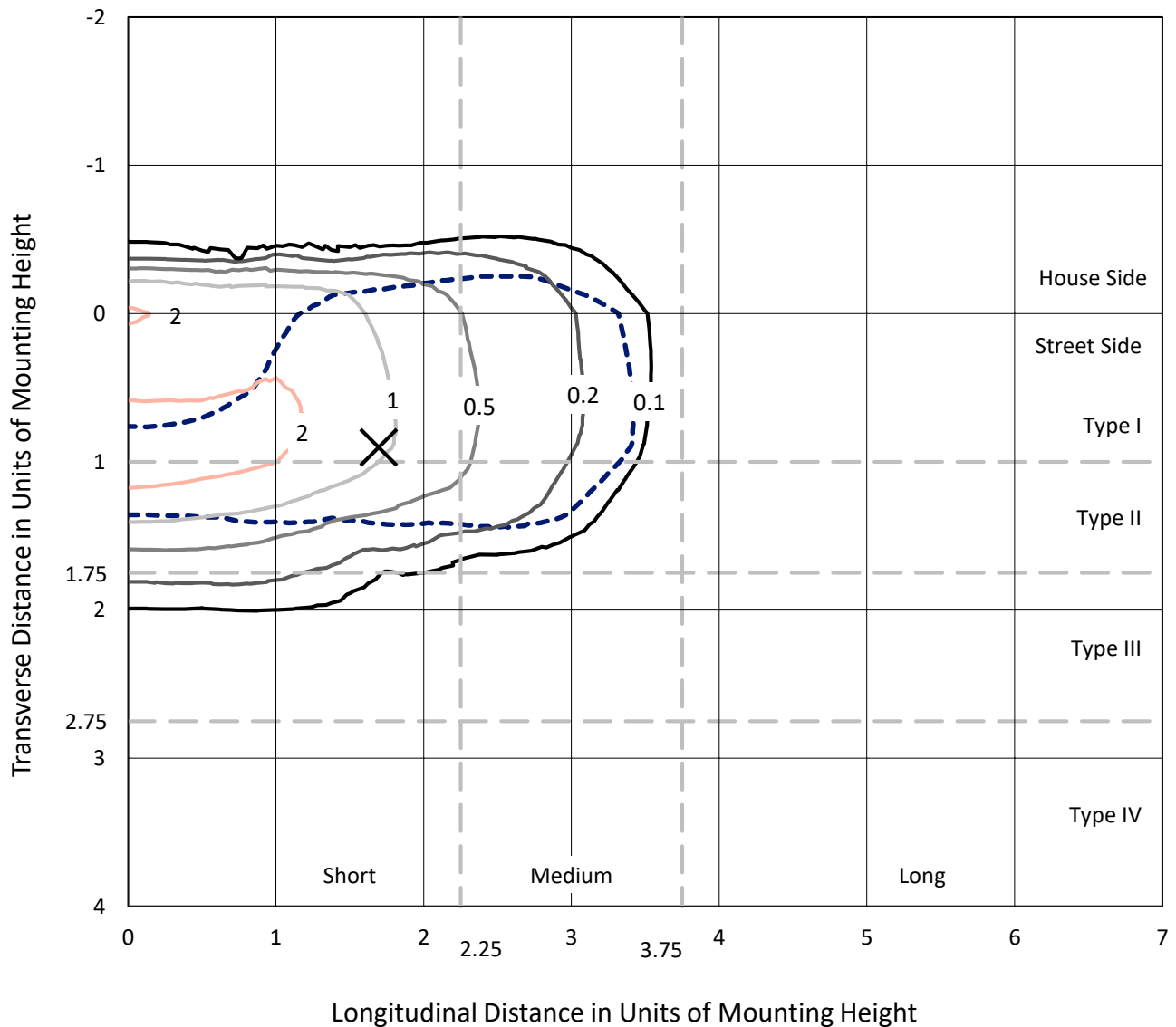
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

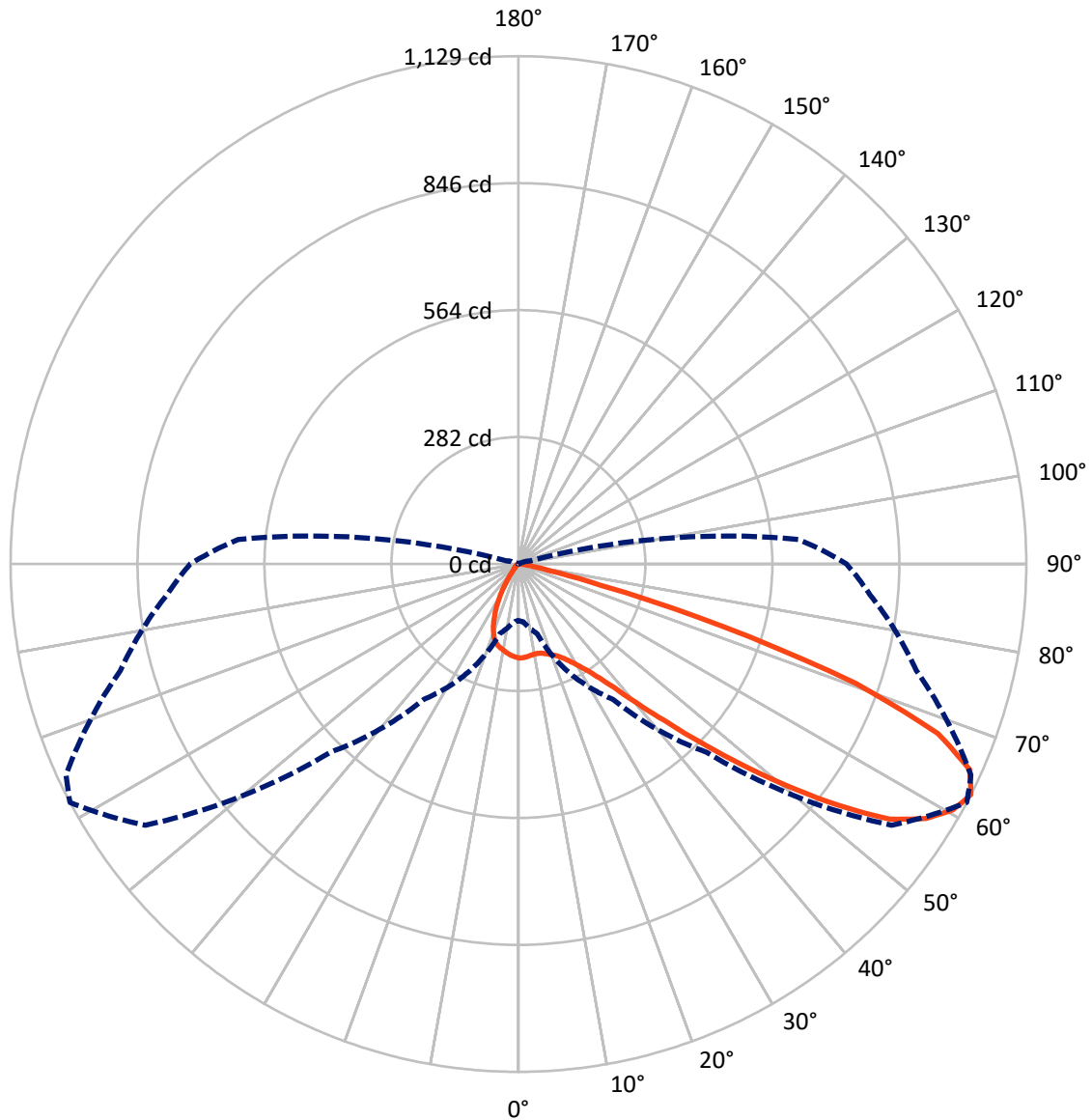


Based on 10 foot mounting height. Maximum calculated value = 3 fc  
 Type II - Short - Full Cutoff

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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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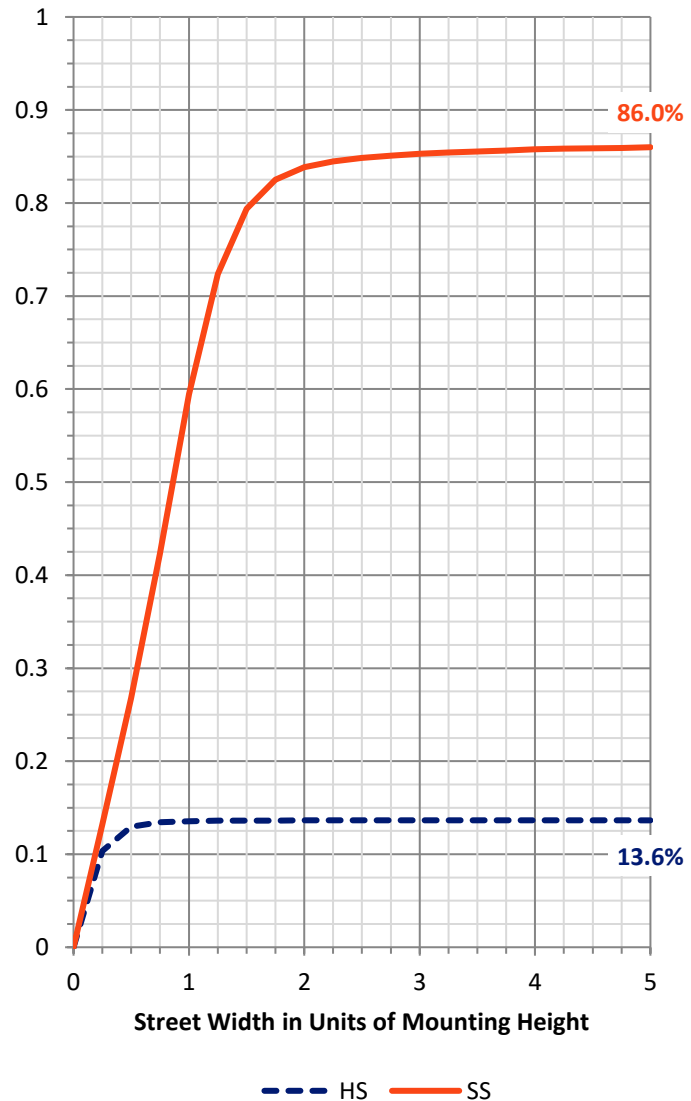
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	185.7	0.0	185.7
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	1159.3	0.0	1159.3
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	1345.0	0.0	1345.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.0	1.4
10°-20°	47.8	3.6
20°-30°	71.3	5.3
30°-40°	135.9	10.1
40°-50°	283.4	21.1
50°-60°	376.5	28.0
60°-70°	293.5	21.8
70°-80°	110.9	8.2
80°-90°	6.7	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°	1345.0	100.0
0°-180°	1345.0	100.0



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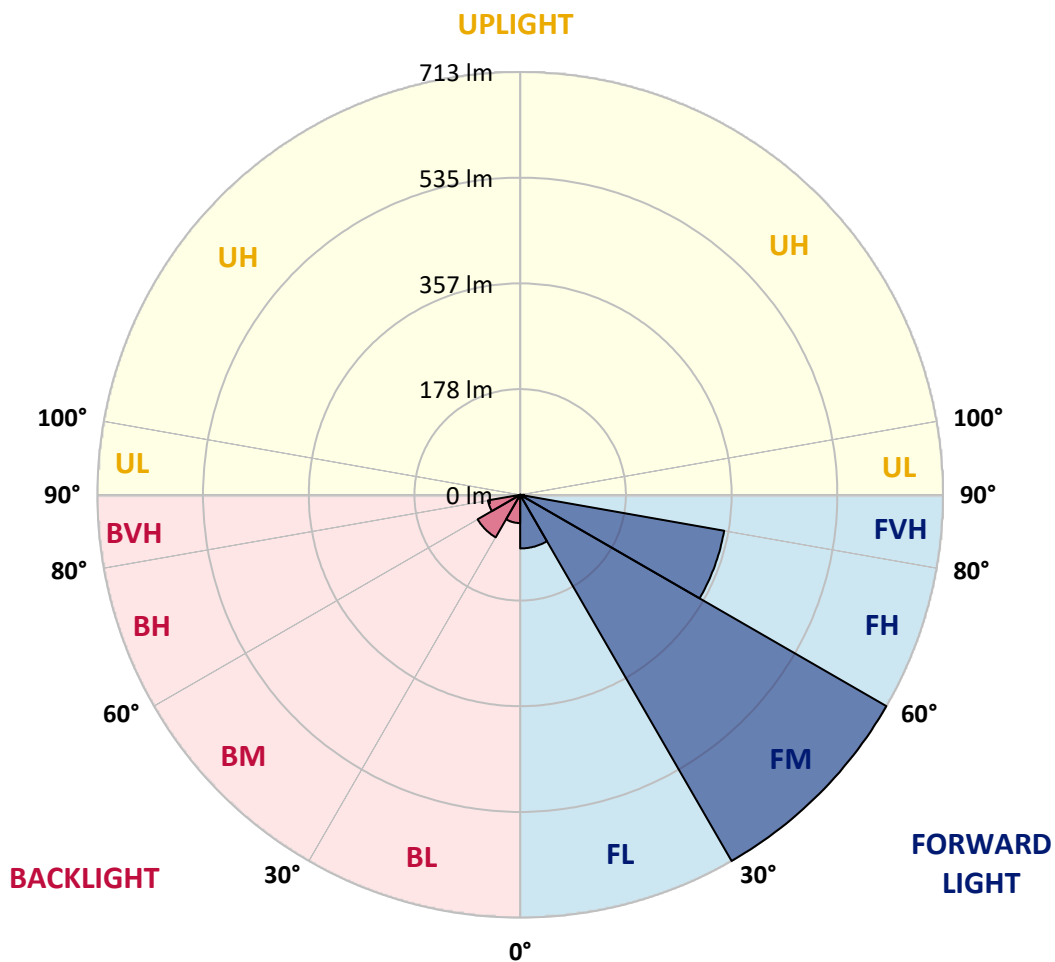
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	90.5	6.7			
FM (30°-60°)	713.1	53.0			
FH (60°-80°)	349.3	26.0			G0/660
FVH (80°-90°)	6.3	0.5			G0/10
BL (0°-30°)	47.6	3.5	B0/110		
BM (30°-60°)	82.7	6.1	B0/220		
BH (60°-80°)	55.1	4.1	B0/110		G0/110
BVH (80°-90°)	0.3	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°	209.0	209.0	209.0	209.0	209.0	209.0	209.0	209.0	209.0	209.0	209.0
2.5°	208.3	207.9	208.8	208.8	208.6	209.0	208.6	208.4	208.3	207.9	207.6
5°	202.8	202.8	204.0	204.6	205.1	206.1	206.5	206.8	206.7	207.0	207.2
7.5°	196.5	196.8	198.2	198.9	199.8	201.9	203.2	204.6	204.7	206.0	206.7
10°	191.2	191.6	193.0	193.8	195.1	197.9	200.5	203.0	203.3	205.6	206.1
12.5°	187.7	188.0	189.4	190.7	193.3	196.8	200.5	203.3	204.2	207.0	207.0
15°	186.3	186.6	188.4	190.5	194.0	198.6	203.2	206.1	207.9	210.2	209.1
17.5°	185.8	186.5	189.4	192.6	196.5	201.4	207.0	210.2	211.9	214.4	212.1
20°	187.3	188.2	192.1	196.5	200.5	205.6	211.8	215.3	217.0	218.6	214.2
22.5°	193.0	194.4	197.7	202.6	205.8	211.9	218.1	222.1	224.1	223.9	218.1
25°	206.5	208.3	209.8	212.5	213.9	221.3	227.8	231.8	233.2	232.7	226.0
27.5°	238.5	240.8	235.1	229.3	226.2	233.0	240.2	244.5	245.7	244.6	234.4
30°	292.4	292.6	279.8	261.5	248.0	247.3	256.1	261.7	261.7	259.6	246.4
32.5°	371.0	365.4	349.2	316.9	286.3	270.3	277.0	282.4	282.4	279.8	264.7
35°	469.8	465.5	438.8	400.0	345.5	307.2	305.8	311.1	311.2	310.5	293.3
37.5°	570.3	559.9	537.6	491.0	427.1	364.0	347.1	350.8	353.4	353.1	331.6
40°	663.8	653.4	634.6	589.8	527.2	447.6	407.2	407.2	407.4	405.6	379.8
42.5°	737.2	732.5	718.4	687.3	639.0	579.2	488.2	474.9	472.0	470.3	436.4
45°	784.9	779.9	772.4	765.9	750.2	728.8	597.0	562.0	557.5	540.2	498.9
47.5°	787.5	779.9	785.0	809.6	845.0	856.0	731.3	663.6	651.5	620.4	561.7
50°	728.8	729.5	749.4	809.1	904.5	967.6	873.6	775.4	756.2	694.0	617.0
52.5°	620.9	627.9	658.7	750.6	907.4	1039.0	997.5	890.7	852.7	760.1	656.0
55°	486.1	492.4	542.7	642.2	839.0	1049.2	1087.7	1001.0	950.8	806.1	691.0
57.5°	343.8	355.7	418.1	509.5	708.6	971.3	1112.3	1067.1	1018.4	850.9	723.9
60°	209.0	214.9	279.8	386.1	534.1	808.4	1083.4	1109.3	1069.9	889.8	754.6
62.5°	125.7	129.2	160.3	265.9	367.5	591.9	1012.1	1128.6	1109.3	915.6	784.2
65°	74.3	76.6	91.2	160.6	244.8	363.1	858.0	1102.1	1117.7	937.9	801.4
67.5°	53.6	54.3	59.6	86.5	164.3	194.5	596.6	1005.4	1063.9	945.3	791.2
70°	46.2	47.1	52.2	60.8	116.3	114.8	310.5	795.8	901.9	906.8	748.1
72.5°	35.0	36.6	45.0	57.1	83.5	81.5	117.0	474.5	612.3	744.4	645.0
75°	23.7	24.6	33.4	48.5	65.2	60.8	61.3	190.5	299.5	466.8	443.2
77.5°	14.9	15.6	20.4	34.8	55.9	42.9	43.4	67.7	108.1	197.9	190.0
80°	10.2	10.5	12.3	22.5	37.8	37.3	27.9	35.3	40.2	61.0	40.9
82.5°	6.2	6.2	8.1	13.4	22.8	29.5	17.6	19.5	21.4	22.7	9.3
85°	2.1	2.3	4.9	8.3	14.1	14.8	10.0	11.6	12.1	13.2	4.4
87.5°	0.9	0.7	2.6	4.6	6.0	6.9	5.8	5.3	5.8	7.7	1.9
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°	209.0	209.0	209.0	209.0	209.0	209.0	209.0	209.0	209.0	209.0	209.0
2.5°	207.7	207.0	207.0	206.8	205.8	205.3	204.7	203.3	204.2	203.2	202.5
5°	206.7	206.1	205.3	204.4	201.9	199.8	198.9	197.2	197.0	195.6	194.9
7.5°	206.5	205.3	203.9	200.9	197.2	193.8	190.9	187.9	186.6	185.1	184.2
10°	205.6	204.0	201.4	196.7	191.2	185.9	179.3	171.0	164.8	161.3	160.8
12.5°	205.8	204.0	200.0	193.0	185.8	174.2	156.2	137.4	122.0	115.5	114.4
15°	207.2	205.3	199.1	189.6	177.3	151.8	119.0	90.2	70.1	62.9	61.3
17.5°	209.0	205.6	197.2	184.9	161.2	117.7	74.9	47.3	36.0	32.0	31.3
20°	210.0	205.4	194.0	177.7	136.6	78.7	40.8	27.8	24.4	23.5	23.2
22.5°	212.6	206.0	191.4	166.4	105.6	47.5	25.8	21.6	19.7	18.6	18.5
25°	218.1	209.5	191.6	151.8	74.0	28.6	20.9	17.6	15.8	14.8	14.4
27.5°	226.0	215.8	194.9	133.7	45.7	21.6	17.4	14.2	12.3	11.4	11.2
30°	236.0	223.5	198.8	110.2	28.5	18.1	14.1	11.1	9.7	9.1	9.0
32.5°	251.8	236.9	202.1	82.4	19.7	14.9	11.1	8.8	7.9	7.4	7.4
35°	278.0	259.9	207.6	55.2	15.6	12.0	9.0	7.2	6.5	6.2	6.2
37.5°	314.9	292.8	210.2	34.3	12.8	9.3	7.2	6.0	5.4	5.1	5.1
40°	359.9	332.7	206.5	21.3	10.7	7.6	6.0	5.1	4.6	4.4	4.4
42.5°	411.8	378.5	194.9	15.1	9.0	6.2	5.1	4.4	4.0	3.9	3.9
45°	469.8	428.8	174.0	12.7	7.6	5.3	4.4	3.7	3.5	3.3	3.3
47.5°	527.6	479.8	146.9	10.9	6.3	4.4	3.7	3.2	3.0	2.8	2.8
50°	578.0	524.4	118.3	9.5	5.3	3.9	3.2	2.6	2.5	2.3	2.3
52.5°	606.8	550.9	91.6	7.9	4.6	3.3	2.5	2.1	1.9	1.8	1.8
55°	637.9	573.1	68.4	6.7	3.7	2.8	1.9	1.6	1.4	1.2	1.2
57.5°	666.9	593.0	50.8	5.4	3.2	2.1	1.6	1.2	1.1	0.9	0.9
60°	695.1	609.8	37.6	4.4	2.6	1.8	1.2	0.9	0.7	0.5	0.5
62.5°	729.3	625.3	27.6	3.5	2.3	1.2	0.9	0.5	0.4	0.2	0.2
65°	754.8	633.2	20.7	2.6	1.9	0.9	0.5	0.4	0.0	0.0	0.0
67.5°	754.6	617.9	15.1	1.9	1.4	0.7	0.4	0.0	0.0	0.0	0.0
70°	719.3	571.5	10.5	1.6	1.1	0.5	0.2	0.0	0.0	0.0	0.0
72.5°	616.9	452.0	6.9	1.1	0.9	0.4	0.2	0.0	0.0	0.0	0.0
75°	416.3	229.5	4.0	0.9	0.7	0.4	0.2	0.0	0.0	0.0	0.0
77.5°	178.0	90.2	2.1	0.5	0.5	0.2	0.0	0.0	0.0	0.0	0.0
80°	37.3	21.8	0.9	0.4	0.4	0.2	0.0	0.0	0.0	0.0	0.0
82.5°	6.3	3.2	0.4	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.6	0.9	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	0.4	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)