

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: P573023

Luminaire Tested: **ARCH-S-PA2-20-827-U-T2R**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573023  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-20-827-U-T2R  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 2700K, 220mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2724 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

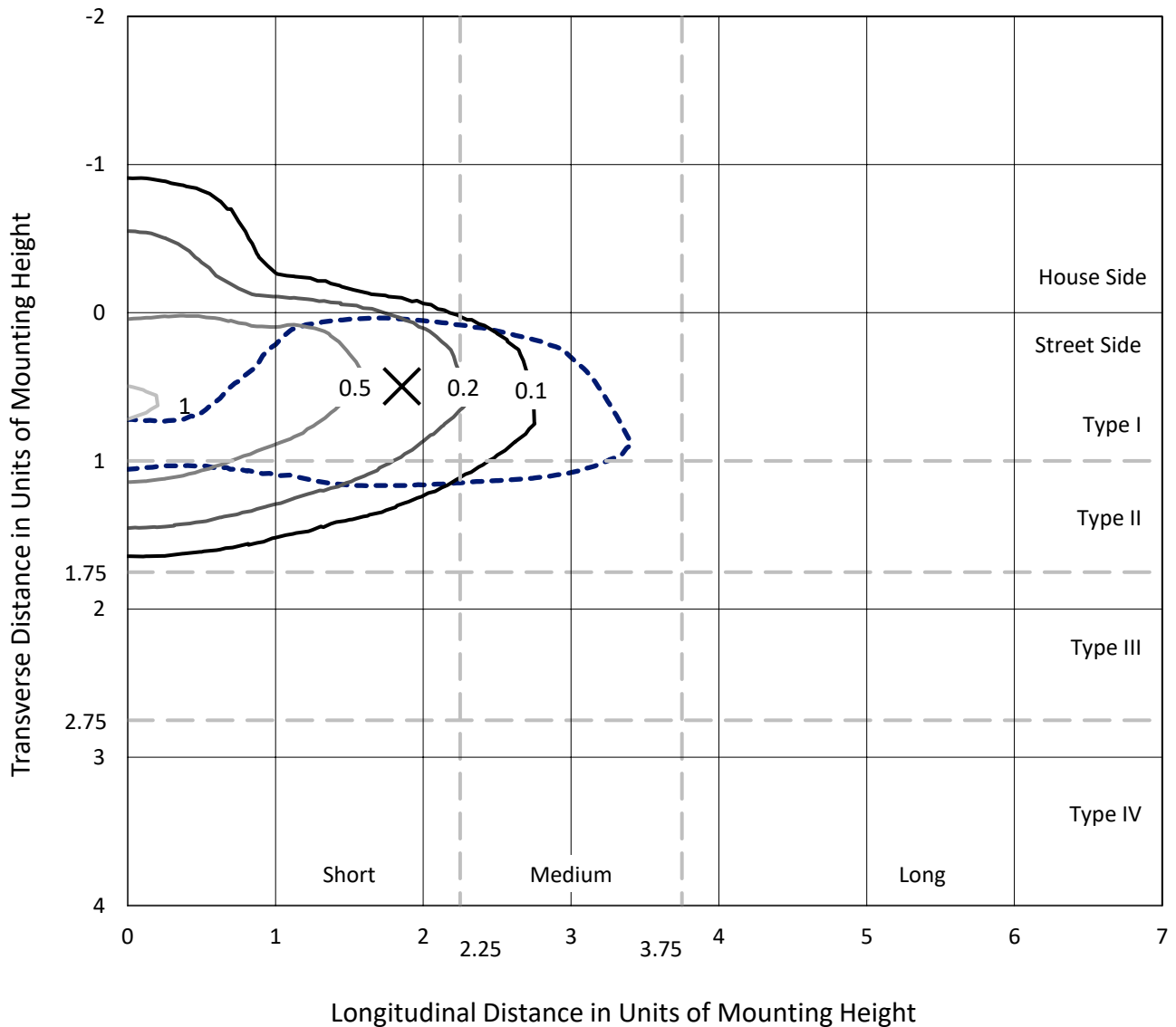
Input Watts (W): 23.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

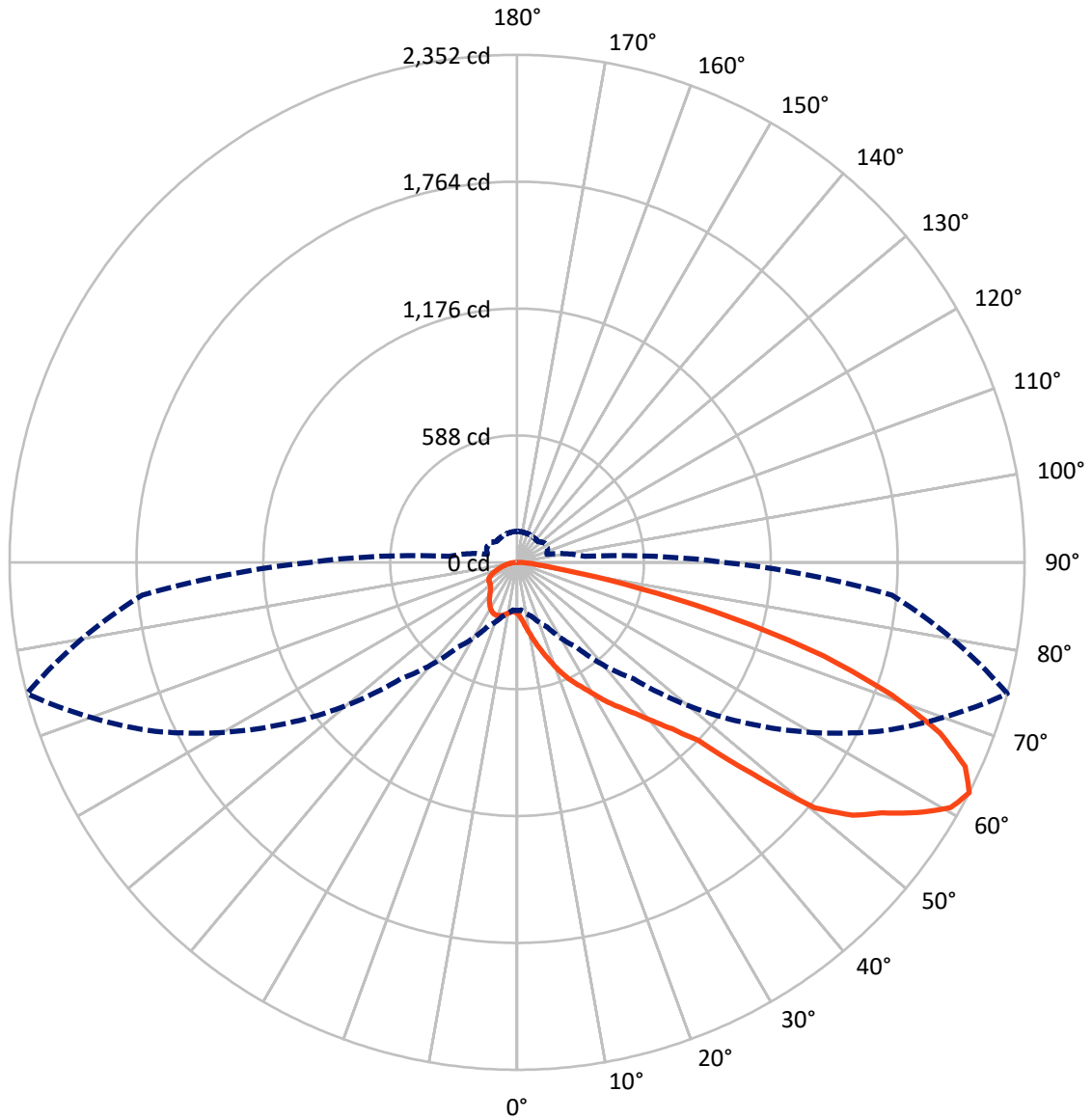
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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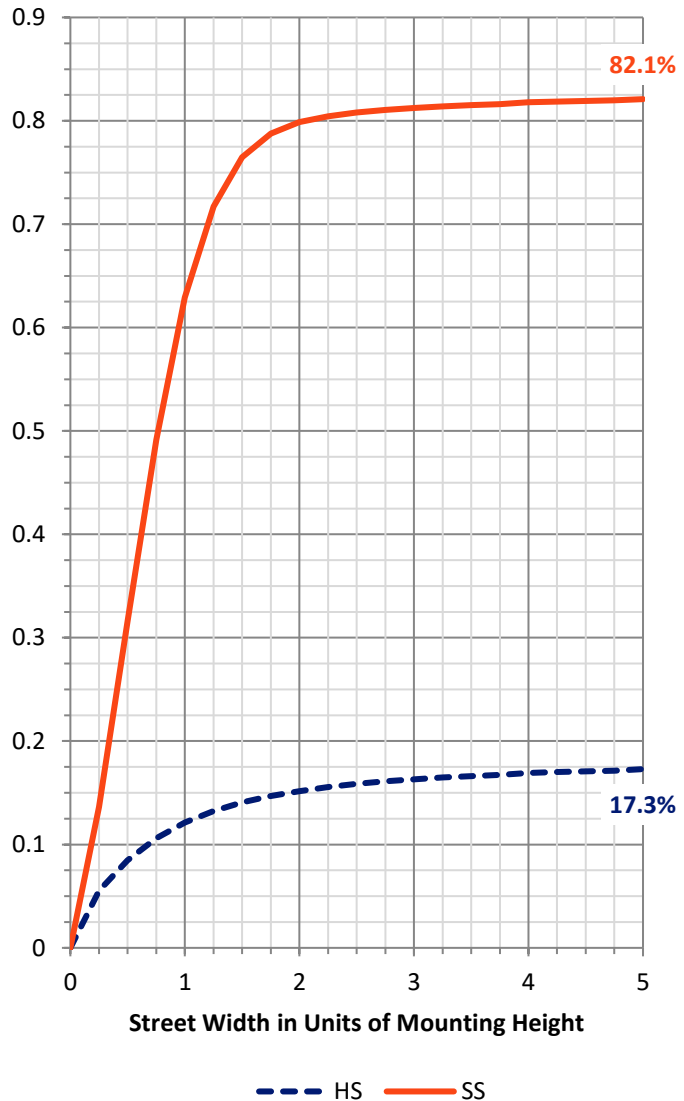
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	480.4	0.0	480.4
	% Fixture	17.6	0.0	17.6
<b>Street Side</b>	Lumens	2243.6	0.0	2243.6
	% Fixture	82.4	0.0	82.4
<b>Total</b>	Lumens	2724.0	0.0	2724.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.5	1.0
10°-20°	112.7	4.1
20°-30°	223.0	8.2
30°-40°	371.7	13.6
40°-50°	548.5	20.1
50°-60°	659.4	24.2
60°-70°	512.4	18.8
70°-80°	226.7	8.3
80°-90°	41.0	1.5
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°	2724.0	100.0
0°-180°	2724.0	100.0

**Coefficient of Utilization**

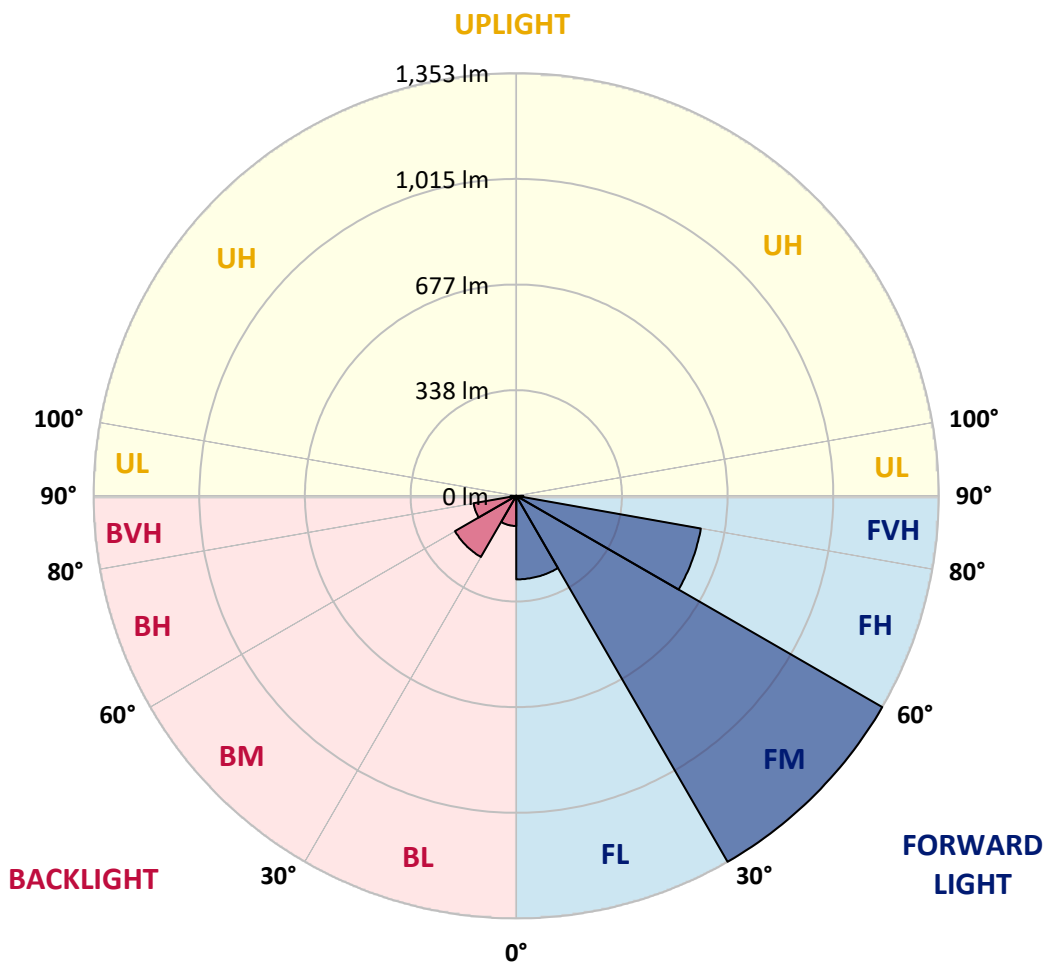


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	267.6	9.8			
FM (30°-60°)	1353.3	49.7			
FH (60°-80°)	600.1	22.0			G0/660
FVH (80°-90°)	22.6	0.8			G1/100
BL (0°-30°)	96.7	3.5	B0/110		
BM (30°-60°)	226.3	8.3	B1/1000		
BH (60°-80°)	139.0	5.1	B1/500		G1/500
BVH (80°-90°)	18.5	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	237.4	237.4	237.4	237.4	237.4	237.4	237.4	237.4	237.4	237.4	237.4
2.5°	303.6	294.8	294.8	285.2	286.0	277.9	269.1	260.2	250.7	243.3	239.6
5°	397.0	390.3	388.1	377.1	359.5	339.6	318.3	296.3	273.5	255.8	247.0
7.5°	484.4	479.3	476.4	463.9	439.6	418.3	384.5	344.0	305.1	272.0	258.8
10°	549.1	545.5	539.6	533.7	516.1	497.7	455.8	398.4	341.1	291.8	272.0
12.5°	596.2	591.0	591.0	590.3	578.5	561.6	522.7	460.9	383.0	313.9	286.7
15°	627.8	627.1	629.3	633.7	630.7	619.7	580.7	518.3	425.6	338.9	303.6
17.5°	651.3	648.4	652.8	664.5	673.4	669.0	636.6	573.4	472.7	366.1	322.0
20°	677.0	671.2	677.0	691.7	702.8	709.4	693.9	626.3	523.4	395.5	339.6
22.5°	726.3	725.6	722.6	727.0	734.4	746.1	737.3	680.0	572.7	424.9	360.2
25°	814.5	806.4	798.3	788.8	780.7	784.4	777.0	730.0	617.5	457.2	377.8
27.5°	913.0	904.2	889.5	866.0	843.9	830.7	815.2	773.3	660.9	486.6	394.8
30°	1003.4	1000.5	978.4	952.7	914.5	890.2	860.8	823.3	713.1	519.0	412.4
32.5°	1088.0	1082.1	1060.0	1032.8	988.0	960.8	920.4	877.7	772.6	558.7	430.8
35°	1160.7	1154.9	1129.1	1094.6	1055.6	1032.1	985.8	926.2	827.0	593.2	446.2
37.5°	1215.9	1209.3	1185.0	1151.2	1116.6	1105.6	1065.9	988.0	888.8	636.6	465.3
40°	1246.8	1238.7	1222.5	1199.0	1170.3	1165.2	1148.2	1064.4	966.7	689.5	493.3
42.5°	1250.4	1243.1	1234.3	1232.1	1229.8	1234.3	1242.3	1151.2	1055.6	760.1	534.4
45°	1218.1	1213.7	1214.4	1239.4	1274.0	1314.4	1362.9	1279.1	1175.4	894.6	627.1
47.5°	1149.0	1146.8	1163.0	1204.9	1282.0	1373.9	1511.4	1498.2	1459.2	1111.5	746.1
50°	1037.2	1033.6	1068.1	1134.3	1244.5	1393.8	1611.4	1756.2	1788.5	1279.8	824.1
52.5°	877.0	881.4	935.1	1025.5	1158.5	1372.5	1652.5	1862.0	1947.3	1404.1	883.6
55°	713.1	706.4	755.0	866.7	1031.4	1294.5	1660.6	1923.1	2050.2	1518.7	941.7
57.5°	519.7	535.9	587.4	688.8	867.4	1153.4	1613.6	1965.0	2188.4	1633.4	995.3
60°	352.1	352.1	397.7	499.1	670.4	982.1	1487.9	1949.5	2309.0	1723.1	1007.1
62.5°	224.2	222.0	258.8	330.8	480.0	763.0	1299.7	1852.5	2351.6	1744.4	957.9
65°	141.9	144.8	158.0	202.2	307.3	541.8	1043.1	1659.2	2281.8	1695.2	871.8
67.5°	113.9	114.7	121.3	139.7	188.9	347.7	773.3	1392.3	2114.9	1570.9	771.1
70°	100.7	102.2	103.7	110.3	129.4	219.8	508.0	1121.1	1841.5	1354.8	663.1
72.5°	91.9	93.4	94.8	96.3	106.6	143.3	299.9	849.8	1485.7	1040.9	505.8
75°	84.5	86.0	86.0	86.7	92.6	106.6	164.7	585.9	1034.3	647.6	315.4
77.5°	75.7	76.5	76.5	77.9	83.8	83.8	102.2	362.4	574.1	293.3	159.5
80°	64.0	65.4	65.4	67.6	73.5	64.7	68.4	185.2	238.2	120.6	71.3
82.5°	47.0	50.0	51.5	55.1	58.8	49.3	49.3	93.4	100.7	53.7	38.2
85°	25.7	26.5	38.2	41.2	43.4	29.4	33.1	46.3	50.0	23.5	19.1
87.5°	7.4	8.1	18.4	22.8	20.6	12.5	14.0	17.6	17.6	6.6	5.1
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	237.4	237.4	237.4	237.4	237.4	237.4	237.4	237.4	237.4	237.4
2.5°	236.7	230.8	225.7	222.0	218.3	216.1	215.4	213.9	213.9	214.7
5°	239.6	229.4	221.3	216.9	213.9	212.4	211.7	211.7	212.4	212.4
7.5°	247.0	231.6	224.2	220.5	217.6	216.1	216.1	215.4	216.1	216.1
10°	257.3	238.2	230.1	225.7	223.5	221.3	220.5	219.8	219.8	219.8
12.5°	268.3	245.5	236.7	231.6	227.9	224.9	223.5	222.0	221.3	221.3
15°	278.6	252.9	241.1	235.2	230.1	225.7	222.7	220.5	219.8	219.8
17.5°	289.6	258.0	244.1	236.0	229.4	223.5	219.8	216.9	215.4	215.4
20°	301.4	261.7	244.1	233.8	224.9	219.1	214.7	211.7	208.8	208.8
22.5°	311.0	263.2	241.1	228.6	219.8	212.4	208.0	204.4	202.2	202.2
25°	319.0	261.7	234.5	220.5	210.2	203.6	199.2	196.3	194.1	194.1
27.5°	324.2	255.8	226.4	211.7	202.2	195.5	192.6	189.7	188.2	188.2
30°	327.1	248.5	216.1	202.2	192.6	188.9	187.5	184.5	182.3	181.6
32.5°	328.6	237.4	205.8	192.6	186.0	184.5	184.5	180.8	177.9	177.2
35°	327.1	225.7	195.5	184.5	182.3	183.0	181.6	177.2	173.5	172.0
37.5°	324.9	211.7	184.5	178.6	180.8	182.3	177.9	172.0	166.1	164.7
40°	323.5	199.2	175.7	172.8	179.4	180.1	172.0	161.0	156.6	155.1
42.5°	330.8	186.7	167.6	168.3	175.7	176.4	161.7	156.6	153.6	152.9
45°	355.8	175.7	161.0	165.4	171.3	168.3	156.6	155.8	153.6	152.9
47.5°	374.9	167.6	158.0	163.2	167.6	157.3	155.8	155.1	152.9	152.2
50°	381.5	162.5	157.3	161.7	162.5	152.2	154.4	154.4	152.2	151.4
52.5°	382.3	159.5	158.8	161.0	154.4	150.0	152.9	152.9	150.7	150.0
55°	385.2	158.0	159.5	161.0	145.6	147.0	150.0	150.7	148.5	147.8
57.5°	379.3	155.8	161.0	161.7	141.9	144.1	147.0	147.0	147.0	147.0
60°	356.5	151.4	160.3	160.3	138.9	140.4	143.3	144.8	145.6	145.6
62.5°	314.6	142.6	155.8	155.8	136.0	137.5	141.1	141.1	143.3	143.3
65°	261.7	130.1	147.0	146.3	133.1	134.5	138.9	137.5	141.1	141.9
67.5°	218.3	114.7	133.8	135.3	130.1	133.8	136.7	131.6	138.9	138.9
70°	174.2	96.3	116.1	122.8	125.0	134.5	132.3	124.2	133.8	131.6
72.5°	135.3	81.6	95.6	107.3	119.1	133.8	122.8	113.9	119.8	116.1
75°	98.5	67.6	78.7	88.9	111.0	131.6	113.2	100.0	100.0	98.5
77.5°	69.1	55.1	63.2	70.6	102.9	125.7	101.4	86.0	82.3	81.6
80°	47.0	43.4	50.0	54.4	91.2	113.9	87.5	71.3	64.7	63.2
82.5°	30.9	30.9	33.8	36.8	70.6	94.8	68.4	52.9	68.4	65.4
85°	17.6	18.4	18.4	21.3	39.0	66.9	48.5	52.9	31.6	29.4
87.5°	5.9	5.9	5.9	5.9	8.1	27.2	20.6	19.1	7.4	6.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)