

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: P573051

Luminaire Tested: **ARCH-S-PA2-30-727-U-T2U-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573051  
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-PA2-30-727-U-T2U-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 320mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

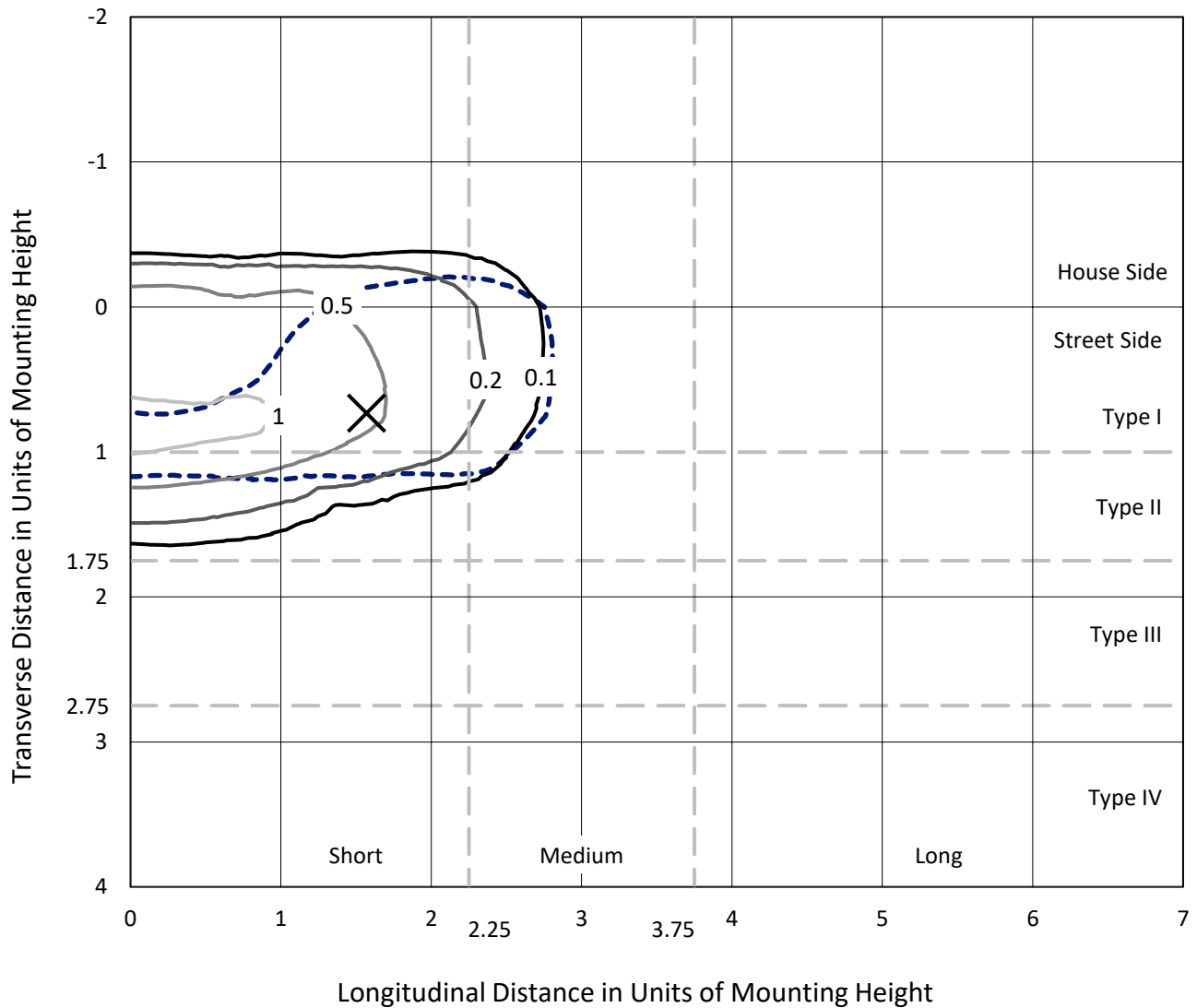
Lumens per Lamp: N/A  
Luminaire Lumens: 3014 lumens  
Efficiency: N/A  
Efficacy: 90.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 33.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

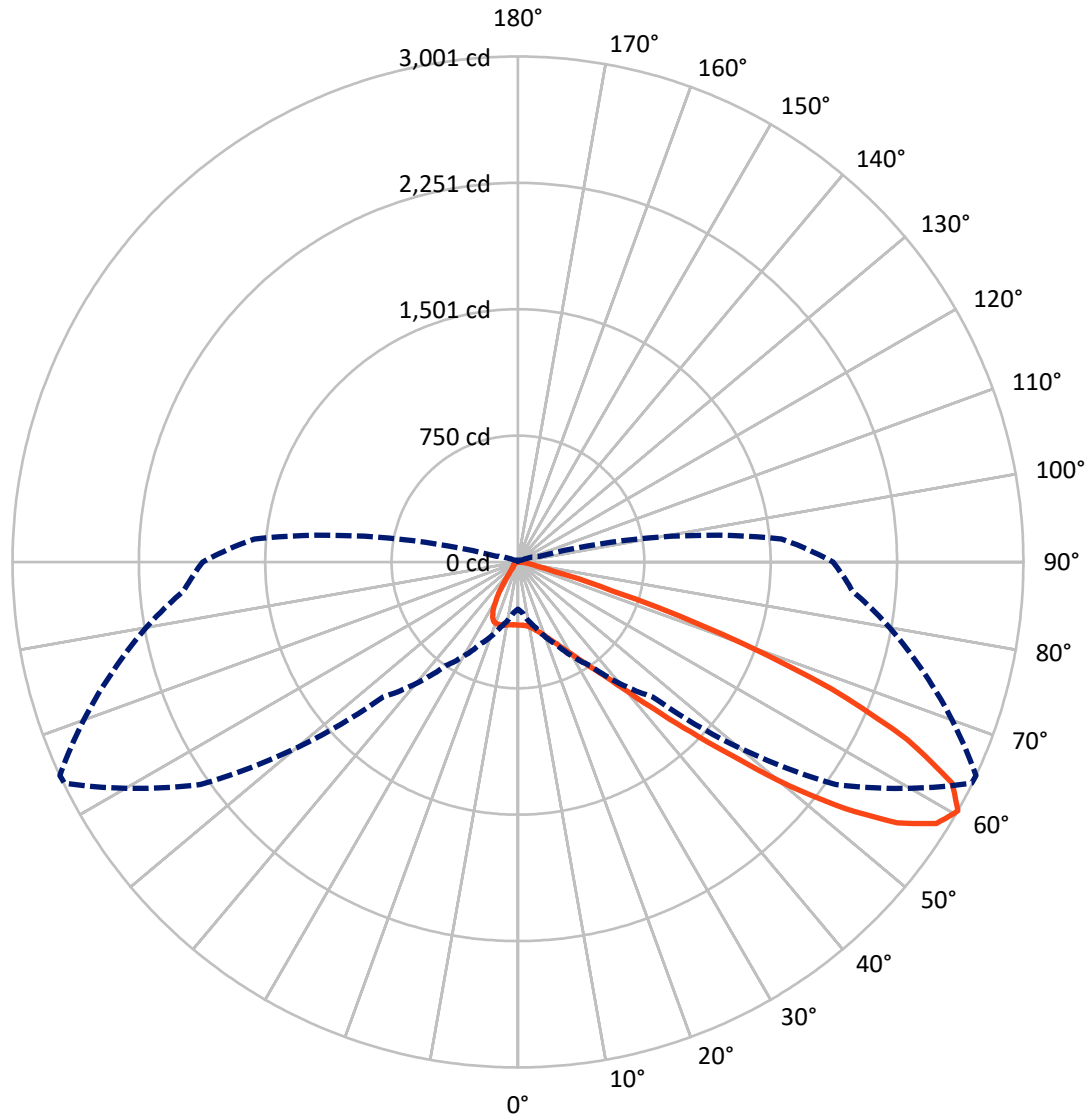
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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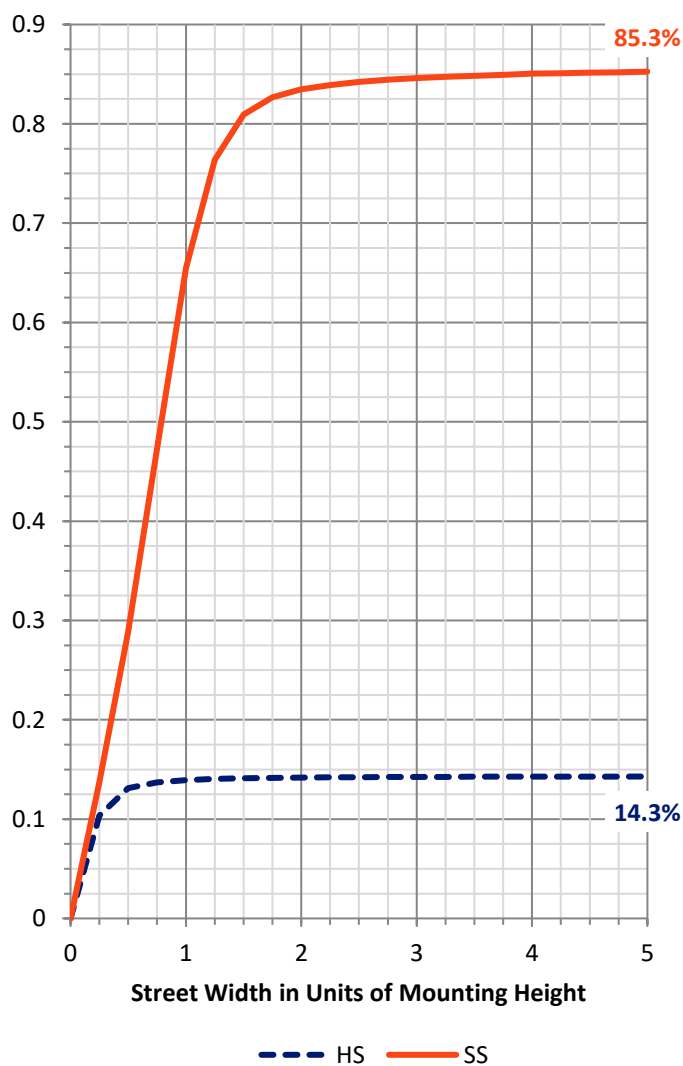
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	436.4	0.0	436.4
	% Fixture	14.5	0.0	14.5
<b>Street Side</b>	Lumens	2577.7	0.0	2577.7
	% Fixture	85.5	0.0	85.5
<b>Total</b>	Lumens	3014.0	0.0	3014.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.5	1.2
10°-20°	100.7	3.3
20°-30°	171.0	5.7
30°-40°	352.9	11.7
40°-50°	709.7	23.5
50°-60°	868.4	28.8
60°-70°	614.4	20.4
70°-80°	148.1	4.9
80°-90°	13.4	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°	3014.0	100.0
0°-180°	3014.0	100.0

**Coefficient of Utilization**

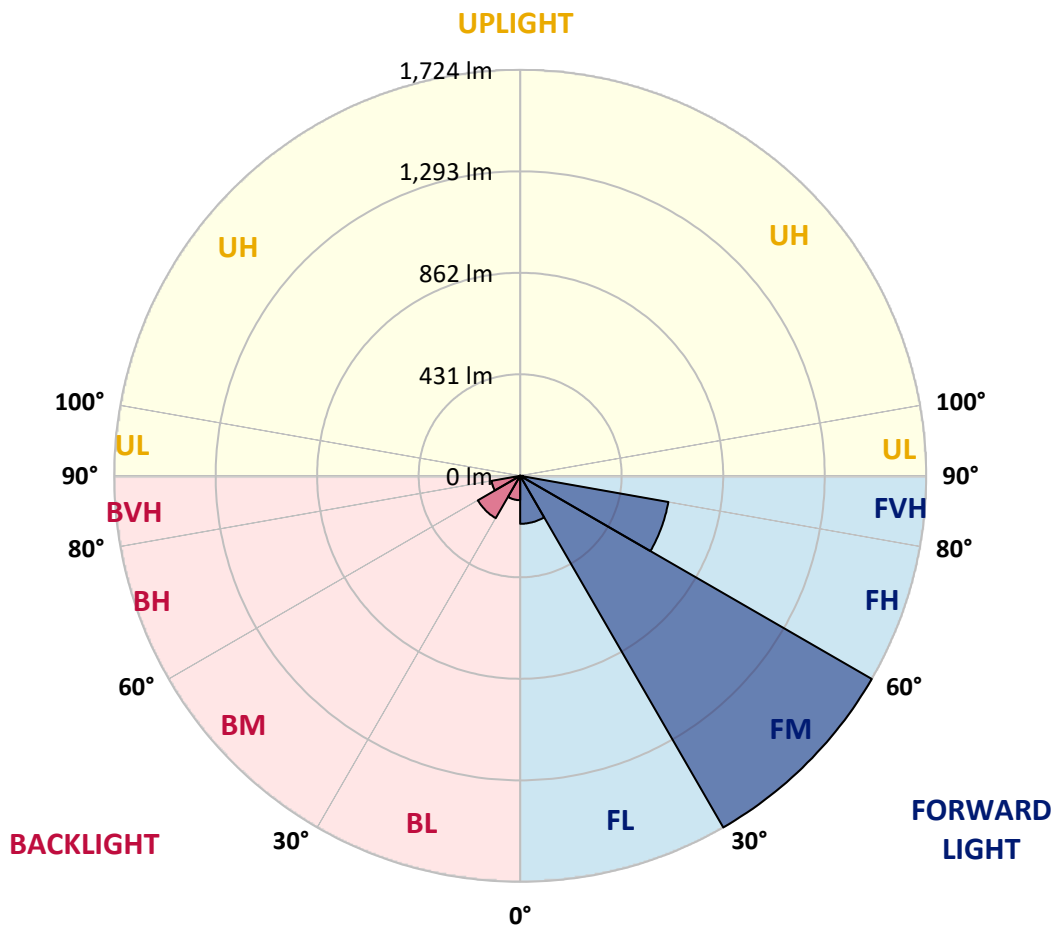


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	203.7	6.8			
FM (30°-60°)	1723.5	57.2			
FH (60°-80°)	638.7	21.2			G0/660
FVH (80°-90°)	11.6	0.4			G1/100
BL (0°-30°)	103.4	3.4	B0/110		
BM (30°-60°)	207.5	6.9	B0/220		
BH (60°-80°)	123.7	4.1	B1/500		G1/500
BVH (80°-90°)	1.7	0.1			G0/10
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°	64°	65°	75°	85°
0°	375.5	375.5	375.5	375.5	375.5	375.5	375.5	375.5	375.5	375.5	375.5
2.5°	376.7	375.5	375.5	375.5	376.7	376.7	377.8	375.5	375.5	375.5	375.5
5°	374.3	373.1	373.1	374.3	375.5	375.5	377.8	377.8	377.8	379.0	379.0
7.5°	379.0	376.7	376.7	377.8	379.0	379.0	381.4	382.6	382.6	385.0	386.2
10°	385.0	383.8	383.8	386.2	388.5	388.5	392.1	392.1	392.1	394.5	395.7
12.5°	393.3	392.1	392.1	395.7	399.2	401.6	404.0	405.2	406.4	406.4	406.4
15°	405.2	404.0	404.0	407.6	412.3	418.2	421.8	421.8	424.2	423.0	418.2
17.5°	421.8	420.6	421.8	424.2	430.1	436.1	443.2	444.4	443.2	440.8	433.7
20°	449.1	445.6	447.9	453.9	453.9	457.5	467.0	470.5	471.7	464.6	451.5
22.5°	477.7	477.7	480.0	487.2	482.4	487.2	495.5	501.4	503.8	497.9	476.5
25°	531.1	533.5	529.9	527.6	515.7	518.1	528.7	540.6	540.6	535.9	505.0
27.5°	648.8	646.4	621.4	587.0	556.1	558.5	569.1	584.6	585.8	575.1	533.5
30°	817.5	819.9	771.1	692.7	625.0	607.2	619.0	636.9	639.2	621.4	570.3
32.5°	1081.3	1061.1	970.8	866.2	739.1	674.9	679.6	698.7	705.8	690.3	628.6
35°	1422.3	1374.7	1239.3	1109.8	925.6	796.1	759.3	779.5	783.0	774.7	701.0
37.5°	1625.4	1587.4	1499.5	1381.9	1165.6	957.7	863.8	884.0	880.5	863.8	773.5
40°	1751.4	1730.0	1682.5	1627.8	1490.0	1212.0	1036.1	1019.5	1020.7	996.9	891.1
42.5°	1822.7	1803.7	1785.9	1800.1	1759.7	1673.0	1285.6	1209.6	1202.5	1157.3	1027.8
45°	1826.3	1797.7	1819.1	1902.3	1966.5	2081.7	1611.2	1435.3	1438.9	1364.0	1197.7
47.5°	1689.6	1667.0	1728.8	1891.6	2104.3	2349.1	1990.2	1744.3	1727.6	1580.3	1370.0
50°	1419.9	1418.7	1500.7	1731.2	2104.3	2486.9	2396.6	2106.7	2088.8	1806.1	1526.8
52.5°	1124.0	1146.6	1202.5	1421.1	1910.6	2473.8	2696.0	2480.9	2431.0	2006.9	1657.5
55°	874.5	866.2	933.9	1084.8	1514.9	2248.1	2793.4	2775.6	2734.0	2185.1	1772.8
57.5°	537.1	568.0	659.4	793.7	1102.6	1768.0	2653.2	2955.0	2930.1	2351.4	1892.8
60°	279.2	303.0	401.6	541.8	753.3	1133.5	2302.7	2996.6	3001.4	2485.7	1995.0
62.5°	175.9	174.7	219.8	380.2	484.8	636.9	1788.2	2849.3	2894.4	2589.1	2092.4
65°	131.9	133.1	150.9	251.9	329.1	332.7	1061.1	2464.3	2539.2	2616.4	2125.7
67.5°	122.4	123.6	131.9	165.2	247.1	222.2	467.0	1899.9	2004.5	2364.5	1997.4
70°	109.3	110.5	123.6	136.6	186.5	162.8	210.3	1144.2	1289.2	1715.8	1598.1
72.5°	85.5	87.9	103.4	129.5	139.0	123.6	146.1	506.2	590.5	943.4	914.9
75°	63.0	64.2	78.4	99.8	122.4	87.9	112.9	200.8	219.8	354.1	301.8
77.5°	44.0	44.0	54.7	74.9	102.2	61.8	80.8	108.1	110.5	131.9	86.7
80°	27.3	28.5	34.5	51.1	63.0	59.4	49.9	72.5	72.5	68.9	35.6
82.5°	15.4	16.6	23.8	34.5	42.8	40.4	32.1	41.6	42.8	44.0	20.2
85°	7.1	8.3	14.3	21.4	25.0	19.0	19.0	21.4	21.4	28.5	11.9
87.5°	1.2	1.2	7.1	9.5	8.3	9.5	9.5	11.9	11.9	14.3	5.9
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°	375.5	375.5	375.5	375.5	375.5	375.5	375.5	375.5	375.5	375.5	375.5
2.5°	374.3	374.3	374.3	373.1	373.1	371.9	369.5	369.5	369.5	369.5	370.7
5°	379.0	377.8	376.7	373.1	370.7	366.0	361.2	360.0	356.5	356.5	357.6
7.5°	385.0	385.0	381.4	375.5	369.5	361.2	352.9	347.0	341.0	339.8	338.6
10°	395.7	393.3	389.7	379.0	369.5	356.5	343.4	327.9	316.1	310.1	307.7
12.5°	404.0	402.8	395.7	383.8	368.3	348.1	318.4	282.8	254.3	238.8	238.8
15°	415.9	413.5	402.8	386.2	364.8	317.2	256.6	202.0	171.1	154.5	152.1
17.5°	427.7	423.0	409.9	387.4	349.3	261.4	179.4	129.5	108.1	99.8	97.4
20°	442.0	433.7	414.7	388.5	311.3	190.1	116.4	86.7	78.4	74.9	76.0
22.5°	461.0	446.8	419.4	381.4	254.3	123.6	82.0	70.1	65.4	61.8	61.8
25°	484.8	464.6	427.7	361.2	184.2	83.2	65.4	58.2	53.5	51.1	49.9
27.5°	506.2	481.2	436.1	325.6	117.6	65.4	54.7	48.7	44.0	42.8	41.6
30°	534.7	500.2	444.4	268.5	77.2	53.5	46.3	40.4	36.8	35.6	35.6
32.5°	583.4	537.1	459.8	204.4	58.2	46.3	39.2	34.5	32.1	30.9	30.9
35°	640.4	582.2	472.9	142.6	49.9	39.2	33.3	29.7	28.5	27.3	27.3
37.5°	699.8	635.7	475.3	90.3	44.0	34.5	29.7	27.3	25.0	25.0	25.0
40°	806.8	729.6	464.6	60.6	38.0	30.9	26.1	25.0	22.6	22.6	22.6
42.5°	931.5	843.6	437.3	48.7	34.5	27.3	25.0	22.6	20.2	20.2	19.0
45°	1093.1	973.1	390.9	42.8	30.9	25.0	22.6	20.2	19.0	17.8	17.8
47.5°	1245.2	1120.5	347.0	38.0	28.5	23.8	20.2	17.8	16.6	16.6	16.6
50°	1390.2	1233.3	295.9	35.6	26.1	22.6	19.0	16.6	15.4	14.3	14.3
52.5°	1494.7	1322.5	248.3	32.1	23.8	20.2	17.8	15.4	13.1	11.9	11.9
55°	1611.2	1412.8	205.6	28.5	22.6	19.0	15.4	13.1	10.7	9.5	9.5
57.5°	1741.9	1500.7	166.3	26.1	21.4	16.6	13.1	10.7	8.3	7.1	7.1
60°	1871.4	1570.8	133.1	23.8	19.0	15.4	11.9	8.3	5.9	4.8	4.8
62.5°	2000.9	1618.3	102.2	21.4	17.8	13.1	9.5	5.9	3.6	2.4	2.4
65°	2054.4	1605.2	76.0	19.0	15.4	10.7	8.3	5.9	3.6	2.4	2.4
67.5°	1905.9	1443.7	53.5	19.0	14.3	10.7	7.1	4.8	2.4	1.2	1.2
70°	1487.6	1114.5	39.2	19.0	14.3	10.7	7.1	4.8	2.4	1.2	1.2
72.5°	843.6	620.2	29.7	16.6	13.1	9.5	7.1	4.8	2.4	1.2	1.2
75°	300.6	199.6	22.6	15.4	11.9	8.3	7.1	4.8	2.4	1.2	1.2
77.5°	72.5	51.1	17.8	13.1	10.7	8.3	5.9	4.8	3.6	1.2	1.2
80°	29.7	21.4	14.3	10.7	8.3	7.1	5.9	4.8	2.4	1.2	1.2
82.5°	13.1	10.7	5.9	5.9	4.8	4.8	4.8	4.8	2.4	1.2	1.2
85°	5.9	4.8	2.4	2.4	1.2	1.2	1.2	2.4	2.4	1.2	1.2
87.5°	3.6	2.4	2.4	2.4	1.2	1.2	1.2	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)