

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: P573035

Luminaire Tested: **ARCH-S-PA2-20-830-U-T3-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573035  
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-PA2-20-830-U-T3-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 3000K, 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: 2184 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G1

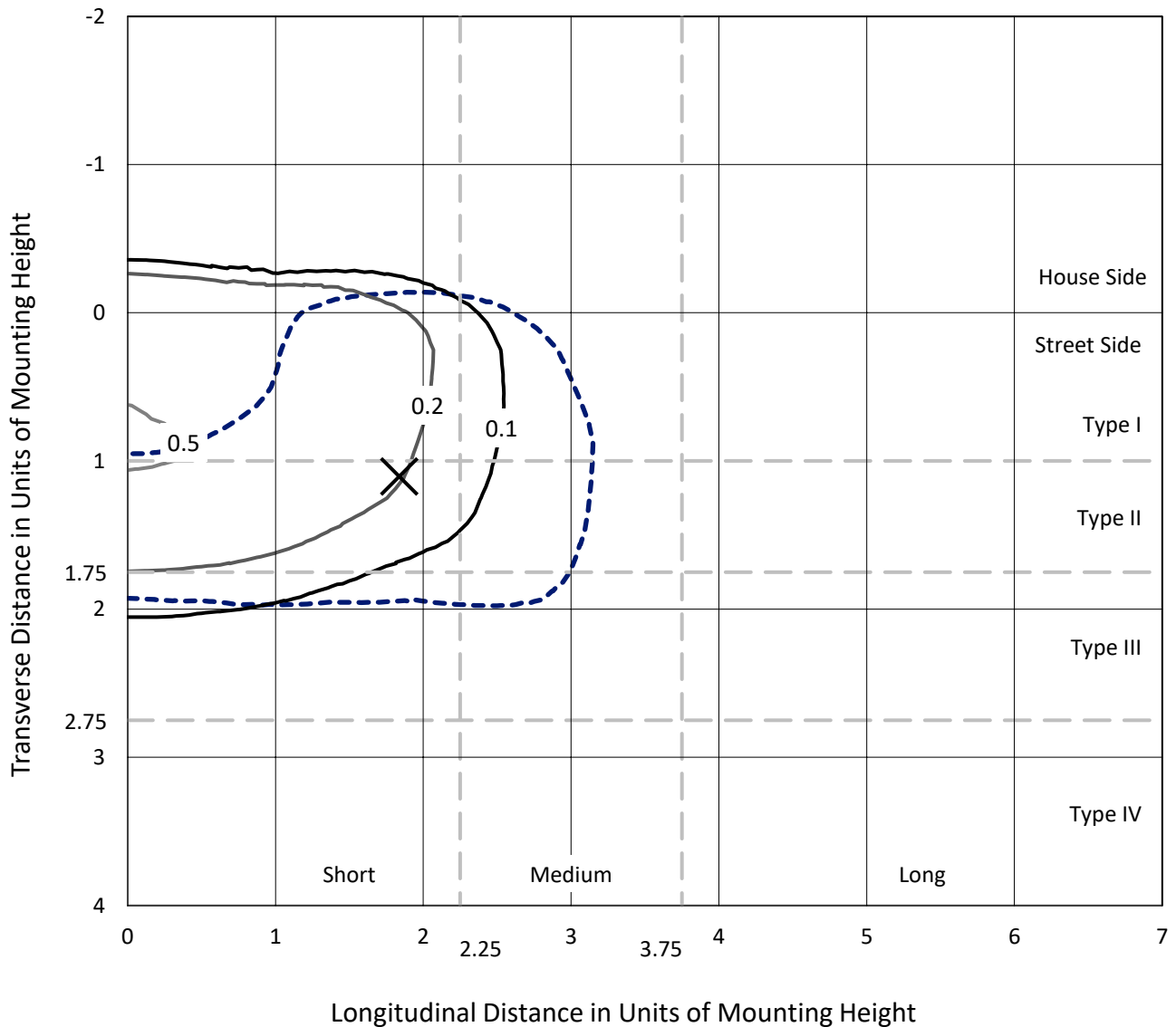
Input Watts (W): 23.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

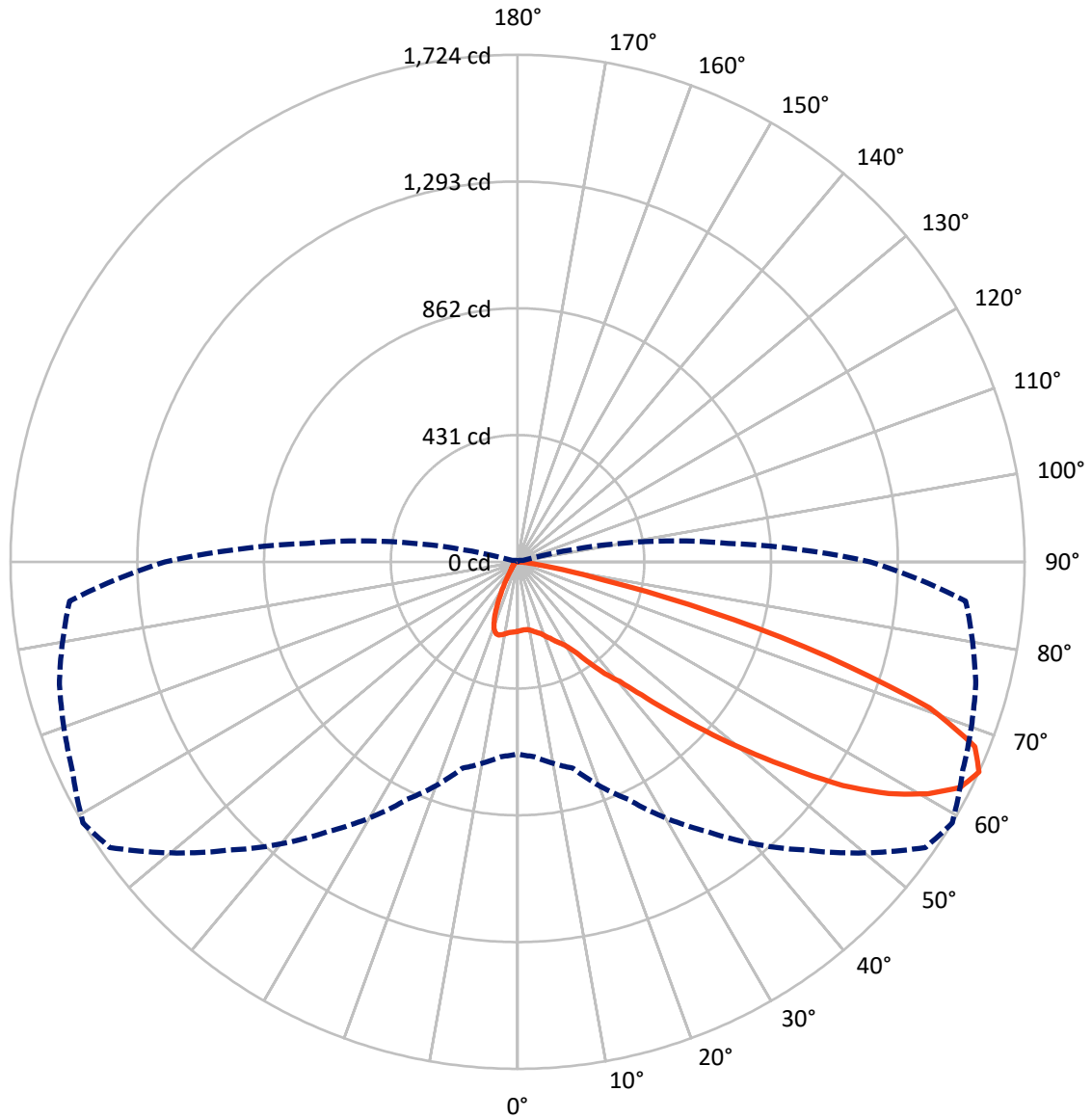
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 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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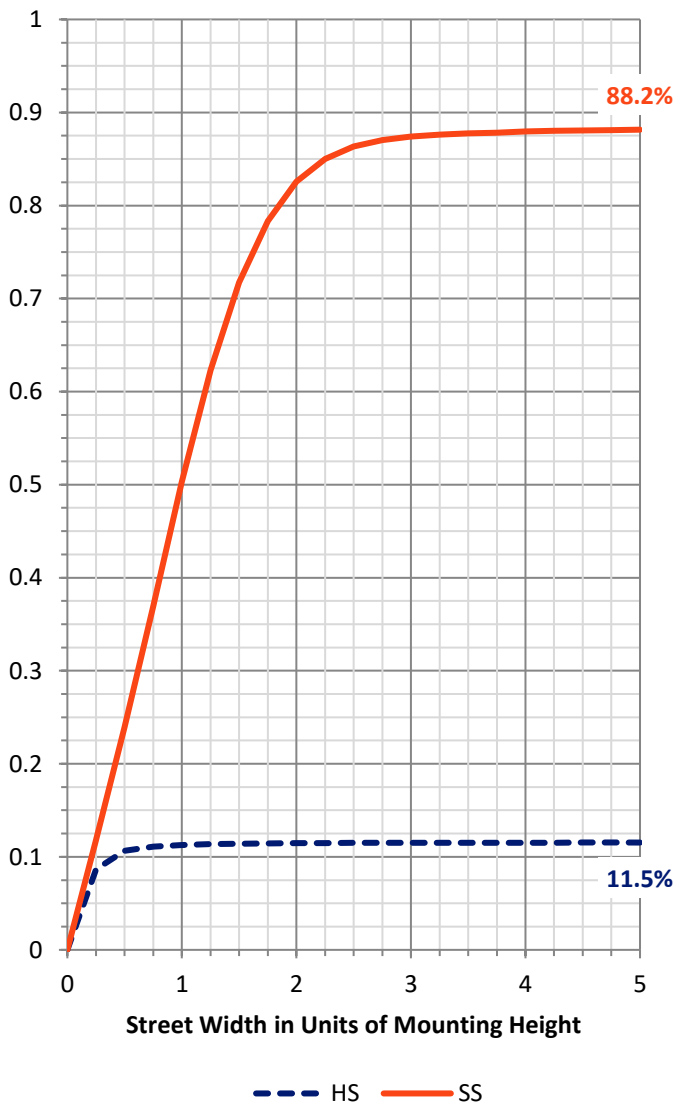
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	254.8	0.0	254.8
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	1929.2	0.0	1929.2
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	2184.0	0.0	2184.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.3	1.0
10°-20°	63.4	2.9
20°-30°	107.6	4.9
30°-40°	190.6	8.7
40°-50°	359.6	16.5
50°-60°	608.4	27.9
60°-70°	632.5	29.0
70°-80°	189.7	8.7
80°-90°	10.0	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°	2184.0	100.0
0°-180°	2184.0	100.0

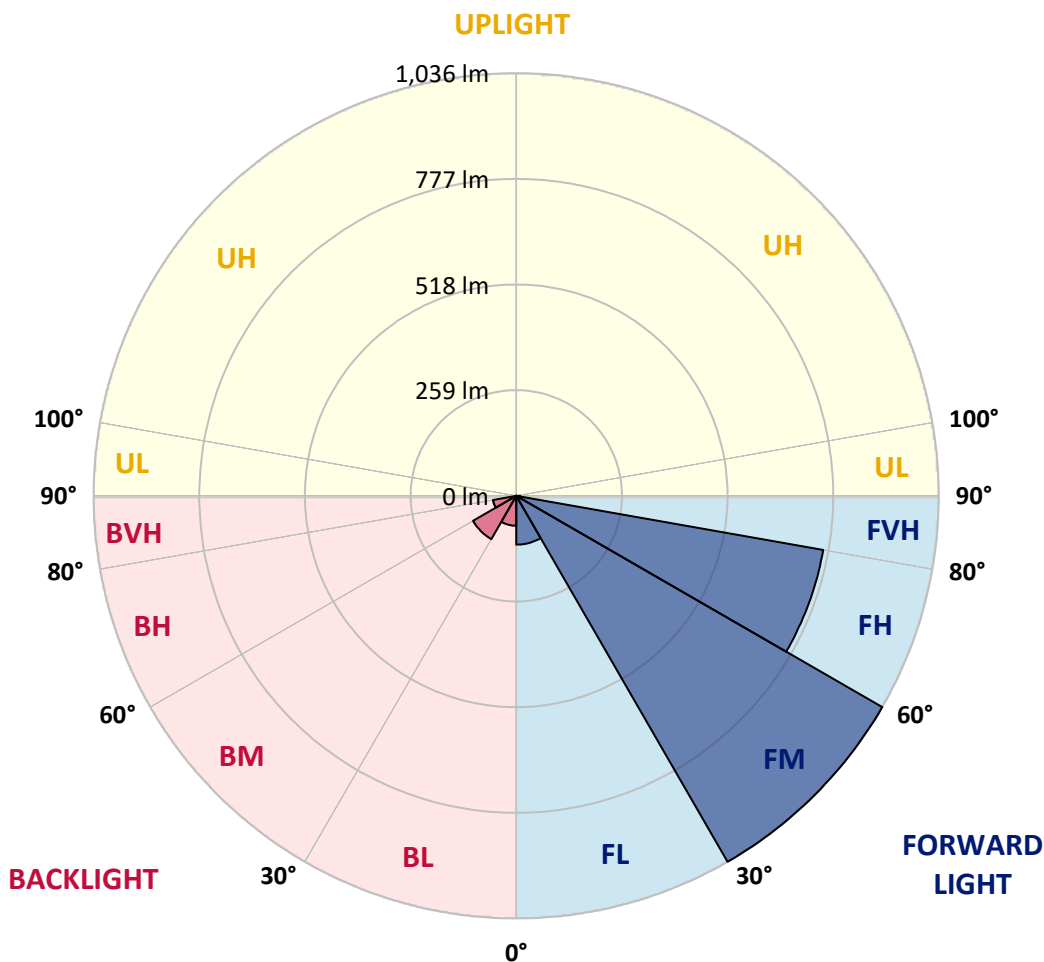


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	119.8	5.5			
FM (30°-60°)	1036.1	47.4			
FH (60°-80°)	764.2	35.0			G1/1800
FVH (80°-90°)	9.1	0.4			G0/10
BL (0°-30°)	73.5	3.4	B0/110		
BM (30°-60°)	122.5	5.6	B0/220		
BH (60°-80°)	58.0	2.7	B0/110		G0/110
BVH (80°-90°)	0.8	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°	236.0	236.0	236.0	236.0	236.0	236.0	236.0	236.0	236.0	236.0	236.0
2.5°	229.6	228.9	228.9	230.4	231.2	232.0	233.6	233.6	233.6	235.2	236.0
5°	218.5	218.5	219.3	220.9	224.1	226.5	231.2	232.0	232.8	236.8	238.4
7.5°	211.4	211.4	212.2	215.3	219.3	224.9	231.2	232.8	235.2	240.8	244.7
10°	210.6	209.8	211.4	214.5	219.3	226.5	233.6	236.0	240.8	247.9	253.5
12.5°	213.0	212.2	213.8	216.9	221.7	228.9	238.4	242.4	247.9	257.5	265.4
15°	214.5	213.8	215.3	219.3	224.9	233.6	244.7	249.5	256.7	270.2	278.1
17.5°	219.3	218.5	219.3	222.5	228.1	237.6	251.9	256.7	268.6	283.7	292.4
20°	240.8	240.0	235.2	233.6	234.4	243.2	261.4	269.4	283.7	302.8	309.1
22.5°	285.3	282.1	273.4	259.0	249.5	252.7	273.4	282.1	301.2	322.6	327.4
25°	344.9	342.5	329.8	305.1	278.1	270.2	286.9	298.8	321.8	345.7	344.1
27.5°	412.4	407.6	395.7	361.6	325.0	298.8	303.5	313.9	339.3	364.7	356.8
30°	471.2	469.6	456.1	427.5	384.6	345.7	329.0	334.5	357.6	384.6	375.1
32.5°	525.2	520.5	509.4	482.3	442.6	402.9	369.5	369.5	388.6	420.4	406.1
35°	584.8	581.7	568.2	541.1	503.0	456.1	425.9	422.7	438.6	474.4	443.4
37.5°	646.0	638.1	631.7	603.9	565.8	525.2	488.7	481.5	489.5	515.7	477.6
40°	722.3	722.3	708.0	682.6	646.8	603.9	553.1	534.8	532.4	566.6	537.2
42.5°	811.3	808.9	797.0	773.2	739.0	699.3	634.9	618.2	616.6	657.9	623.0
45°	913.8	912.2	897.9	878.1	854.2	810.5	746.9	730.3	720.7	768.4	727.1
47.5°	1007.6	1002.0	997.3	999.6	986.1	936.9	877.3	857.4	856.6	894.0	840.7
50°	1071.9	1068.8	1085.5	1101.3	1126.8	1095.8	1025.1	1007.6	994.1	1043.3	959.1
52.5°	1114.1	1112.5	1145.8	1191.1	1243.6	1241.2	1178.4	1168.1	1157.0	1170.5	1064.8
55°	1130.7	1130.7	1170.5	1253.9	1346.1	1385.8	1356.4	1342.1	1303.2	1275.4	1180.8
57.5°	1110.9	1108.5	1160.1	1269.0	1409.7	1491.5	1504.2	1487.5	1426.3	1395.4	1309.5
60°	1026.7	1028.2	1089.4	1226.9	1404.9	1534.4	1616.3	1601.2	1540.0	1493.9	1417.6
62.5°	869.3	882.8	947.2	1096.6	1303.2	1500.2	1680.6	1688.6	1622.6	1565.4	1513.8
65°	653.2	665.1	726.3	891.6	1118.0	1385.8	1692.5	1723.5	1670.3	1612.3	1528.9
67.5°	397.3	401.3	476.0	600.7	823.2	1154.6	1609.1	1676.7	1638.5	1543.2	1379.5
70°	185.1	195.5	232.0	328.2	521.3	850.2	1390.6	1485.9	1443.0	1324.6	1048.9
72.5°	72.3	75.5	98.5	151.8	276.5	534.8	1037.8	1101.3	1071.9	940.8	625.4
75°	35.8	38.1	47.7	72.3	126.3	220.9	634.1	675.4	627.0	472.8	264.6
77.5°	26.2	26.2	31.8	44.5	69.1	81.8	267.0	299.6	282.9	182.8	72.3
80°	17.5	19.1	22.2	30.2	43.7	39.7	100.9	120.0	100.1	56.4	25.4
82.5°	10.3	11.1	16.7	21.5	29.4	23.0	34.2	38.1	41.3	27.8	11.9
85°	5.6	5.6	11.1	15.9	15.9	10.3	11.9	13.5	15.9	16.7	6.4
87.5°	1.6	1.6	7.2	9.5	6.4	5.6	6.4	6.4	7.2	8.7	3.2
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°	236.0	236.0	236.0	236.0	236.0	236.0	236.0	236.0	236.0	236.0	236.0
2.5°	236.8	236.8	237.6	237.6	238.4	238.4	238.4	238.4	239.2	240.0	240.0
5°	239.2	240.0	240.0	240.0	240.0	238.4	237.6	236.8	236.8	237.6	237.6
7.5°	245.5	246.3	245.5	243.9	241.6	238.4	235.2	235.2	234.4	235.2	234.4
10°	255.1	255.1	254.3	250.3	246.3	240.0	233.6	228.9	225.7	224.9	223.3
12.5°	267.0	267.0	264.6	257.5	250.3	238.4	221.7	205.8	193.1	187.5	185.9
15°	278.9	278.9	275.7	265.4	251.1	222.5	187.5	154.2	135.1	127.1	122.4
17.5°	293.2	291.6	286.1	271.8	242.4	190.7	134.3	100.1	85.0	77.9	77.9
20°	308.3	306.7	296.4	272.6	220.1	136.7	87.4	69.1	65.2	63.6	63.6
22.5°	325.0	321.0	305.1	266.2	173.2	93.0	66.0	61.2	59.6	58.8	58.8
25°	338.5	332.2	311.5	248.7	124.0	65.2	58.0	56.4	53.2	52.4	50.9
27.5°	348.8	339.3	313.9	211.4	81.8	54.0	51.7	48.5	45.3	42.1	42.1
30°	362.3	350.4	315.5	164.5	55.6	46.9	44.5	40.5	36.6	33.4	33.4
32.5°	389.4	371.9	316.3	115.2	46.1	41.3	36.6	31.8	27.8	26.2	25.4
35°	418.8	394.9	307.5	74.7	40.5	35.0	29.4	25.4	21.5	20.7	20.7
37.5°	451.3	429.1	288.4	50.9	35.8	29.4	23.8	19.9	17.5	16.7	16.7
40°	506.2	480.0	256.7	40.5	31.0	24.6	19.9	16.7	15.1	14.3	14.3
42.5°	584.8	539.5	216.9	35.0	27.0	20.7	15.9	13.5	12.7	11.9	11.9
45°	675.4	606.3	170.8	31.8	23.8	17.5	13.5	11.9	11.1	10.3	10.3
47.5°	779.5	675.4	135.1	27.8	20.7	15.1	11.9	10.3	9.5	8.7	8.7
50°	878.1	729.5	101.7	24.6	18.3	12.7	10.3	9.5	8.7	7.9	7.9
52.5°	959.1	766.0	77.1	21.5	15.9	11.1	9.5	8.7	7.2	7.2	7.2
55°	1056.8	794.6	58.8	19.1	14.3	10.3	8.7	7.2	6.4	5.6	5.6
57.5°	1141.9	805.0	42.9	16.7	12.7	9.5	7.9	6.4	4.8	4.0	4.0
60°	1199.1	796.2	31.0	14.3	11.1	7.9	6.4	4.8	3.2	2.4	2.4
62.5°	1239.6	777.1	23.8	12.7	9.5	7.2	5.6	4.0	2.4	1.6	1.6
65°	1199.1	718.3	19.1	11.1	7.9	6.4	4.0	3.2	1.6	0.8	0.8
67.5°	1037.0	602.3	15.1	9.5	7.2	5.6	4.0	2.4	0.8	0.0	0.0
70°	745.4	429.9	12.7	8.7	6.4	4.8	3.2	1.6	0.8	0.0	0.0
72.5°	415.6	221.7	11.9	7.9	6.4	4.8	3.2	1.6	0.8	0.0	0.0
75°	168.5	76.3	11.1	7.9	6.4	4.0	3.2	1.6	0.8	0.0	0.0
77.5°	49.3	26.2	9.5	7.2	6.4	4.8	3.2	1.6	0.8	0.0	0.0
80°	17.5	11.9	7.2	6.4	4.8	4.0	3.2	2.4	0.8	0.0	0.0
82.5°	7.9	4.8	3.2	2.4	2.4	2.4	2.4	1.6	0.8	0.0	0.0
85°	3.2	2.4	1.6	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0
87.5°	2.4	1.6	0.8	0.8	0.8	0.8	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)