

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: P573058

Luminaire Tested: **ARCH-S-PA2-30-730-U-T2R-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573058  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-14)  
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-T2R-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 320mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3676 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1

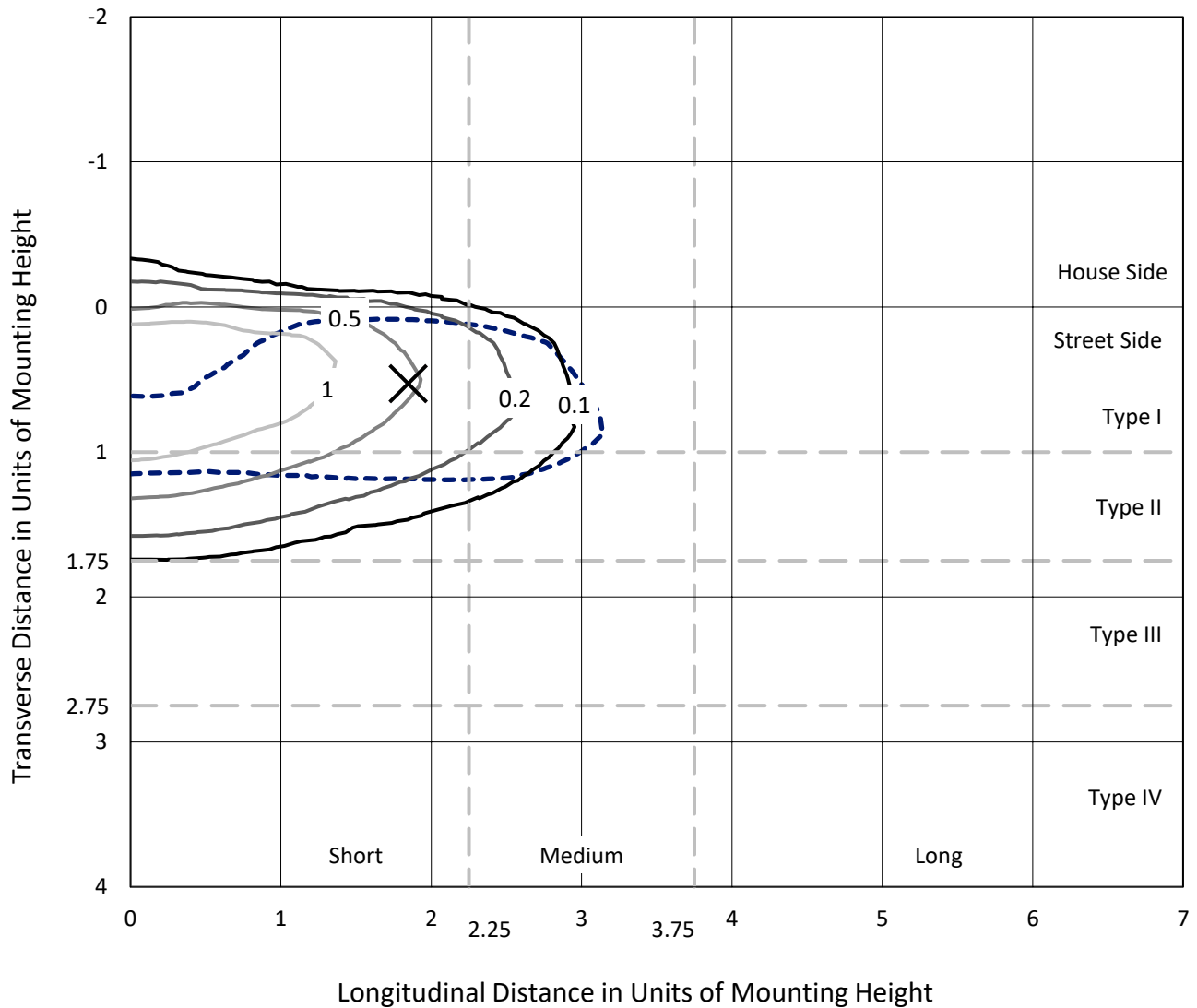
Input Watts (W): 33.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

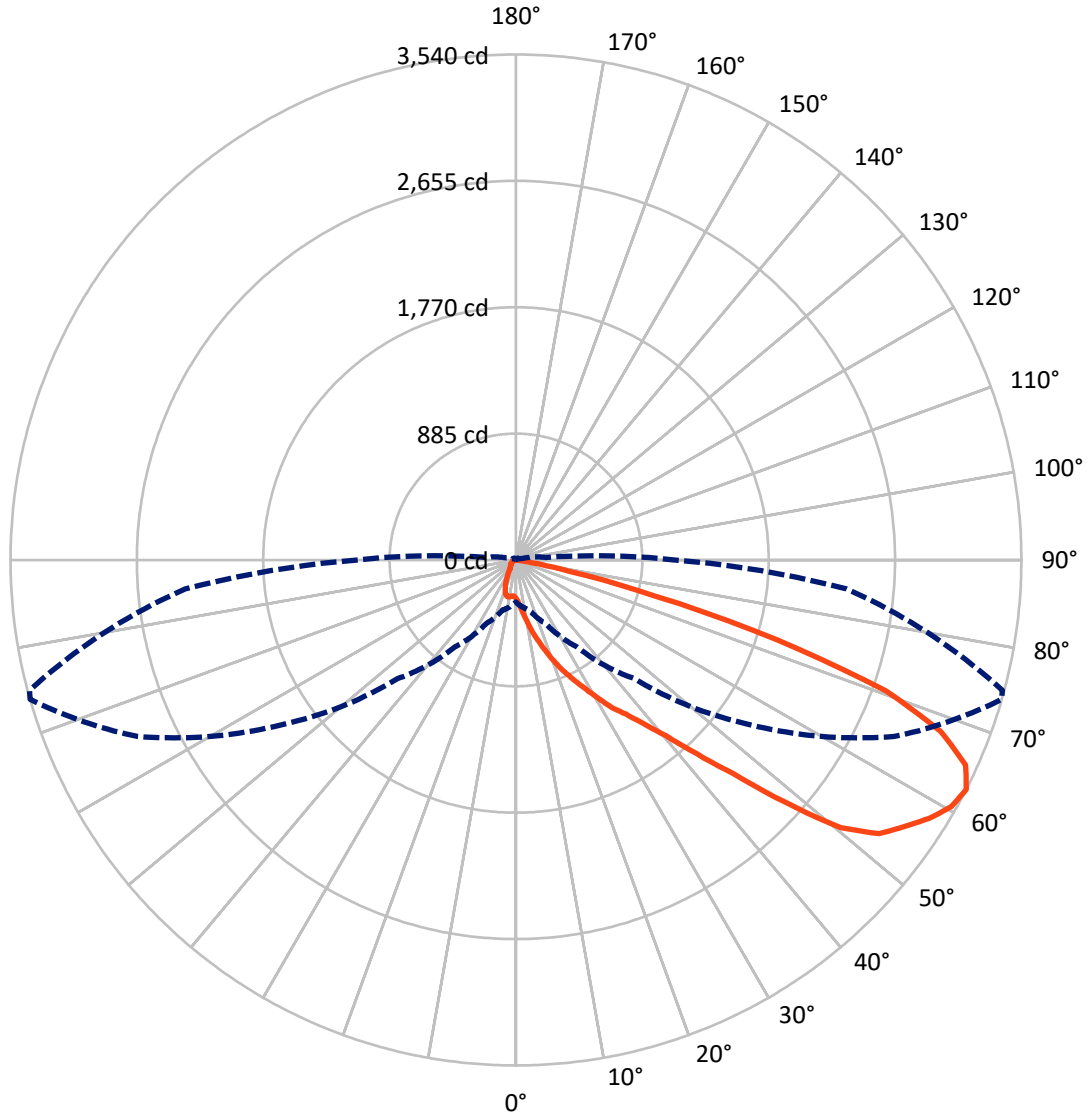
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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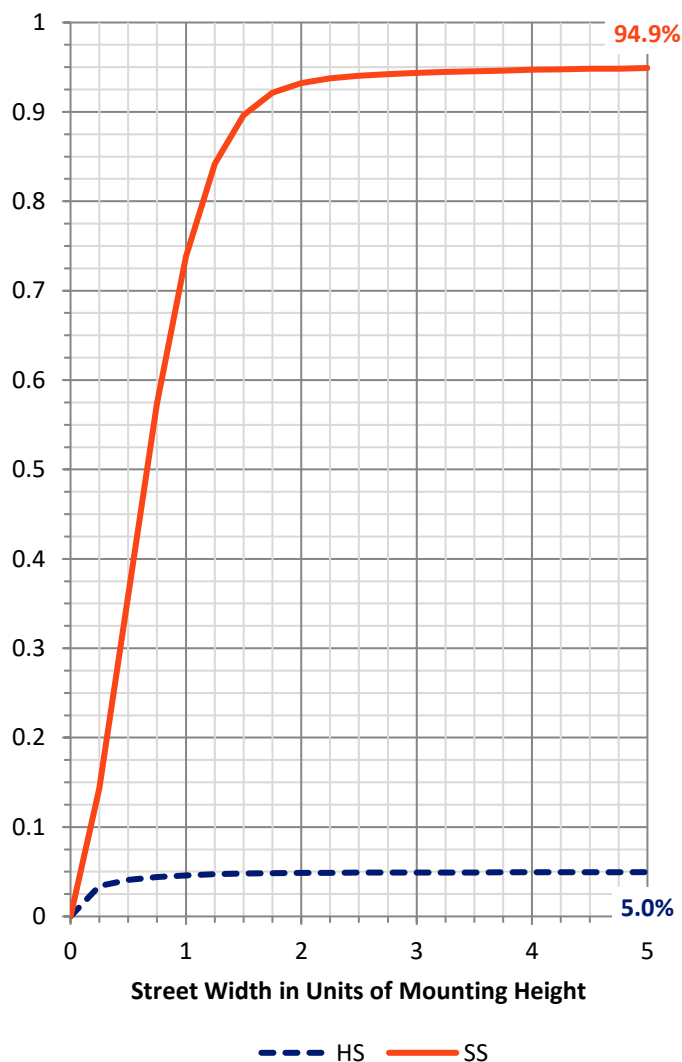
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	183.3	0.0	183.3
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	3492.7	0.0	3492.7
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	3676.0	0.0	3676.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.7	0.9
10°-20°	141.4	3.8
20°-30°	303.4	8.3
30°-40°	532.0	14.5
40°-50°	824.8	22.4
50°-60°	950.9	25.9
60°-70°	668.0	18.2
70°-80°	208.1	5.7
80°-90°	13.8	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°	3676.0	100.0
0°-180°	3676.0	100.0

**Coefficient of Utilization**



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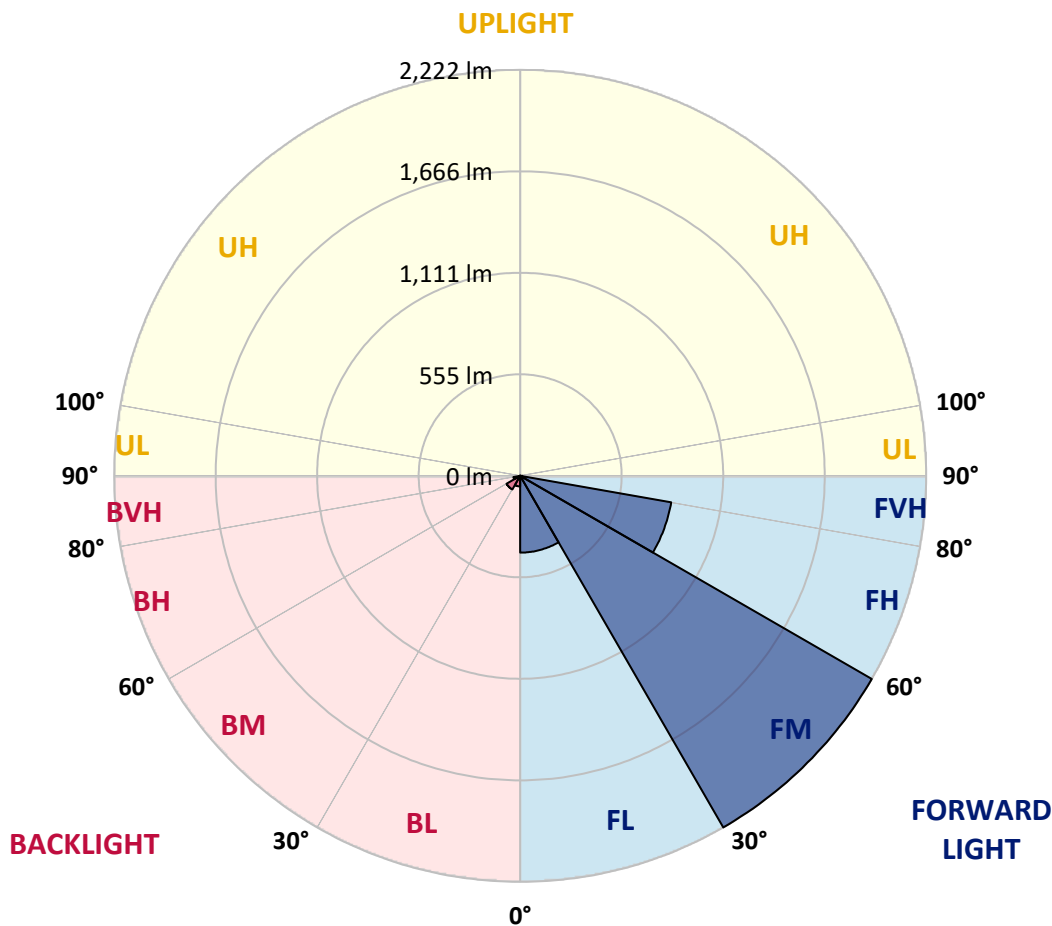
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	420.2	11.4			
FM (30°-60°)	2221.6	60.4			
FH (60°-80°)	839.0	22.8			G1/1800
FVH (80°-90°)	11.9	0.3			G1/100
BL (0°-30°)	58.2	1.6	B0/110		
BM (30°-60°)	86.2	2.3	B0/220		
BH (60°-80°)	37.1	1.0	B0/110		G0/110
BVH (80°-90°)	1.9	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	269.1	269.1	269.1	269.1	269.1	269.1	269.1	269.1	269.1	269.1	269.1
2.5°	373.9	367.4	359.7	353.2	340.2	331.2	319.5	306.6	292.4	291.1	279.4
5°	524.0	504.6	504.6	487.7	468.3	433.4	401.1	360.9	331.2	328.6	297.6
7.5°	677.9	662.4	653.3	627.5	596.4	557.6	505.8	438.6	384.2	375.2	324.7
10°	821.5	809.9	793.1	772.4	745.2	681.8	617.1	529.1	442.5	436.0	357.1
12.5°	932.8	918.5	910.8	901.7	866.8	816.3	732.2	621.0	517.5	503.3	389.4
15°	1016.9	1010.4	1002.6	1002.6	984.5	935.4	848.7	719.3	589.9	573.1	430.8
17.5°	1084.1	1076.4	1075.1	1082.8	1077.7	1042.7	961.2	813.8	665.0	652.0	473.5
20°	1159.2	1148.8	1148.8	1155.3	1154.0	1134.6	1063.4	922.4	752.9	729.7	522.7
22.5°	1265.3	1258.8	1253.6	1243.3	1235.5	1217.4	1155.3	1028.5	837.0	815.0	573.1
25°	1407.6	1399.8	1376.5	1358.4	1324.8	1297.6	1244.6	1123.0	922.4	897.8	622.3
27.5°	1546.0	1530.5	1508.5	1485.2	1447.7	1401.1	1335.1	1212.2	1011.7	985.8	672.7
30°	1692.2	1680.5	1653.4	1615.9	1569.3	1517.5	1438.6	1319.6	1113.9	1085.4	727.1
32.5°	1808.6	1790.5	1765.9	1729.7	1681.8	1645.6	1560.2	1437.3	1231.6	1194.1	784.0
35°	1901.8	1887.5	1855.2	1820.3	1784.0	1773.7	1680.5	1533.1	1326.1	1291.1	844.8
37.5°	1961.3	1947.1	1919.9	1885.0	1870.7	1888.8	1828.0	1663.7	1452.9	1408.9	914.7
40°	2007.9	1991.0	1969.0	1953.5	1948.3	1998.8	1992.3	1833.2	1619.7	1593.9	1010.4
42.5°	2041.5	2024.7	2010.4	2009.2	2042.8	2141.1	2213.6	2070.0	1852.6	1799.6	1133.3
45°	1998.8	1984.6	1992.3	2037.6	2119.1	2274.4	2481.4	2405.0	2133.3	2095.8	1329.9
47.5°	1879.8	1870.7	1905.7	1988.5	2139.8	2355.9	2740.1	2772.4	2534.4	2477.5	1584.8
50°	1693.5	1692.2	1747.8	1860.4	2075.1	2386.9	2870.8	3125.6	2945.8	2887.6	1791.8
52.5°	1441.2	1436.0	1517.5	1674.1	1922.5	2328.7	2895.4	3266.7	3183.9	3115.3	1922.5
55°	1155.3	1143.7	1240.7	1412.7	1697.4	2159.2	2829.4	3297.7	3297.7	3235.6	2019.5
57.5°	812.5	830.6	910.8	1117.8	1419.2	1905.7	2666.4	3269.2	3412.8	3359.8	2150.2
60°	512.3	520.1	608.0	774.9	1076.4	1566.7	2375.3	3146.3	3504.7	3473.6	2255.0
62.5°	295.0	319.5	363.5	490.3	742.6	1177.3	2015.6	2925.1	3539.6	3526.7	2323.5
65°	179.8	182.4	203.1	276.9	456.7	803.4	1613.3	2617.2	3460.7	3472.4	2310.6
67.5°	134.5	134.5	141.0	174.7	260.0	511.0	1190.2	2243.3	3208.4	3246.0	2189.0
70°	116.4	116.4	117.7	128.1	160.4	302.7	786.6	1808.6	2750.5	2746.6	1808.6
72.5°	91.9	95.7	103.5	108.7	121.6	177.2	460.6	1264.0	1910.8	1956.1	1164.4
75°	73.7	75.0	85.4	94.4	102.2	120.3	217.3	702.5	1002.6	1002.6	512.3
77.5°	56.9	59.5	66.0	75.0	85.4	85.4	90.6	271.7	388.1	375.2	151.4
80°	36.2	37.5	47.9	59.5	71.2	60.8	49.2	90.6	106.1	102.2	41.4
82.5°	22.0	23.3	31.0	47.9	47.9	33.6	31.0	37.5	33.6	31.0	16.8
85°	6.5	7.8	22.0	31.0	27.2	12.9	15.5	16.8	15.5	14.2	9.1
87.5°	1.3	1.3	6.5	7.8	6.5	6.5	5.2	6.5	6.5	6.5	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°	269.1	269.1	269.1	269.1	269.1	269.1	269.1	269.1	269.1	269.1	269.1
2.5°	273.0	267.8	257.5	249.7	243.2	236.8	231.6	230.3	227.7	227.7	226.4
5°	284.6	273.0	253.6	240.6	230.3	221.2	213.5	205.7	203.1	200.5	201.8
7.5°	302.7	284.6	257.5	238.0	219.9	199.2	182.4	168.2	157.8	155.2	151.4
10°	326.0	298.9	263.9	232.9	199.2	163.0	139.7	125.5	120.3	113.8	115.1
12.5°	349.3	315.7	269.1	218.6	164.3	128.1	108.7	99.6	95.7	94.4	95.7
15°	376.5	333.8	266.5	192.8	132.0	103.5	91.9	88.0	85.4	85.4	84.1
17.5°	403.6	349.3	257.5	159.1	106.1	88.0	82.8	78.9	76.3	75.0	75.0
20°	433.4	363.5	236.8	126.8	88.0	80.2	75.0	69.9	67.3	67.3	67.3
22.5°	464.4	373.9	209.6	100.9	78.9	71.2	66.0	62.1	59.5	59.5	59.5
25°	491.6	379.1	177.2	84.1	72.4	64.7	59.5	55.6	54.3	53.0	53.0
27.5°	517.5	377.8	143.6	73.7	64.7	58.2	53.0	50.5	47.9	47.9	47.9
30°	543.4	370.0	113.8	67.3	59.5	51.7	47.9	45.3	44.0	42.7	42.7
32.5°	565.4	357.1	89.3	62.1	54.3	46.6	42.7	40.1	40.1	38.8	38.8
35°	587.4	337.7	75.0	58.2	49.2	42.7	38.8	37.5	36.2	36.2	36.2
37.5°	610.6	313.1	66.0	53.0	44.0	38.8	36.2	34.9	33.6	32.3	32.3
40°	639.1	288.5	62.1	49.2	40.1	34.9	32.3	31.0	29.8	29.8	29.8
42.5°	684.4	267.8	58.2	44.0	36.2	32.3	29.8	27.2	27.2	25.9	25.9
45°	769.8	260.0	54.3	40.1	33.6	28.5	27.2	24.6	23.3	23.3	23.3
47.5°	881.0	261.3	50.5	36.2	31.0	25.9	24.6	23.3	20.7	20.7	20.7
50°	972.9	254.9	46.6	33.6	27.2	24.6	22.0	20.7	19.4	19.4	19.4
52.5°	1009.1	243.2	42.7	31.0	25.9	22.0	20.7	19.4	18.1	18.1	18.1
55°	1045.3	238.0	38.8	27.2	23.3	22.0	19.4	18.1	16.8	15.5	15.5
57.5°	1111.3	240.6	34.9	25.9	22.0	20.7	18.1	15.5	12.9	11.6	11.6
60°	1146.2	231.6	32.3	23.3	20.7	19.4	15.5	11.6	9.1	7.8	7.8
62.5°	1116.5	205.7	29.8	22.0	19.4	16.8	11.6	9.1	6.5	3.9	3.9
65°	1033.7	169.5	27.2	20.7	16.8	12.9	10.3	6.5	3.9	2.6	2.6
67.5°	928.9	133.3	24.6	19.4	15.5	11.6	9.1	5.2	2.6	1.3	1.3
70°	750.4	95.7	23.3	18.1	14.2	10.3	7.8	5.2	2.6	1.3	1.3
72.5°	483.9	62.1	20.7	16.8	12.9	10.3	6.5	3.9	2.6	1.3	1.3
75°	223.8	41.4	19.4	15.5	12.9	9.1	6.5	5.2	2.6	1.3	1.3
77.5°	66.0	29.8	18.1	14.2	11.6	9.1	6.5	5.2	2.6	1.3	1.3
80°	27.2	20.7	14.2	12.9	11.6	9.1	6.5	5.2	2.6	1.3	1.3
82.5°	12.9	9.1	6.5	5.2	6.5	6.5	5.2	5.2	2.6	1.3	1.3
85°	6.5	3.9	2.6	2.6	2.6	1.3	1.3	2.6	2.6	1.3	1.3
87.5°	3.9	2.6	2.6	2.6	1.3	1.3	1.3	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)