

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: P573017

Luminaire Tested: **ARCH-S-PA2-20-760-U-T3-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573017  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-20-760-U-T3-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 220mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2748 lumens  
Efficiency: N/A  
Efficacy: 116.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G1

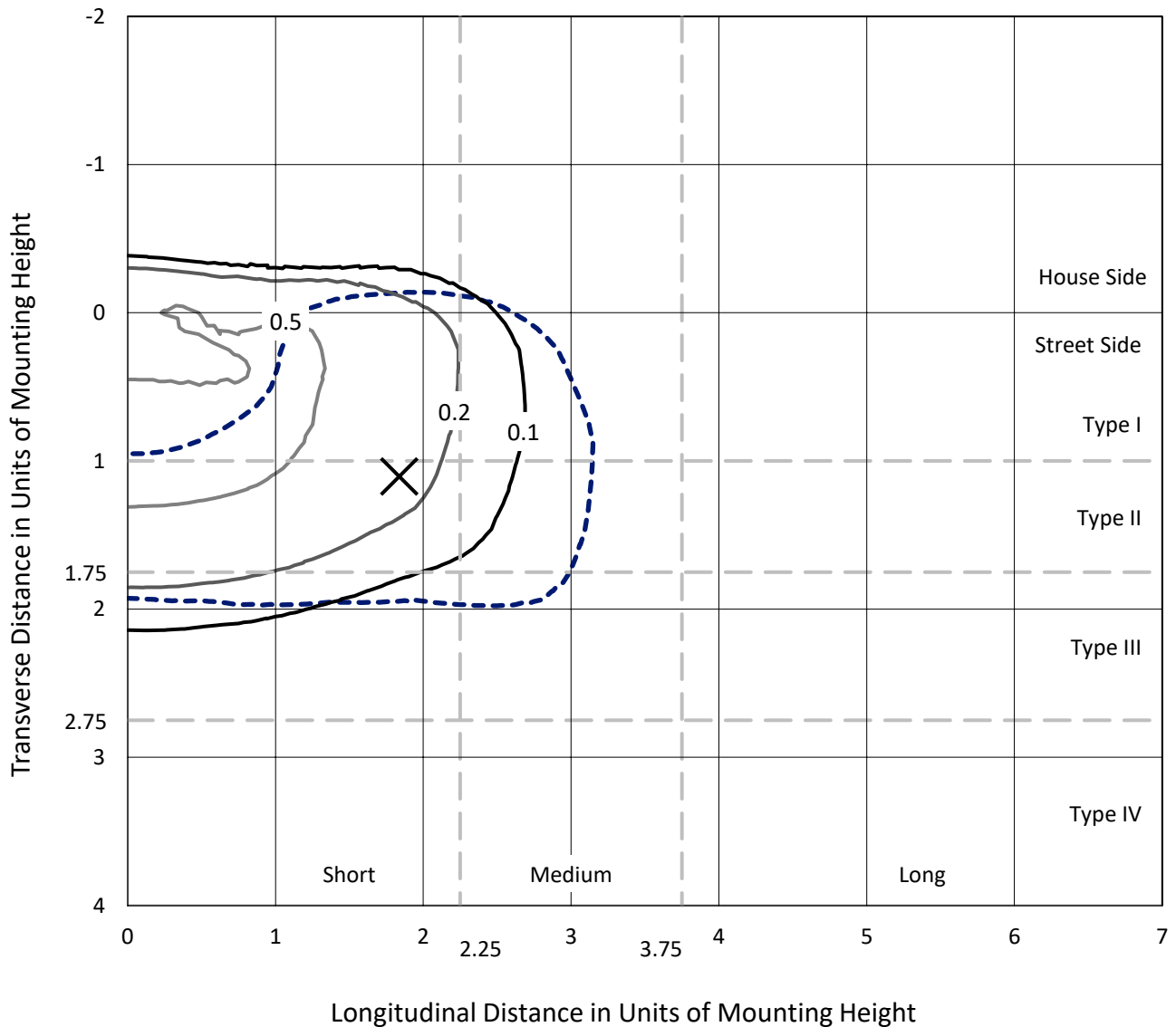
Input Watts (W): 23.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

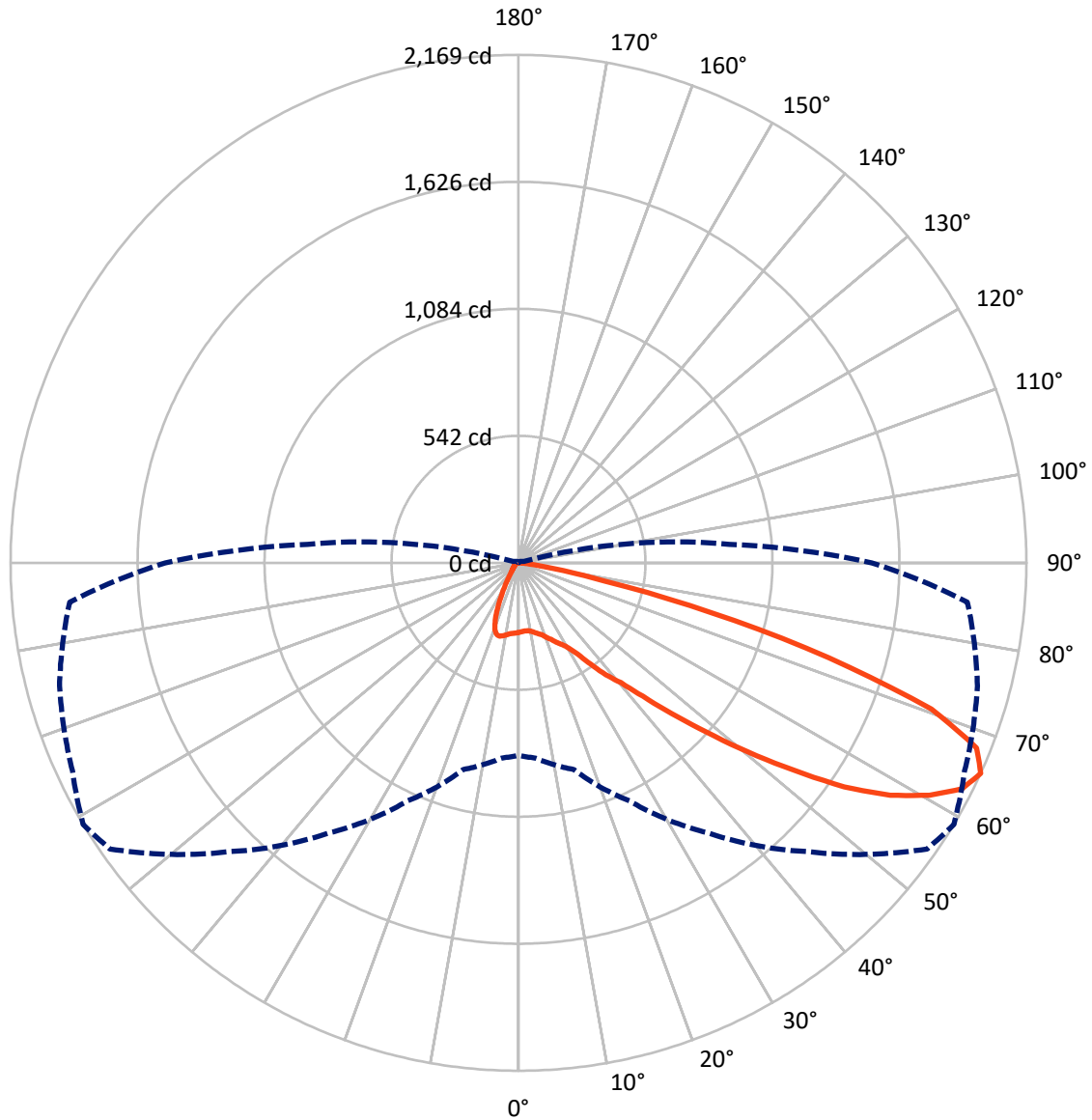
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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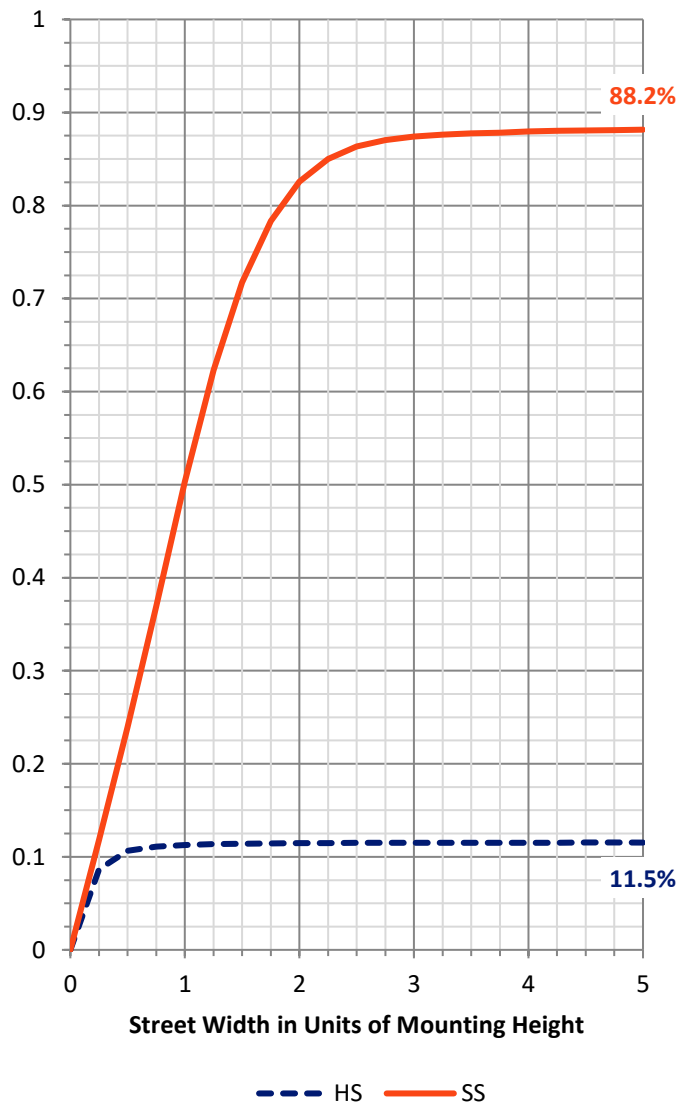
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	320.6	0.0	320.6
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	2427.4	0.0	2427.4
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	2748.0	0.0	2748.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.1	1.0
10°-20°	79.7	2.9
20°-30°	135.4	4.9
30°-40°	239.8	8.7
40°-50°	452.4	16.5
50°-60°	765.5	27.9
60°-70°	795.9	29.0
70°-80°	238.7	8.7
80°-90°	12.5	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°	2748.0	100.0
0°-180°	2748.0	100.0

**Coefficient of Utilization**



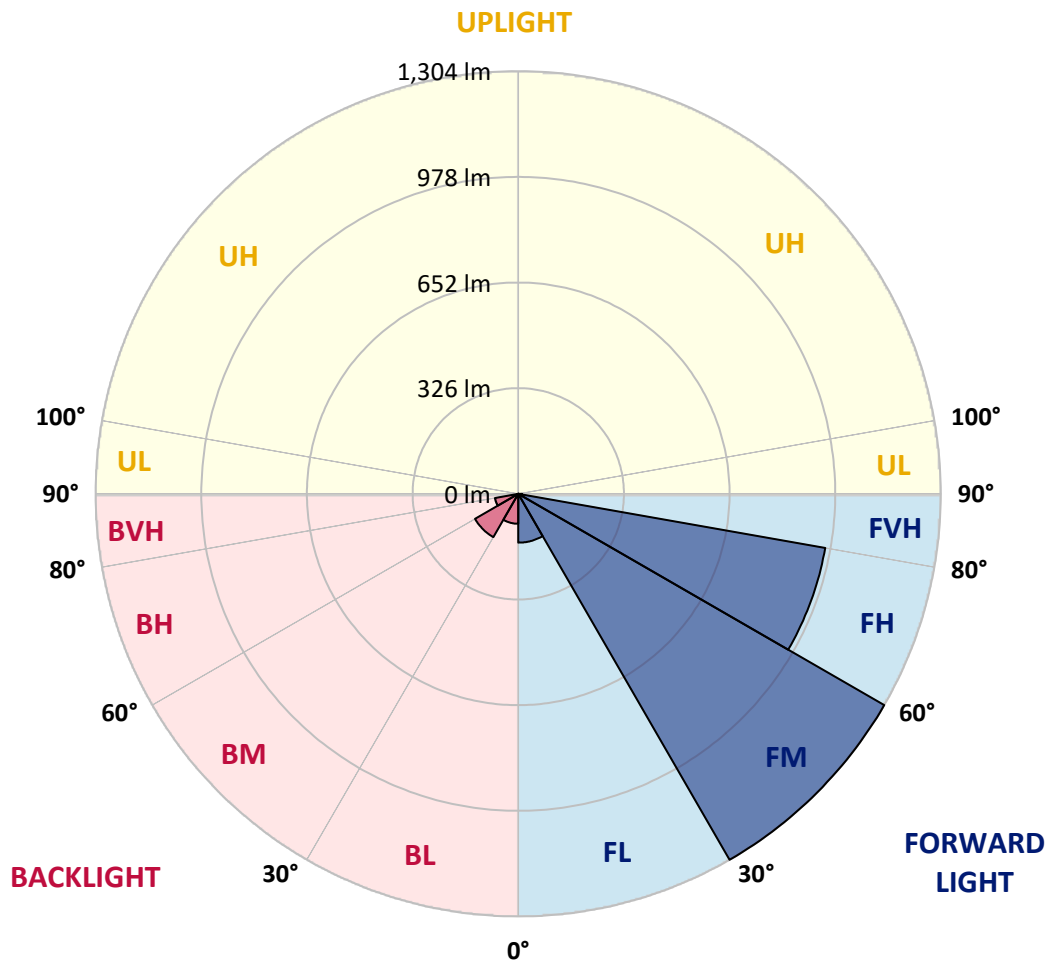
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	150.7	5.5			
FM (30°-60°)	1303.7	47.4			
FH (60°-80°)	961.6	35.0			G1/1800
FVH (80°-90°)	11.5	0.4			G1/100
BL (0°-30°)	92.5	3.4	B0/110		
BM (30°-60°)	154.1	5.6	B0/220		
BH (60°-80°)	72.9	2.7	B0/110		G0/110
BVH (80°-90°)	1.1	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	296.9	296.9	296.9	296.9	296.9	296.9	296.9	296.9	296.9	296.9	296.9
2.5°	289.0	288.0	288.0	289.9	290.9	291.9	293.9	293.9	293.9	295.9	296.9
5°	275.0	275.0	276.0	278.0	282.0	285.0	290.9	291.9	292.9	297.9	299.9
7.5°	266.0	266.0	267.0	271.0	276.0	283.0	290.9	292.9	295.9	302.9	307.9
10°	265.0	264.0	266.0	270.0	276.0	285.0	293.9	296.9	302.9	311.9	318.9
12.5°	268.0	267.0	269.0	273.0	279.0	288.0	299.9	304.9	311.9	323.9	333.9
15°	270.0	269.0	271.0	276.0	283.0	293.9	307.9	313.9	322.9	339.9	349.9
17.5°	276.0	275.0	276.0	280.0	287.0	298.9	316.9	322.9	337.9	356.9	367.9
20°	302.9	301.9	295.9	293.9	294.9	305.9	328.9	338.9	356.9	380.9	388.9
22.5°	358.9	354.9	343.9	325.9	313.9	317.9	343.9	354.9	378.9	405.9	411.9
25°	433.9	430.9	414.9	383.9	349.9	339.9	360.9	375.9	404.9	434.9	432.9
27.5°	518.9	512.9	497.9	454.9	408.9	375.9	381.9	394.9	426.9	458.9	448.9
30°	592.9	590.9	573.9	537.9	483.9	434.9	413.9	420.9	449.9	483.9	471.9
32.5°	660.9	654.9	640.9	606.9	556.9	506.9	464.9	464.9	488.9	528.9	510.9
35°	735.9	731.9	714.9	680.9	632.9	573.9	535.9	531.9	551.9	596.9	557.9
37.5°	812.9	802.9	794.9	759.9	711.9	660.9	614.9	605.9	615.9	648.9	600.9
40°	908.8	908.8	890.8	858.9	813.9	759.9	695.9	672.9	669.9	712.9	675.9
42.5°	1020.8	1017.8	1002.8	972.8	929.8	879.8	798.9	777.9	775.9	827.9	783.9
45°	1149.8	1147.8	1129.8	1104.8	1074.8	1019.8	939.8	918.8	906.8	966.8	914.8
47.5°	1267.8	1260.8	1254.8	1257.8	1240.8	1178.8	1103.8	1078.8	1077.8	1124.8	1057.8
50°	1348.8	1344.8	1365.8	1385.8	1417.8	1378.8	1289.8	1267.8	1250.8	1312.8	1206.8
52.5°	1401.8	1399.8	1441.8	1498.7	1564.7	1561.7	1482.7	1469.7	1455.7	1472.7	1339.8
55°	1422.8	1422.8	1472.7	1577.7	1693.7	1743.7	1706.7	1688.7	1639.7	1604.7	1485.7
57.5°	1397.8	1394.8	1459.7	1596.7	1773.7	1876.7	1892.7	1871.7	1794.7	1755.7	1647.7
60°	1291.8	1293.8	1370.8	1543.7	1767.7	1930.7	2033.6	2014.7	1937.7	1879.7	1783.7
62.5°	1093.8	1110.8	1191.8	1379.8	1639.7	1887.7	2114.6	2124.6	2041.6	1969.7	1904.7
65°	821.9	836.9	913.8	1121.8	1406.8	1743.7	2129.6	2168.6	2101.6	2028.6	1923.7
67.5°	499.9	504.9	598.9	755.9	1035.8	1452.7	2024.7	2109.6	2061.6	1941.7	1735.7
70°	233.0	246.0	291.9	412.9	655.9	1069.8	1749.7	1869.7	1815.7	1666.7	1319.8
72.5°	91.0	95.0	124.0	191.0	347.9	672.9	1305.8	1385.8	1348.8	1183.8	786.9
75°	45.0	48.0	60.0	91.0	159.0	278.0	797.9	849.9	788.9	594.9	332.9
77.5°	33.0	33.0	40.0	56.0	87.0	103.0	335.9	376.9	355.9	230.0	91.0
80°	22.0	24.0	28.0	38.0	55.0	50.0	127.0	151.0	126.0	71.0	32.0
82.5°	13.0	14.0	21.0	27.0	37.0	29.0	43.0	48.0	52.0	35.0	15.0
85°	7.0	7.0	14.0	20.0	20.0	13.0	15.0	17.0	20.0	21.0	8.0
87.5°	2.0	2.0	9.0	12.0	8.0	7.0	8.0	8.0	9.0	11.0	4.0
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°	296.9	296.9	296.9	296.9	296.9	296.9	296.9	296.9	296.9	296.9	296.9
2.5°	297.9	297.9	298.9	298.9	299.9	299.9	299.9	299.9	300.9	301.9	301.9
5°	300.9	301.9	301.9	301.9	301.9	299.9	298.9	297.9	297.9	298.9	298.9
7.5°	308.9	309.9	308.9	306.9	303.9	299.9	295.9	295.9	294.9	295.9	294.9
10°	320.9	320.9	319.9	314.9	309.9	301.9	293.9	288.0	284.0	283.0	281.0
12.5°	335.9	335.9	332.9	323.9	314.9	299.9	279.0	259.0	243.0	236.0	234.0
15°	350.9	350.9	346.9	333.9	315.9	280.0	236.0	194.0	170.0	160.0	154.0
17.5°	368.9	366.9	359.9	341.9	304.9	240.0	169.0	126.0	107.0	98.0	98.0
20°	387.9	385.9	372.9	342.9	277.0	172.0	110.0	87.0	82.0	80.0	80.0
22.5°	408.9	403.9	383.9	334.9	218.0	117.0	83.0	77.0	75.0	74.0	74.0
25°	425.9	417.9	391.9	312.9	156.0	82.0	73.0	71.0	67.0	66.0	64.0
27.5°	438.9	426.9	394.9	266.0	103.0	68.0	65.0	61.0	57.0	53.0	53.0
30°	455.9	440.9	396.9	207.0	70.0	59.0	56.0	51.0	46.0	42.0	42.0
32.5°	489.9	467.9	397.9	145.0	58.0	52.0	46.0	40.0	35.0	33.0	32.0
35°	526.9	496.9	386.9	94.0	51.0	44.0	37.0	32.0	27.0	26.0	26.0
37.5°	567.9	539.9	362.9	64.0	45.0	37.0	30.0	25.0	22.0	21.0	21.0
40°	636.9	603.9	322.9	51.0	39.0	31.0	25.0	21.0	19.0	18.0	18.0
42.5°	735.9	678.9	273.0	44.0	34.0	26.0	20.0	17.0	16.0	15.0	15.0
45°	849.9	762.9	215.0	40.0	30.0	22.0	17.0	15.0	14.0	13.0	13.0
47.5°	980.8	849.9	170.0	35.0	26.0	19.0	15.0	13.0	12.0	11.0	11.0
50°	1104.8	917.8	128.0	31.0	23.0	16.0	13.0	12.0	11.0	10.0	10.0
52.5°	1206.8	963.8	97.0	27.0	20.0	14.0	12.0	11.0	9.0	9.0	9.0
55°	1329.8	999.8	74.0	24.0	18.0	13.0	11.0	9.0	8.0	7.0	7.0
57.5°	1436.8	1012.8	54.0	21.0	16.0	12.0	10.0	8.0	6.0	5.0	5.0
60°	1508.7	1001.8	39.0	18.0	14.0	10.0	8.0	6.0	4.0	3.0	3.0
62.5°	1559.7	977.8	30.0	16.0	12.0	9.0	7.0	5.0	3.0	2.0	2.0
65°	1508.7	903.8	24.0	14.0	10.0	8.0	5.0	4.0	2.0	1.0	1.0
67.5°	1304.8	757.9	19.0	12.0	9.0	7.0	5.0	3.0	1.0	0.0	0.0
70°	937.8	540.9	16.0	11.0	8.0	6.0	4.0	2.0	1.0	0.0	0.0
72.5°	522.9	279.0	15.0	10.0	8.0	6.0	4.0	2.0	1.0	0.0	0.0
75°	212.0	96.0	14.0	10.0	8.0	5.0	4.0	2.0	1.0	0.0	0.0
77.5°	62.0	33.0	12.0	9.0	8.0	6.0	4.0	2.0	1.0	0.0	0.0
80°	22.0	15.0	9.0	8.0	6.0	5.0	4.0	3.0	1.0	0.0	0.0
82.5°	10.0	6.0	4.0	3.0	3.0	3.0	3.0	2.0	1.0	0.0	0.0
85°	4.0	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0
87.5°	3.0	2.0	1.0	1.0	1.0	1.0	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)