

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: P573006

Luminaire Tested: **ARCH-S-PA2-20-750-U-T2U-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573006  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-20-750-U-T2U-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 220mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2537 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G0

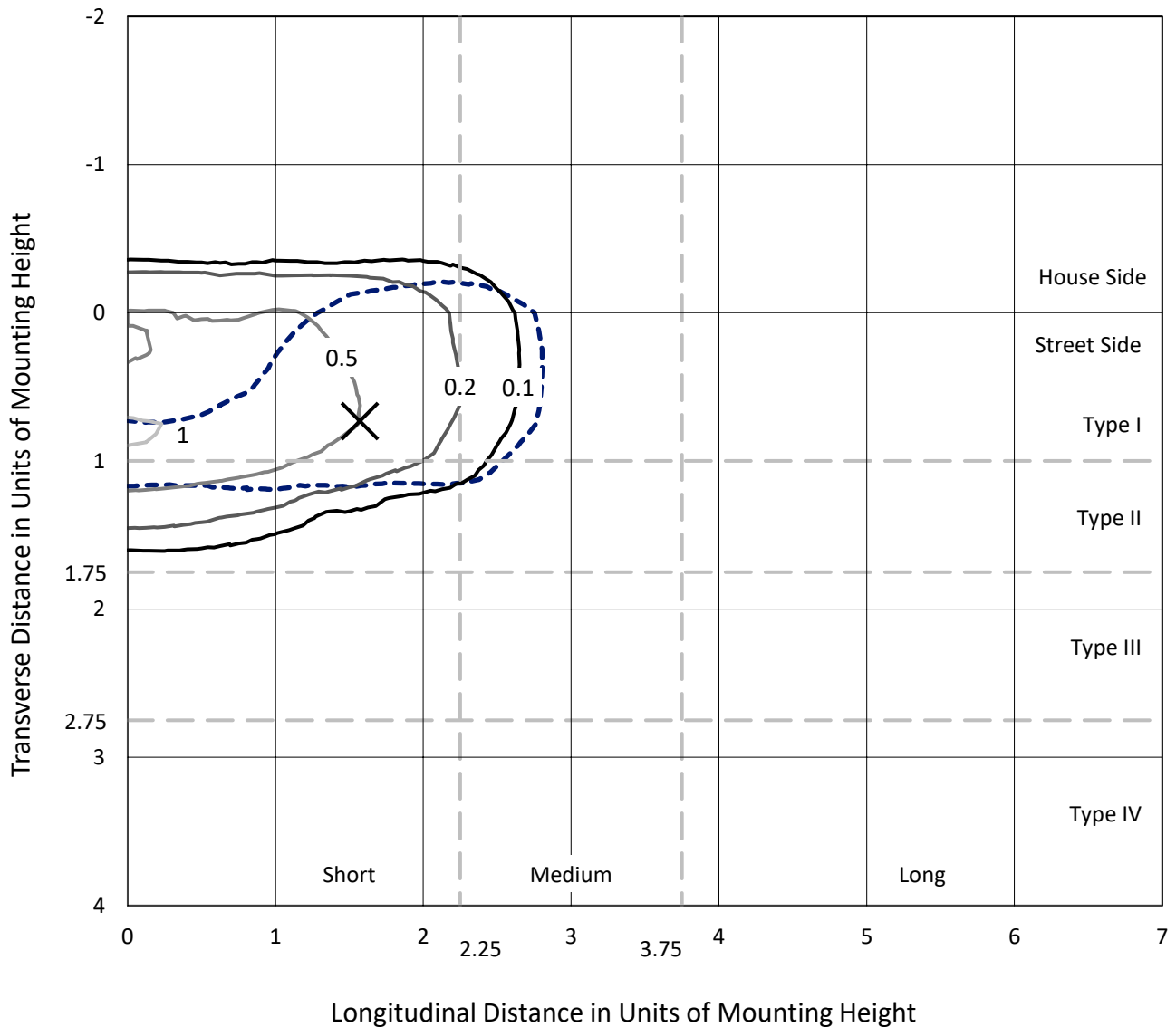
Input Watts (W): 23.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

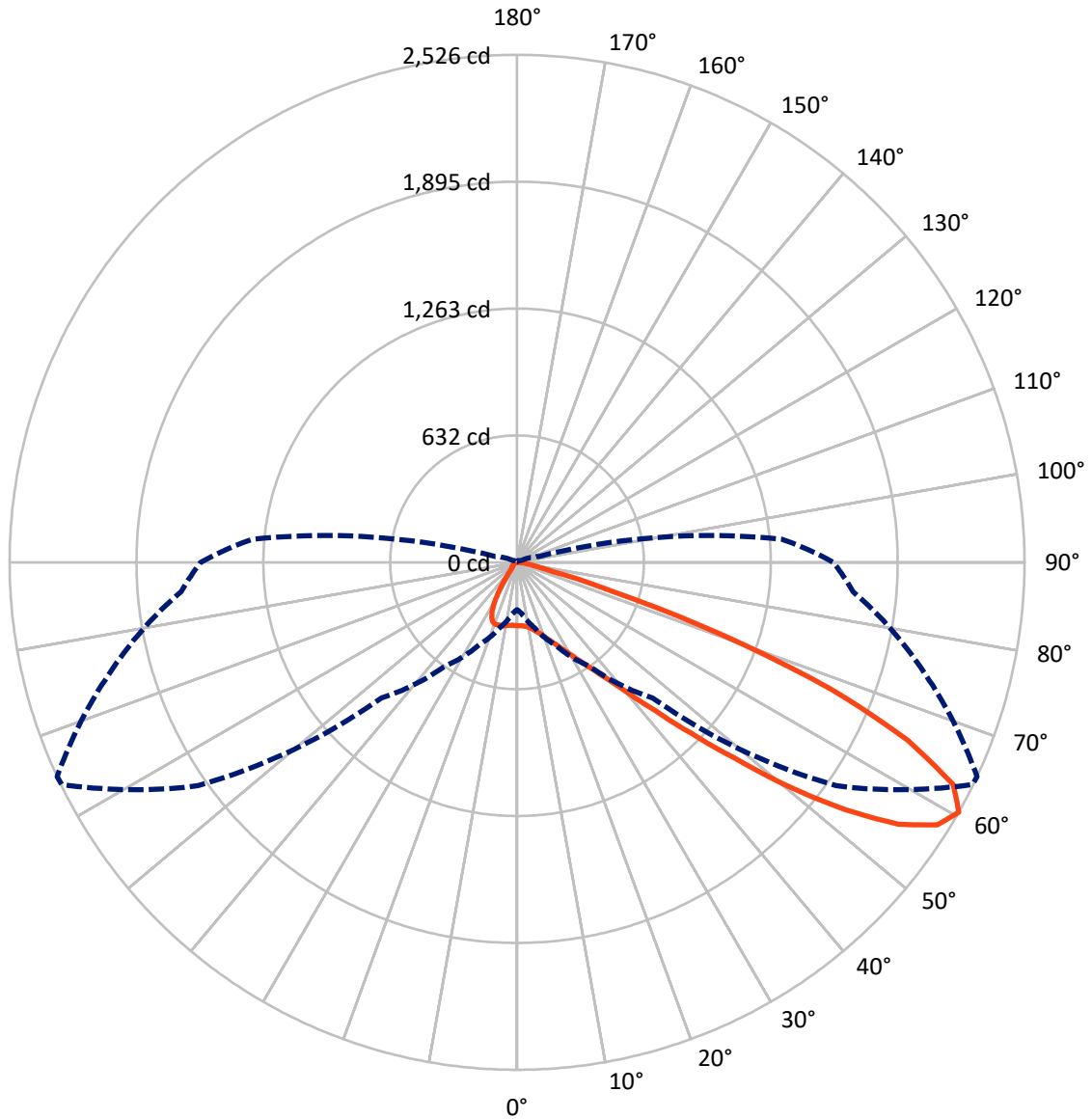
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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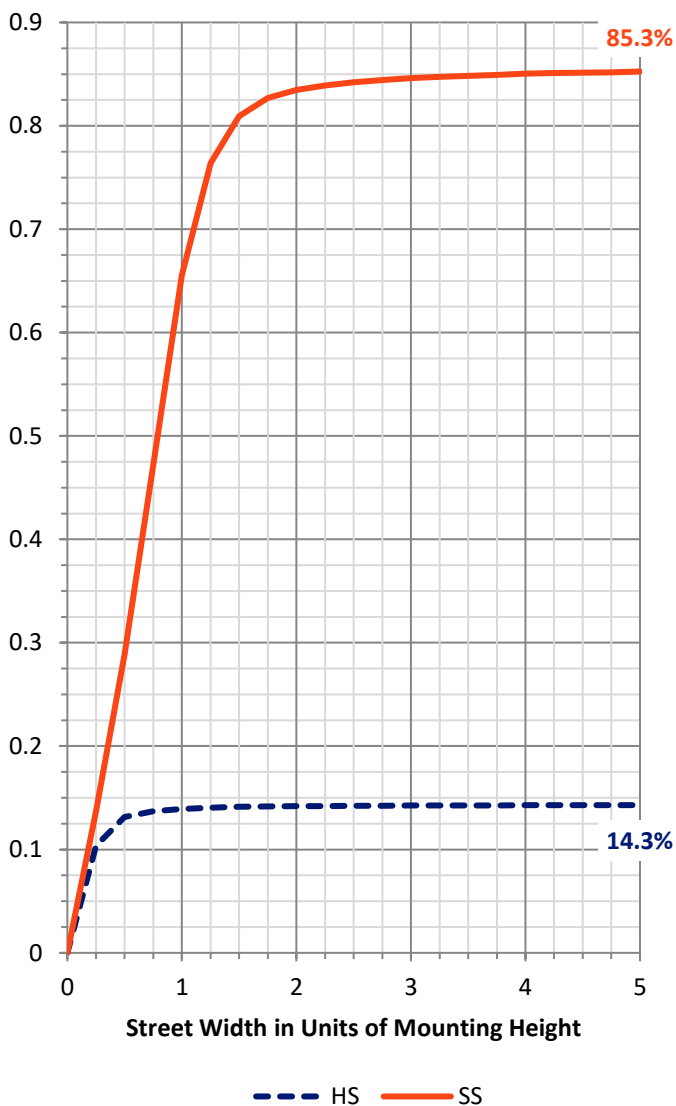
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	367.3	0.0	367.3
	% Fixture	14.5	0.0	14.5
<b>Street Side</b>	Lumens	2169.7	0.0	2169.7
	% Fixture	85.5	0.0	85.5
<b>Total</b>	Lumens	2537.0	0.0	2537.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.9	1.2
10°-20°	84.7	3.3
20°-30°	144.0	5.7
30°-40°	297.0	11.7
40°-50°	597.4	23.5
50°-60°	731.0	28.8
60°-70°	517.1	20.4
70°-80°	124.6	4.9
80°-90°	11.3	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°	2537.0	100.0
0°-180°	2537.0	100.0

**Coefficient of Utilization**

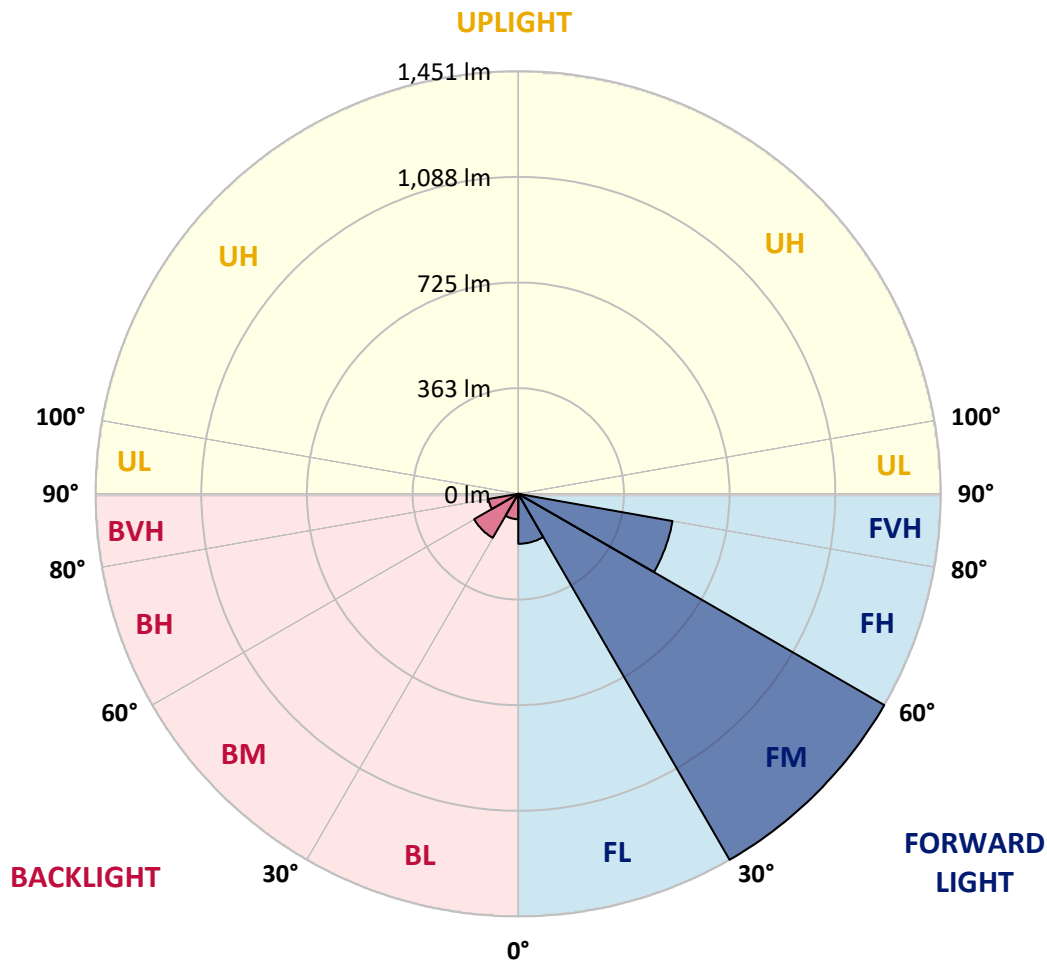


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	171.5	6.8			
FM (30°-60°)	1450.8	57.2			
FH (60°-80°)	537.6	21.2			G0/660
FVH (80°-90°)	9.8	0.4			G0/10
BL (0°-30°)	87.1	3.4	B0/110		
BM (30°-60°)	174.6	6.9	B0/220		
BH (60°-80°)	104.1	4.1	B0/110		G0/110
BVH (80°-90°)	1.5	0.1			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°	64°	65°	75°	85°
0°	316.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0
2.5°	317.0	316.0	316.0	316.0	317.0	317.0	318.0	316.0	316.0	316.0	316.0
5°	315.0	314.0	314.0	315.0	316.0	316.0	318.0	318.0	318.0	319.0	319.0
7.5°	319.0	317.0	317.0	318.0	319.0	319.0	321.0	322.0	322.0	324.0	325.0
10°	324.0	323.0	323.0	325.0	327.0	327.0	330.0	330.0	330.0	332.0	333.0
12.5°	331.0	330.0	330.0	333.0	336.0	338.1	340.1	341.1	342.1	342.1	342.1
15°	341.1	340.1	340.1	343.1	347.1	352.1	355.1	355.1	357.1	356.1	352.1
17.5°	355.1	354.1	355.1	357.1	362.1	367.1	373.1	374.1	373.1	371.1	365.1
20°	378.1	375.1	377.1	382.1	382.1	385.1	393.1	396.1	397.1	391.1	380.1
22.5°	402.1	402.1	404.1	410.1	406.1	410.1	417.1	422.1	424.1	419.1	401.1
25°	447.1	449.1	446.1	444.1	434.1	436.1	445.1	455.1	455.1	451.1	425.1
27.5°	546.1	544.1	523.1	494.1	468.1	470.1	479.1	492.1	493.1	484.1	449.1
30°	688.1	690.1	649.1	583.1	526.1	511.1	521.1	536.1	538.1	523.1	480.1
32.5°	910.1	893.1	817.1	729.1	622.1	568.1	572.1	588.1	594.1	581.1	529.1
35°	1197.2	1157.2	1043.2	934.1	779.1	670.1	639.1	656.1	659.1	652.1	590.1
37.5°	1368.2	1336.2	1262.2	1163.2	981.1	806.1	727.1	744.1	741.1	727.1	651.1
40°	1474.2	1456.2	1416.2	1370.2	1254.2	1020.2	872.1	858.1	859.1	839.1	750.1
42.5°	1534.2	1518.2	1503.2	1515.2	1481.2	1408.2	1082.2	1018.2	1012.1	974.1	865.1
45°	1537.2	1513.2	1531.2	1601.2	1655.2	1752.3	1356.2	1208.2	1211.2	1148.2	1008.1
47.5°	1422.2	1403.2	1455.2	1592.2	1771.3	1977.3	1675.2	1468.2	1454.2	1330.2	1153.2
50°	1195.2	1194.2	1263.2	1457.2	1771.3	2093.3	2017.3	1773.3	1758.3	1520.2	1285.2
52.5°	946.1	965.1	1012.1	1196.2	1608.2	2082.3	2269.3	2088.3	2046.3	1689.3	1395.2
55°	736.1	729.1	786.1	913.1	1275.2	1892.3	2351.3	2336.3	2301.3	1839.3	1492.2
57.5°	452.1	478.1	555.1	668.1	928.1	1488.2	2233.3	2487.4	2466.4	1979.3	1593.2
60°	235.0	255.0	338.1	456.1	634.1	954.1	1938.3	2522.4	2526.4	2092.3	1679.2
62.5°	148.0	147.0	185.0	320.0	408.1	536.1	1505.2	2398.4	2436.4	2179.3	1761.3
65°	111.0	112.0	127.0	212.0	277.0	280.0	893.1	2074.3	2137.3	2202.3	1789.3
67.5°	103.0	104.0	111.0	139.0	208.0	187.0	393.1	1599.2	1687.2	1990.3	1681.2
70°	92.0	93.0	104.0	115.0	157.0	137.0	177.0	963.1	1085.2	1444.2	1345.2
72.5°	72.0	74.0	87.0	109.0	117.0	104.0	123.0	426.1	497.1	794.1	770.1
75°	53.0	54.0	66.0	84.0	103.0	74.0	95.0	169.0	185.0	298.0	254.0
77.5°	37.0	37.0	46.0	63.0	86.0	52.0	68.0	91.0	93.0	111.0	73.0
80°	23.0	24.0	29.0	43.0	53.0	50.0	42.0	61.0	61.0	58.0	30.0
82.5°	13.0	14.0	20.0	29.0	36.0	34.0	27.0	35.0	36.0	37.0	17.0
85°	6.0	7.0	12.0	18.0	21.0	16.0	16.0	18.0	18.0	24.0	10.0
87.5°	1.0	1.0	6.0	8.0	7.0	8.0	8.0	10.0	10.0	12.0	5.0
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°	316.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0
2.5°	315.0	315.0	315.0	314.0	314.0	313.0	311.0	311.0	311.0	311.0	312.0
5°	319.0	318.0	317.0	314.0	312.0	308.0	304.0	303.0	300.0	300.0	301.0
7.5°	324.0	324.0	321.0	316.0	311.0	304.0	297.0	292.0	287.0	286.0	285.0
10°	333.0	331.0	328.0	319.0	311.0	300.0	289.0	276.0	266.0	261.0	259.0
12.5°	340.1	339.1	333.0	323.0	310.0	293.0	268.0	238.0	214.0	201.0	201.0
15°	350.1	348.1	339.1	325.0	307.0	267.0	216.0	170.0	144.0	130.0	128.0
17.5°	360.1	356.1	345.1	326.0	294.0	220.0	151.0	109.0	91.0	84.0	82.0
20°	372.1	365.1	349.1	327.0	262.0	160.0	98.0	73.0	66.0	63.0	64.0
22.5°	388.1	376.1	353.1	321.0	214.0	104.0	69.0	59.0	55.0	52.0	52.0
25°	408.1	391.1	360.1	304.0	155.0	70.0	55.0	49.0	45.0	43.0	42.0
27.5°	426.1	405.1	367.1	274.0	99.0	55.0	46.0	41.0	37.0	36.0	35.0
30°	450.1	421.1	374.1	226.0	65.0	45.0	39.0	34.0	31.0	30.0	30.0
32.5°	491.1	452.1	387.1	172.0	49.0	39.0	33.0	29.0	27.0	26.0	26.0
35°	539.1	490.1	398.1	120.0	42.0	33.0	28.0	25.0	24.0	23.0	23.0
37.5°	589.1	535.1	400.1	76.0	37.0	29.0	25.0	23.0	21.0	21.0	21.0
40°	679.1	614.1	391.1	51.0	32.0	26.0	22.0	21.0	19.0	19.0	19.0
42.5°	784.1	710.1	368.1	41.0	29.0	23.0	21.0	19.0	17.0	17.0	16.0
45°	920.1	819.1	329.0	36.0	26.0	21.0	19.0	17.0	16.0	15.0	15.0
47.5°	1048.2	943.1	292.0	32.0	24.0	20.0	17.0	15.0	14.0	14.0	14.0
50°	1170.2	1038.2	249.0	30.0	22.0	19.0	16.0	14.0	13.0	12.0	12.0
52.5°	1258.2	1113.2	209.0	27.0	20.0	17.0	15.0	13.0	11.0	10.0	10.0
55°	1356.2	1189.2	173.0	24.0	19.0	16.0	13.0	11.0	9.0	8.0	8.0
57.5°	1466.2	1263.2	140.0	22.0	18.0	14.0	11.0	9.0	7.0	6.0	6.0
60°	1575.2	1322.2	112.0	20.0	16.0	13.0	10.0	7.0	5.0	4.0	4.0
62.5°	1684.2	1362.2	86.0	18.0	15.0	11.0	8.0	5.0	3.0	2.0	2.0
65°	1729.3	1351.2	64.0	16.0	13.0	9.0	7.0	5.0	3.0	2.0	2.0
67.5°	1604.2	1215.2	45.0	16.0	12.0	9.0	6.0	4.0	2.0	1.0	1.0
70°	1252.2	938.1	33.0	16.0	12.0	9.0	6.0	4.0	2.0	1.0	1.0
72.5°	710.1	522.1	25.0	14.0	11.0	8.0	6.0	4.0	2.0	1.0	1.0
75°	253.0	168.0	19.0	13.0	10.0	7.0	6.0	4.0	2.0	1.0	1.0
77.5°	61.0	43.0	15.0	11.0	9.0	7.0	5.0	4.0	3.0	1.0	1.0
80°	25.0	18.0	12.0	9.0	7.0	6.0	5.0	4.0	2.0	1.0	1.0
82.5°	11.0	9.0	5.0	5.0	4.0	4.0	4.0	4.0	2.0	1.0	1.0
85°	5.0	4.0	2.0	2.0	1.0	1.0	1.0	2.0	2.0	1.0	1.0
87.5°	3.0	2.0	2.0	2.0	1.0	1.0	1.0	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)