

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: P573064

Luminaire Tested: **ARCH-S-PA2-30-730-U-T4W-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573064  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-30-730-U-T4W-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 320mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3503 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G1

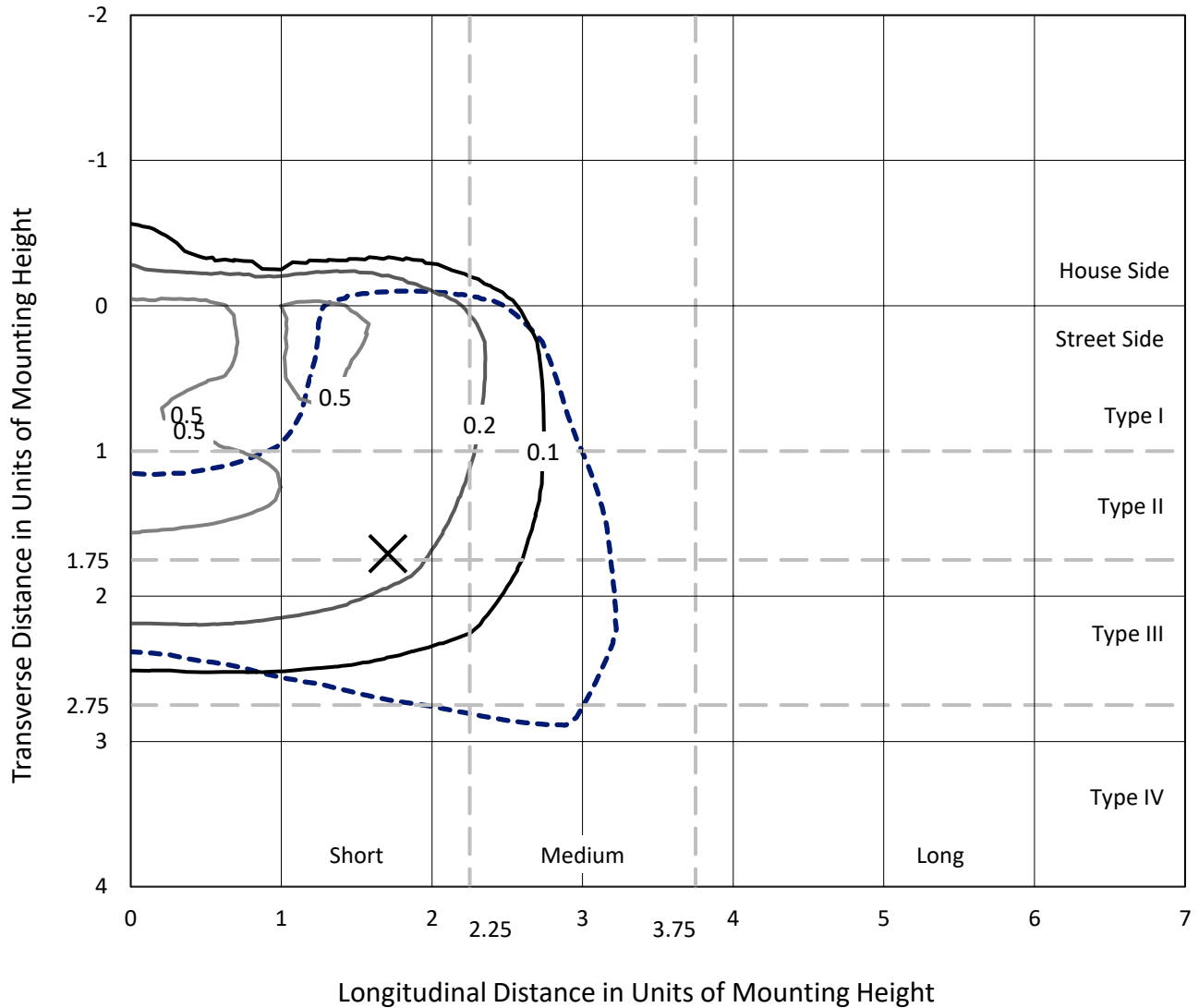
Input Watts (W): 33.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

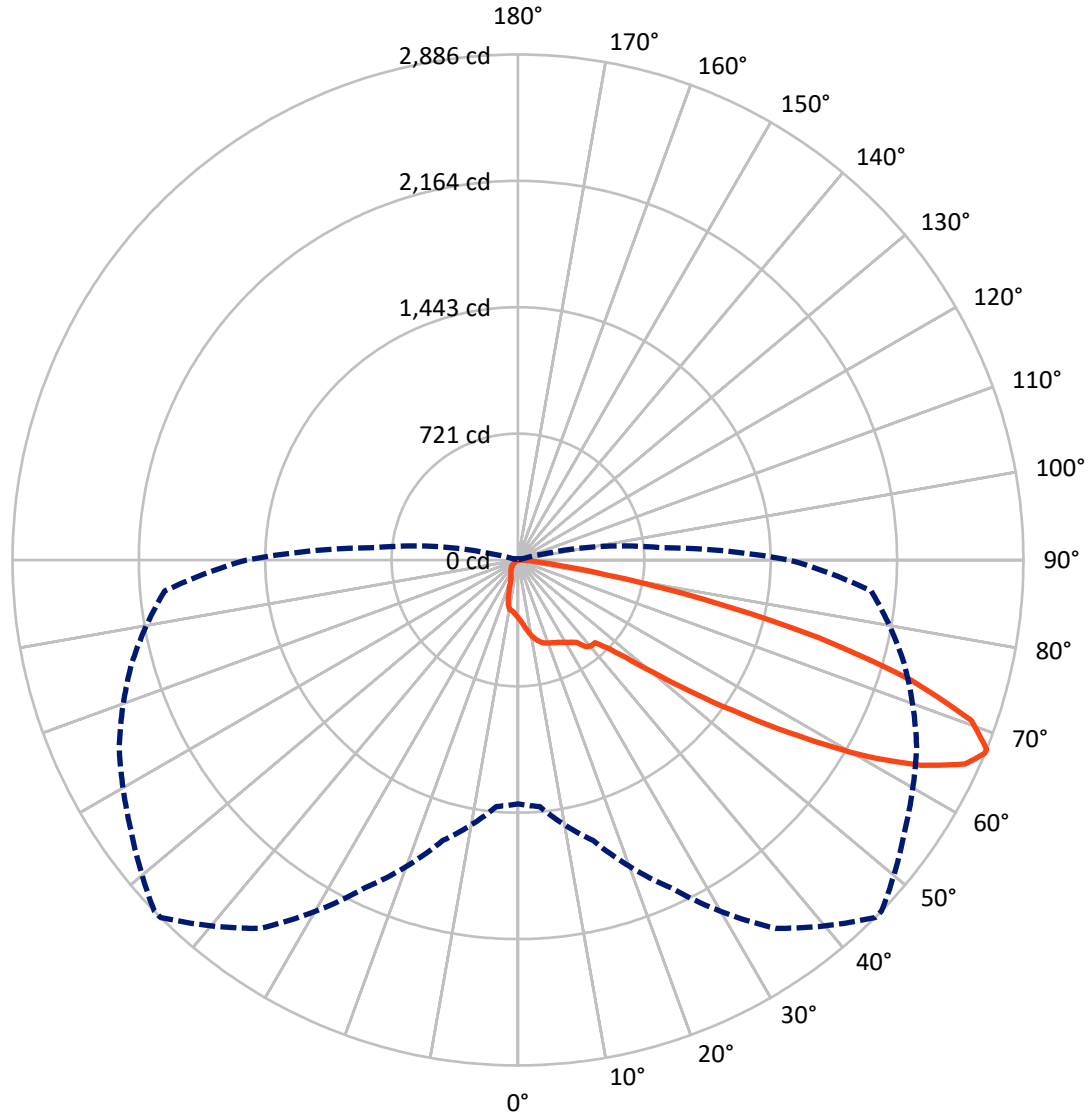
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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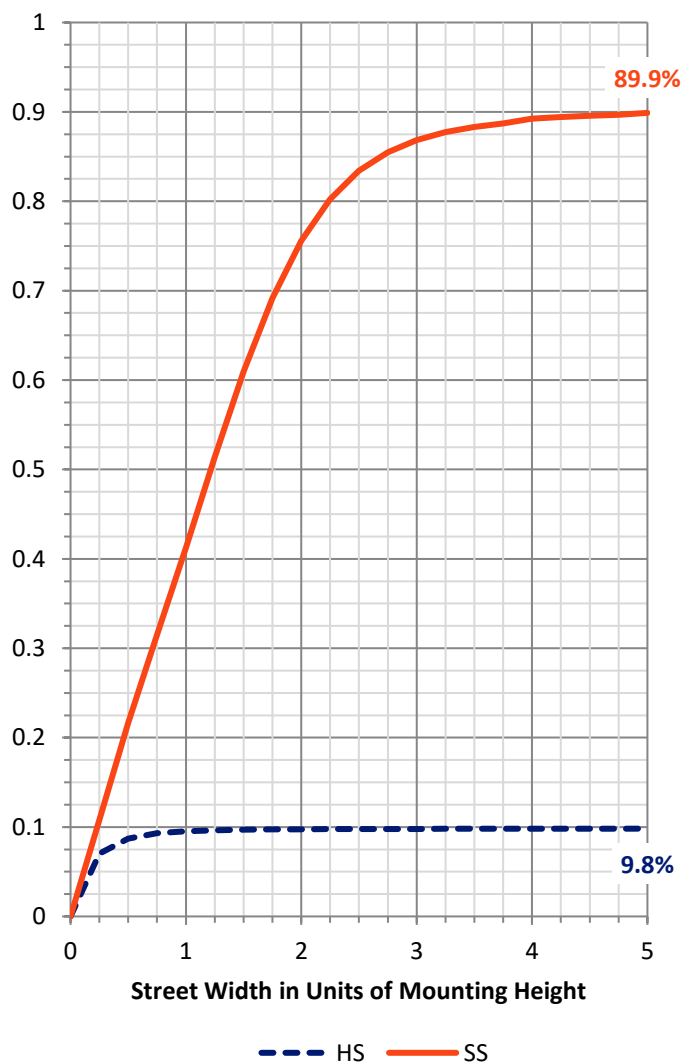
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	347.1	0.0	347.1
	% Fixture	9.9	0.0	9.9
<b>Street Side</b>	Lumens	3155.9	0.0	3155.9
	% Fixture	90.1	0.0	90.1
<b>Total</b>	Lumens	3503.0	0.0	3503.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.2	0.9
10°-20°	100.5	2.9
20°-30°	160.8	4.6
30°-40°	231.4	6.6
40°-50°	406.0	11.6
50°-60°	855.4	24.4
60°-70°	1182.9	33.8
70°-80°	495.2	14.1
80°-90°	37.5	1.1
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°	3503.0	100.0
0°-180°	3503.0	100.0

**Coefficient of Utilization**



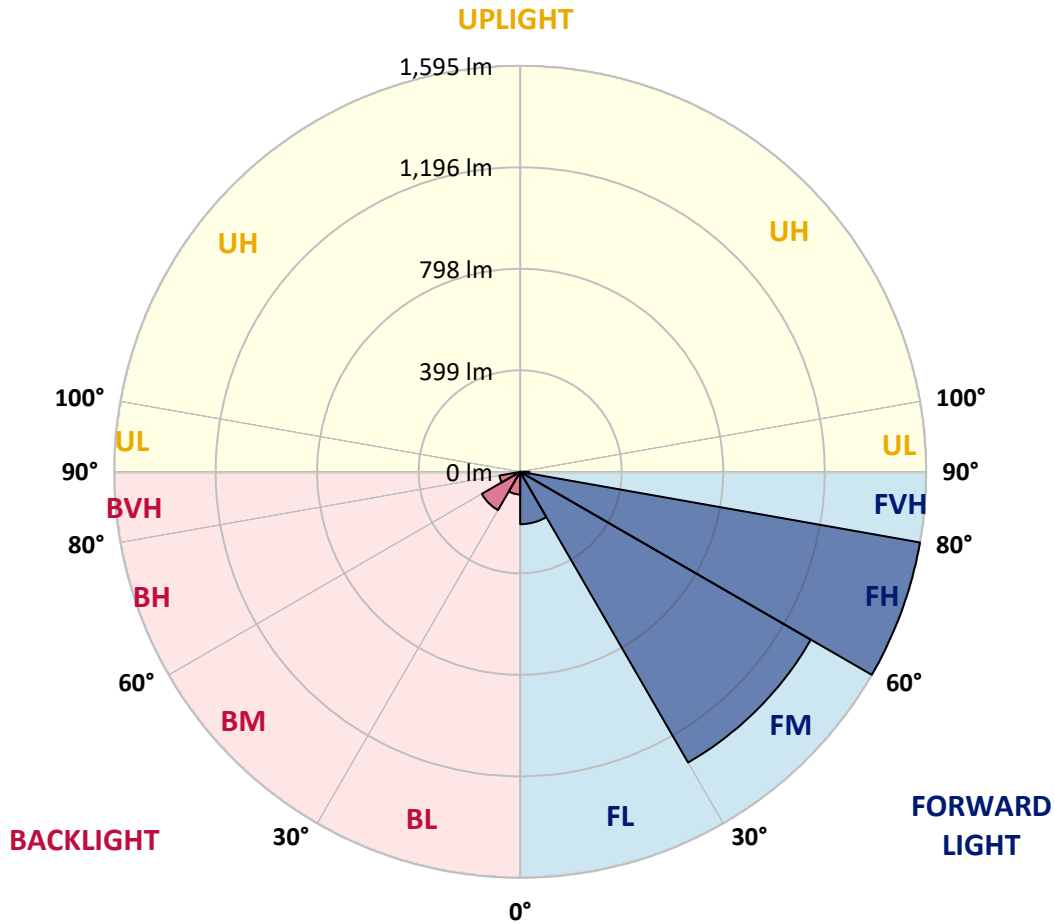
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	205.6	5.9			
FM (30°-60°)	1318.9	37.7			
FH (60°-80°)	1595.2	45.5			G1/1800
FVH (80°-90°)	36.2	1.0			G1/100
BL (0°-30°)	89.0	2.5	B0/110		
BM (30°-60°)	173.9	5.0	B0/220		
BH (60°-80°)	83.0	2.4	B0/110		G0/110
BVH (80°-90°)	1.3	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°	46°	55°	65°	75°	85°
0°	331.3	331.3	331.3	331.3	331.3	331.3	331.3	331.3	331.3	331.3	331.3
2.5°	368.8	362.3	361.1	359.8	355.9	350.7	352.0	348.1	341.6	337.8	333.9
5°	414.1	407.6	405.1	397.3	389.5	377.9	377.9	367.5	355.9	345.5	335.2
7.5°	460.7	455.5	450.3	438.7	427.1	411.5	410.2	394.7	376.6	361.1	344.2
10°	499.5	495.6	489.2	474.9	459.4	442.6	438.7	424.5	401.2	380.5	358.5
12.5°	530.6	526.7	517.6	503.4	484.0	467.2	465.9	447.8	424.5	402.5	375.3
15°	553.9	547.4	537.1	521.5	502.1	486.6	484.0	468.5	446.5	421.9	389.5
17.5°	557.8	553.9	544.8	528.0	511.2	498.2	496.9	485.3	465.9	440.0	406.3
20°	547.4	546.1	538.3	525.4	512.5	506.0	504.7	496.9	481.4	458.1	424.5
22.5°	531.9	530.6	525.4	518.9	513.8	512.5	512.5	509.9	500.8	478.8	447.8
25°	521.5	520.2	517.6	513.8	513.8	521.5	522.8	525.4	517.6	500.8	467.2
27.5°	522.8	520.2	517.6	513.8	518.9	533.2	534.5	540.9	534.5	518.9	489.2
30°	540.9	537.1	529.3	520.2	526.7	546.1	547.4	555.2	550.0	542.2	513.8
32.5°	569.4	566.8	551.3	535.8	539.6	559.1	561.6	575.9	582.3	570.7	535.8
35°	610.8	601.8	582.3	566.8	564.2	578.5	582.3	605.6	622.5	594.0	548.7
37.5°	644.5	636.7	605.6	581.1	595.3	627.6	628.9	657.4	643.2	596.6	569.4
40°	758.3	757.0	702.7	625.1	609.5	645.8	650.9	656.1	649.6	626.3	614.7
42.5°	942.1	926.6	865.8	746.7	640.6	644.5	647.0	674.2	707.9	697.5	701.4
45°	1141.4	1128.5	1059.9	909.8	746.7	714.3	716.9	760.9	825.6	838.6	859.3
47.5°	1325.2	1304.5	1265.6	1114.2	927.9	833.4	838.6	891.6	999.0	1027.5	1059.9
50°	1480.4	1466.2	1430.0	1330.3	1150.5	1021.0	1026.2	1070.2	1210.0	1255.3	1296.7
52.5°	1705.6	1686.2	1616.3	1569.7	1433.9	1265.6	1254.0	1300.6	1461.0	1490.8	1546.4
55°	1912.7	1872.6	1831.2	1811.7	1754.8	1558.1	1554.2	1563.3	1696.6	1712.1	1811.7
57.5°	2000.7	1992.9	2027.9	2092.6	2105.5	1902.3	1885.5	1850.6	1955.4	1954.1	2070.6
60°	2056.3	2056.3	2149.5	2310.0	2413.5	2269.9	2246.6	2137.9	2175.4	2176.7	2284.1
62.5°	2021.4	2030.4	2175.4	2417.4	2625.7	2581.7	2566.2	2383.7	2381.1	2351.4	2388.9
65°	1805.3	1820.8	2053.7	2357.8	2703.4	2806.9	2800.4	2593.4	2518.3	2409.6	2325.5
67°	1472.7	1501.2	1783.3	2143.0	2615.4	2884.5	2885.8	2684.0	2519.6	2312.6	2101.6
67.5°	1392.5	1413.2	1657.7	2065.4	2567.5	2885.8	2885.8	2695.6	2511.8	2282.8	2024.0
70°	887.8	892.9	1159.5	1598.2	2193.5	2746.1	2756.4	2607.6	2288.0	1848.0	1420.9
72.5°	438.7	427.1	612.1	1028.8	1646.1	2350.1	2377.3	2227.1	1810.4	1207.4	750.6
75°	172.1	183.8	266.6	547.4	1031.4	1771.6	1792.3	1620.2	1164.7	622.5	296.3
77.5°	76.4	76.4	113.9	245.9	542.2	1087.0	1097.4	988.7	614.7	256.2	90.6
80°	41.4	44.0	59.5	107.4	273.1	499.5	544.8	490.5	278.2	112.6	31.1
82.5°	20.7	22.0	36.2	60.8	137.2	188.9	199.3	208.4	128.1	69.9	12.9
85°	7.8	9.1	19.4	34.9	62.1	63.4	63.4	81.5	69.9	53.1	6.5
87.5°	1.3	2.6	9.1	14.2	24.6	22.0	19.4	25.9	38.8	33.6	3.9
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°	331.3	331.3	331.3	331.3	331.3	331.3	331.3	331.3	331.3	331.3	331.3
2.5°	331.3	328.7	323.5	319.6	317.1	314.5	311.9	311.9	310.6	310.6	311.9
5°	331.3	326.1	315.8	309.3	304.1	300.2	297.6	297.6	296.3	297.6	298.9
7.5°	337.8	330.0	315.8	304.1	297.6	291.2	288.6	287.3	287.3	288.6	287.3
10°	348.1	337.8	319.6	304.1	295.1	286.0	271.8	258.8	247.2	242.0	240.7
12.5°	361.1	348.1	326.1	308.0	293.8	262.7	223.9	199.3	183.8	176.0	173.4
15°	375.3	359.8	333.9	313.2	274.3	216.1	165.6	138.5	129.4	130.7	132.0
17.5°	390.8	374.0	345.5	310.6	235.5	160.5	121.6	115.2	119.1	122.9	122.9
20°	406.3	388.2	357.2	291.2	185.1	119.1	108.7	110.0	113.9	117.8	117.8
22.5°	427.1	407.6	368.8	257.5	137.2	103.5	103.5	106.1	108.7	112.6	112.6
25°	449.1	429.6	376.6	216.1	102.2	97.1	98.4	100.9	103.5	107.4	107.4
27.5°	472.3	452.9	375.3	166.9	89.3	89.3	90.6	94.5	97.1	100.9	100.9
30°	498.2	481.4	361.1	121.6	82.8	81.5	81.5	85.4	89.3	91.9	93.2
32.5°	520.2	506.0	336.5	91.9	77.6	75.1	73.8	75.1	78.9	81.5	82.8
35°	538.3	533.2	300.2	78.9	72.5	68.6	66.0	64.7	66.0	66.0	67.3
37.5°	572.0	573.3	257.5	73.8	68.6	63.4	58.2	54.4	51.8	50.5	49.2
40°	635.4	634.1	212.2	69.9	64.7	58.2	50.5	45.3	38.8	36.2	36.2
42.5°	724.7	705.3	161.8	66.0	60.8	53.1	42.7	34.9	28.5	27.2	27.2
45°	885.2	804.9	121.6	63.4	56.9	46.6	34.9	25.9	22.0	20.7	20.7
47.5°	1062.5	920.1	97.1	59.5	53.1	41.4	27.2	20.7	16.8	16.8	16.8
50°	1257.9	1030.1	81.5	55.6	46.6	34.9	22.0	16.8	15.5	14.2	15.5
52.5°	1471.4	1116.8	71.2	50.5	40.1	28.5	18.1	15.5	12.9	12.9	12.9
55°	1662.9	1175.0	59.5	44.0	33.6	23.3	16.8	12.9	11.6	10.4	9.1
57.5°	1836.3	1206.1	47.9	37.5	25.9	19.4	14.2	10.4	9.1	6.5	6.5
60°	1925.6	1177.6	37.5	29.8	20.7	15.5	11.6	9.1	6.5	3.9	3.9
62.5°	1939.9	1103.9	29.8	23.3	18.1	12.9	9.1	6.5	3.9	2.6	2.6
65°	1815.6	974.5	24.6	19.4	14.2	10.4	7.8	5.2	2.6	1.3	1.3
67°	1593.0	838.6	22.0	16.8	12.9	9.1	6.5	3.9	2.6	1.3	0.0
67.5°	1549.0	814.0	20.7	16.8	12.9	9.1	6.5	3.9	2.6	1.3	0.0
70°	1017.2	562.9	19.4	15.5	11.6	7.8	5.2	3.9	1.3	0.0	0.0
72.5°	555.2	283.4	18.1	14.2	10.4	7.8	5.2	2.6	1.3	0.0	0.0
75°	203.2	107.4	15.5	12.9	9.1	7.8	5.2	2.6	1.3	0.0	0.0
77.5°	68.6	37.5	14.2	12.9	10.4	7.8	5.2	2.6	1.3	0.0	0.0
80°	23.3	16.8	11.6	10.4	7.8	6.5	5.2	2.6	1.3	0.0	0.0
82.5°	9.1	5.2	3.9	3.9	3.9	5.2	5.2	3.9	1.3	0.0	0.0
85°	3.9	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0	0.0
87.5°	3.9	2.6	1.3	1.3	1.3	0.0	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)