

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: P459582

Luminaire Tested: **ARCH-S-PA1-30-AMB-U-T4W-HSS**

Issue Date: 1/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459582  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-905-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA1-30-AMB-U-T4W-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) NARROW BAND AMBER, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 926 lumens  
Efficiency: N/A  
Efficacy: 28.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')  
IES Classification: Type IV - Medium - Non-Cutoff  
BUG Rating: B0 - U0 - G1

Input Watts (W): 32  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

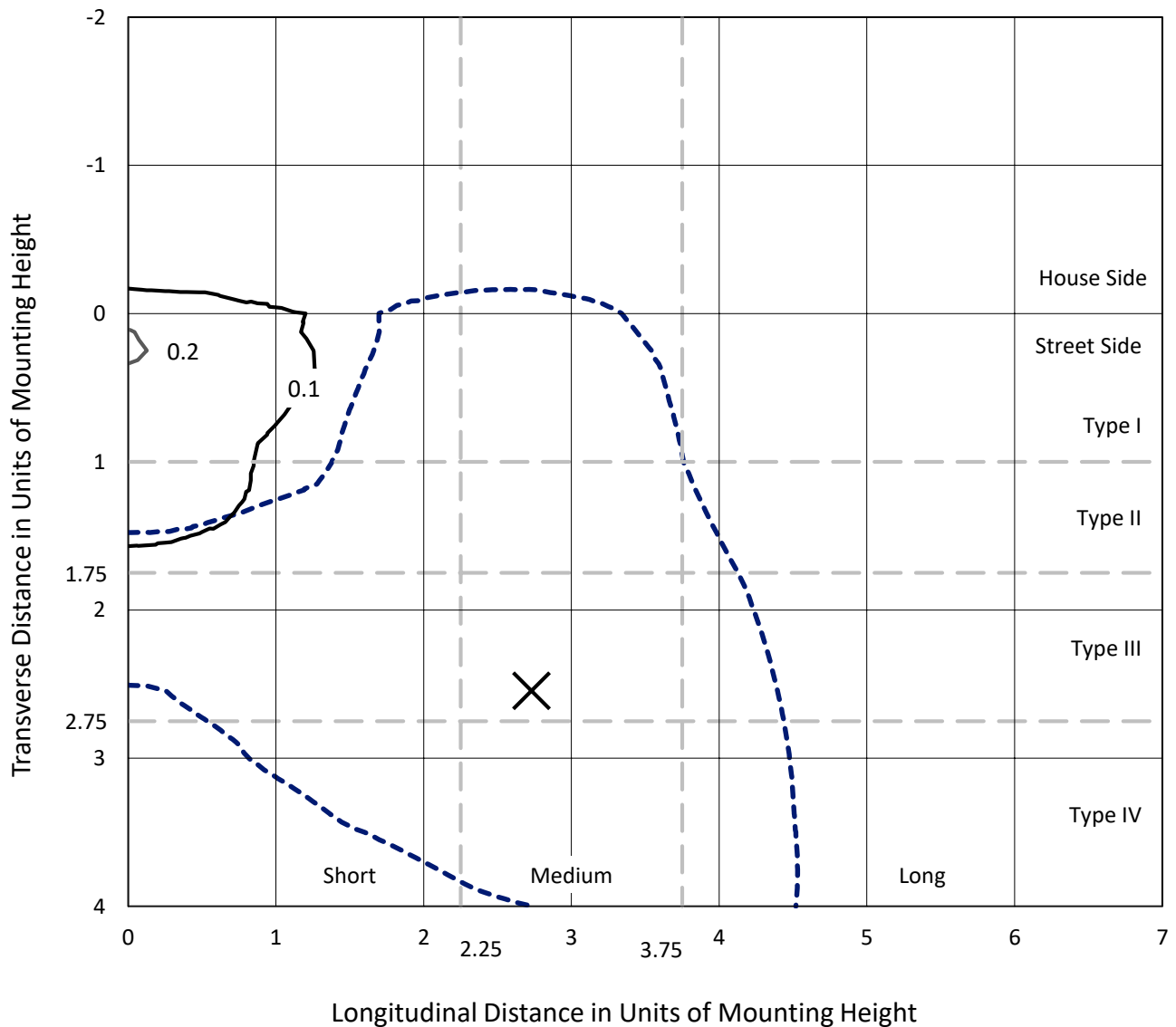


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

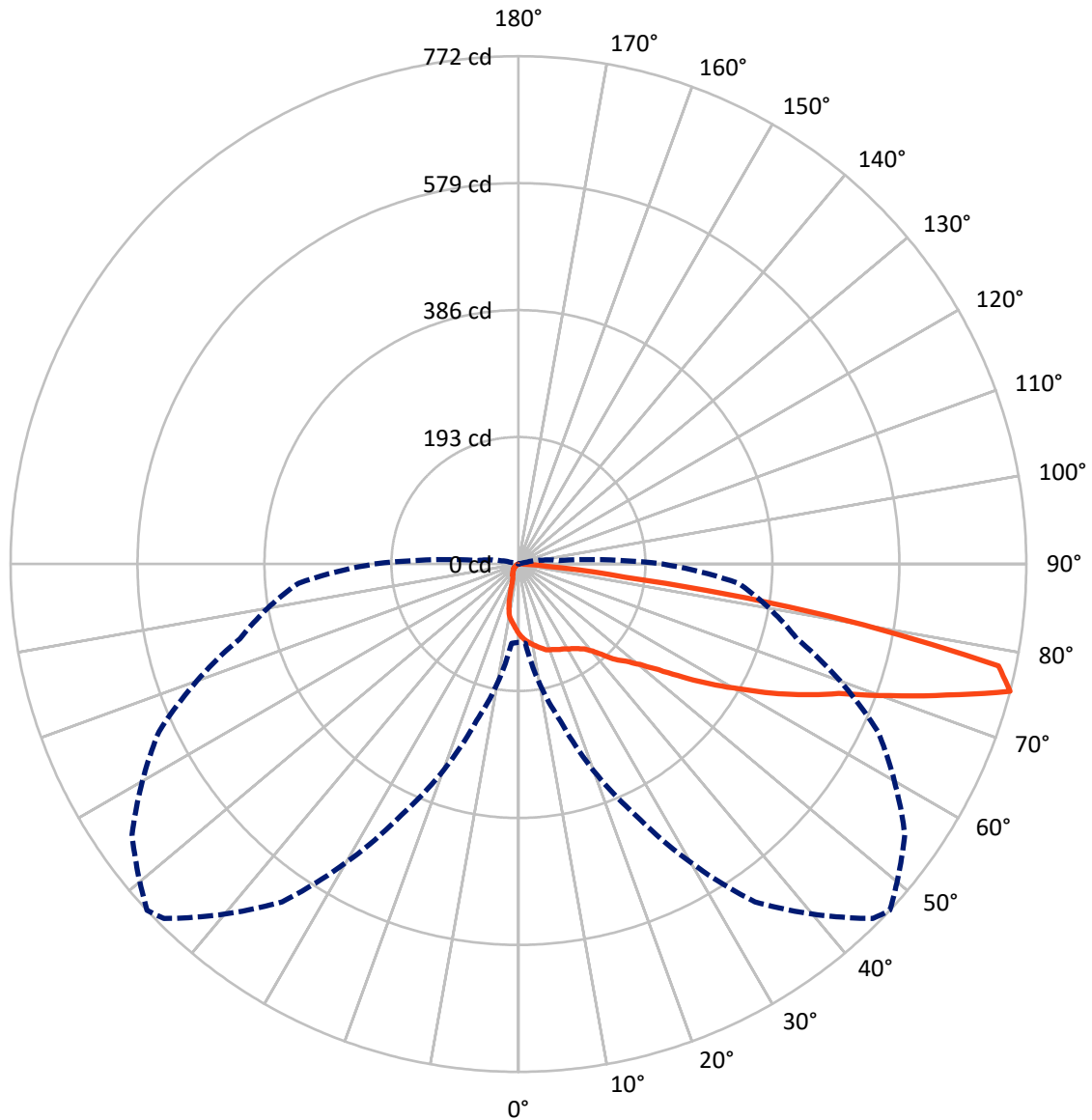


Based on 25 foot mounting height. Maximum calculated value = 0.2 fc  
 Type IV - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical



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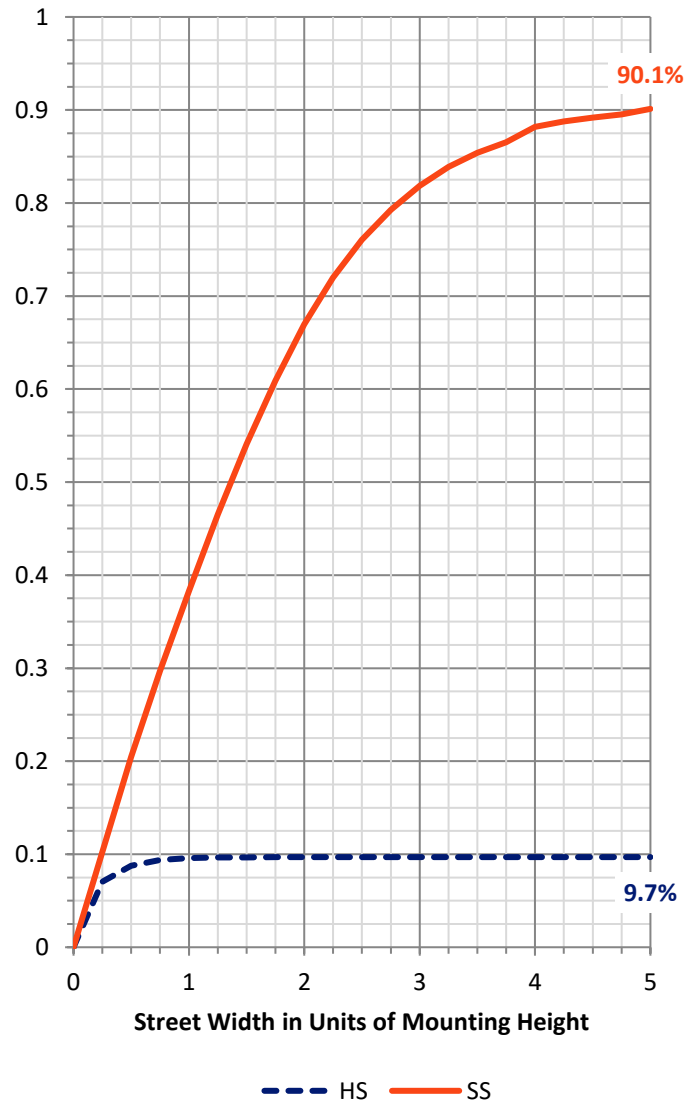
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	90.5	0.0	90.5
	% Fixture	9.8	0.0	9.8
<b>Street Side</b>	Lumens	835.5	0.0	835.5
	% Fixture	90.2	0.0	90.2
<b>Total</b>	Lumens	926.0	0.0	926.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9.9	1.1
10°-20°	27.0	2.9
20°-30°	42.9	4.6
30°-40°	61.4	6.6
40°-50°	94.9	10.2
50°-60°	166.0	17.9
60°-70°	268.6	29.0
70°-80°	232.6	25.1
80°-90°	22.6	2.4
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°	926.0	100.0
0°-180°	926.0	100.0

**Coefficient of Utilization**



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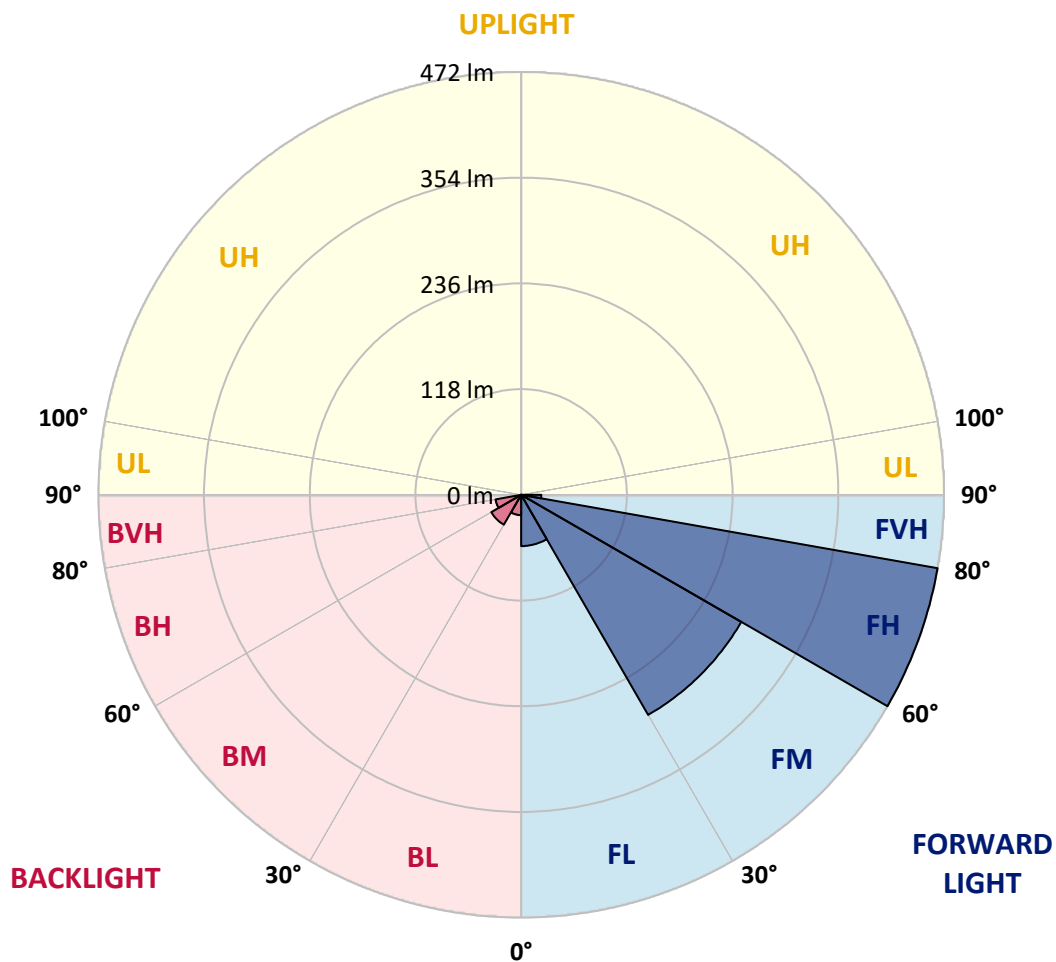
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	57.2	6.2			
FM	(30°-60°)	283.7	30.6			
FH	(60°-80°)	472.1	51.0			G0/660
FVH	(80°-90°)	22.5	2.4			G1/100
BL	(0°-30°)	22.7	2.4	B0/110		
BM	(30°-60°)	38.6	4.2	B0/220		
BH	(60°-80°)	29.1	3.1	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-G1**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0
2.5°	115.0	116.0	115.0	114.0	113.0	111.0	112.0	110.0	109.0	107.0	105.0
5°	125.0	125.0	124.0	122.0	120.0	117.0	117.0	115.0	111.0	108.0	105.0
7.5°	132.0	132.0	131.0	129.0	125.0	122.0	121.0	118.0	114.0	110.0	105.0
10°	138.1	137.1	136.1	133.0	129.0	125.0	125.0	121.0	117.0	113.0	107.0
12.5°	143.1	143.1	141.1	137.1	133.0	130.0	129.0	126.0	122.0	116.0	110.0
15°	147.1	147.1	145.1	140.1	136.1	134.0	133.0	130.0	126.0	120.0	113.0
17.5°	147.1	148.1	147.1	142.1	139.1	136.1	137.1	134.0	130.0	124.0	116.0
20°	148.1	148.1	147.1	142.1	140.1	139.1	139.1	136.1	133.0	128.0	120.0
22.5°	149.1	150.1	149.1	142.1	141.1	141.1	141.1	140.1	136.1	130.0	123.0
25°	150.1	150.1	150.1	143.1	142.1	143.1	144.1	143.1	140.1	134.0	127.0
27.5°	152.1	151.1	151.1	144.1	144.1	145.1	146.1	146.1	144.1	138.1	130.0
30°	154.1	154.1	154.1	146.1	146.1	148.1	150.1	151.1	149.1	142.1	134.0
32.5°	160.1	159.1	158.1	149.1	149.1	152.1	153.1	155.1	154.1	147.1	139.1
35°	169.1	167.1	164.1	155.1	154.1	157.1	158.1	160.1	161.1	153.1	145.1
37.5°	179.1	177.1	173.1	163.1	161.1	163.1	164.1	166.1	168.1	162.1	153.1
40°	190.1	189.1	190.1	177.1	170.1	173.1	174.1	175.1	178.1	172.1	162.1
42.5°	213.1	214.1	216.1	191.1	180.1	188.1	189.1	186.1	188.1	184.1	174.1
45°	244.1	242.1	245.1	211.1	194.1	204.1	207.1	200.1	202.1	197.1	187.1
47.5°	287.1	284.1	275.1	240.1	214.1	219.1	221.1	219.1	219.1	216.1	205.1
50°	322.1	320.1	306.1	276.1	246.1	240.1	240.1	241.1	243.1	241.1	231.1
52.5°	355.1	353.1	339.1	314.1	289.1	268.1	267.1	270.1	273.1	279.1	269.1
55°	371.1	371.1	364.1	353.1	330.1	306.1	303.1	305.1	314.1	322.1	310.1
57.5°	401.1	400.1	399.1	398.1	382.1	351.1	344.1	344.1	362.1	366.1	346.1
60°	439.2	441.2	451.2	453.2	435.2	397.1	385.1	391.1	414.2	407.1	389.1
62.5°	463.2	468.2	498.2	525.2	505.2	442.2	432.2	440.2	456.2	447.2	446.2
65°	441.2	438.2	511.2	567.2	589.2	491.2	479.2	483.2	497.2	491.2	506.2
67.5°	397.1	398.1	466.2	579.2	648.2	539.2	525.2	527.2	542.2	536.2	570.2
70°	350.1	355.1	413.2	555.2	665.2	611.2	599.2	587.2	589.2	563.2	615.2
72.5°	288.1	292.1	372.1	507.2	665.2	686.3	681.3	659.2	620.2	553.2	571.2
75°	119.0	121.0	247.1	421.2	627.2	762.3	772.3	717.3	603.2	438.2	336.1
77.5°	55.0	56.0	80.0	246.1	478.2	729.3	746.3	637.2	421.2	205.1	98.0
80°	25.0	26.0	35.0	75.0	233.1	465.2	479.2	344.1	172.1	48.0	15.0
82.5°	5.0	6.0	11.0	30.0	85.0	153.1	163.1	116.0	54.0	17.0	6.0
85°	2.0	2.0	5.0	17.0	39.0	38.0	44.0	41.0	34.0	15.0	3.0
87.5°	1.0	1.0	2.0	7.0	19.0	10.0	10.0	17.0	23.0	14.0	1.0
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°	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0
2.5°	105.0	104.0	102.0	101.0	100.0	99.0	99.0	98.0	98.0	98.0	98.0
5°	103.0	102.0	98.0	96.0	94.0	92.0	92.0	91.0	91.0	91.0	91.0
7.5°	103.0	101.0	96.0	92.0	89.0	86.0	85.0	83.0	82.0	81.0	82.0
10°	104.0	101.0	95.0	90.0	86.0	80.0	72.0	65.0	61.0	60.0	60.0
12.5°	106.0	102.0	95.0	88.0	80.0	67.0	53.0	43.0	37.0	35.0	36.0
15°	109.0	104.0	96.0	87.0	70.0	49.0	33.0	26.0	26.0	27.0	28.0
17.5°	111.0	106.0	96.0	82.0	56.0	31.0	24.0	23.0	23.0	26.0	26.0
20°	115.0	109.0	98.0	74.0	39.0	24.0	22.0	22.0	22.0	25.0	25.0
22.5°	118.0	113.0	100.0	63.0	26.0	22.0	21.0	21.0	21.0	24.0	24.0
25°	123.0	118.0	100.0	49.0	21.0	21.0	21.0	21.0	21.0	23.0	23.0
27.5°	127.0	123.0	97.0	35.0	19.0	19.0	20.0	20.0	20.0	21.0	22.0
30°	131.0	128.0	92.0	24.0	18.0	18.0	18.0	19.0	18.0	20.0	20.0
32.5°	136.1	134.0	84.0	18.0	16.0	16.0	16.0	17.0	17.0	18.0	19.0
35°	143.1	142.1	74.0	16.0	15.0	15.0	15.0	15.0	16.0	16.0	17.0
37.5°	152.1	151.1	62.0	15.0	14.0	13.0	13.0	13.0	13.0	14.0	15.0
40°	163.1	163.1	49.0	14.0	13.0	12.0	12.0	11.0	11.0	11.0	12.0
42.5°	176.1	176.1	36.0	13.0	12.0	11.0	10.0	9.0	8.0	8.0	9.0
45°	189.1	188.1	25.0	13.0	12.0	10.0	8.0	7.0	5.0	5.0	6.0
47.5°	207.1	199.1	17.0	13.0	12.0	9.0	7.0	4.0	3.0	3.0	4.0
50°	233.1	214.1	14.0	12.0	11.0	7.0	5.0	3.0	2.0	2.0	3.0
52.5°	272.1	233.1	13.0	11.0	10.0	6.0	3.0	2.0	2.0	2.0	2.0
55°	310.1	252.1	13.0	10.0	8.0	4.0	2.0	1.0	1.0	1.0	1.0
57.5°	347.1	272.1	12.0	9.0	6.0	2.0	1.0	1.0	1.0	1.0	1.0
60°	391.1	288.1	10.0	7.0	4.0	2.0	1.0	1.0	1.0	1.0	1.0
62.5°	456.2	302.1	7.0	5.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0
65°	534.2	313.1	5.0	4.0	2.0	1.0	1.0	1.0	0.0	0.0	0.0
67.5°	583.2	313.1	3.0	3.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
70°	575.2	289.1	3.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
72.5°	464.2	201.1	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	219.1	62.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	60.0	17.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	10.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	1.0	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)