

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: P573055

Luminaire Tested: **ARCH-S-PA2-30-727-U-T4W-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573055  
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-PA2-30-727-U-T4W-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 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: 3216 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G1

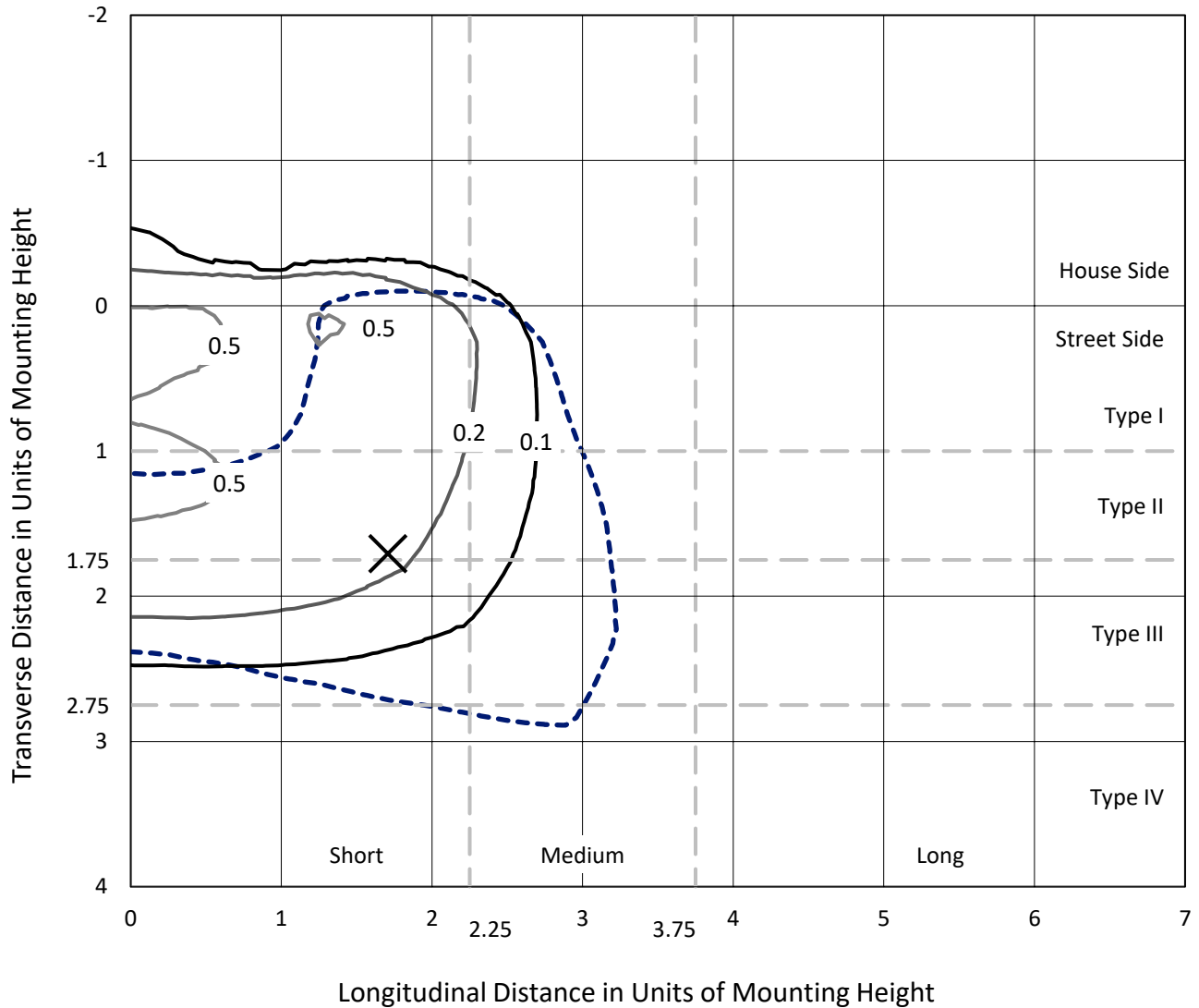
Input Watts (W): 33.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

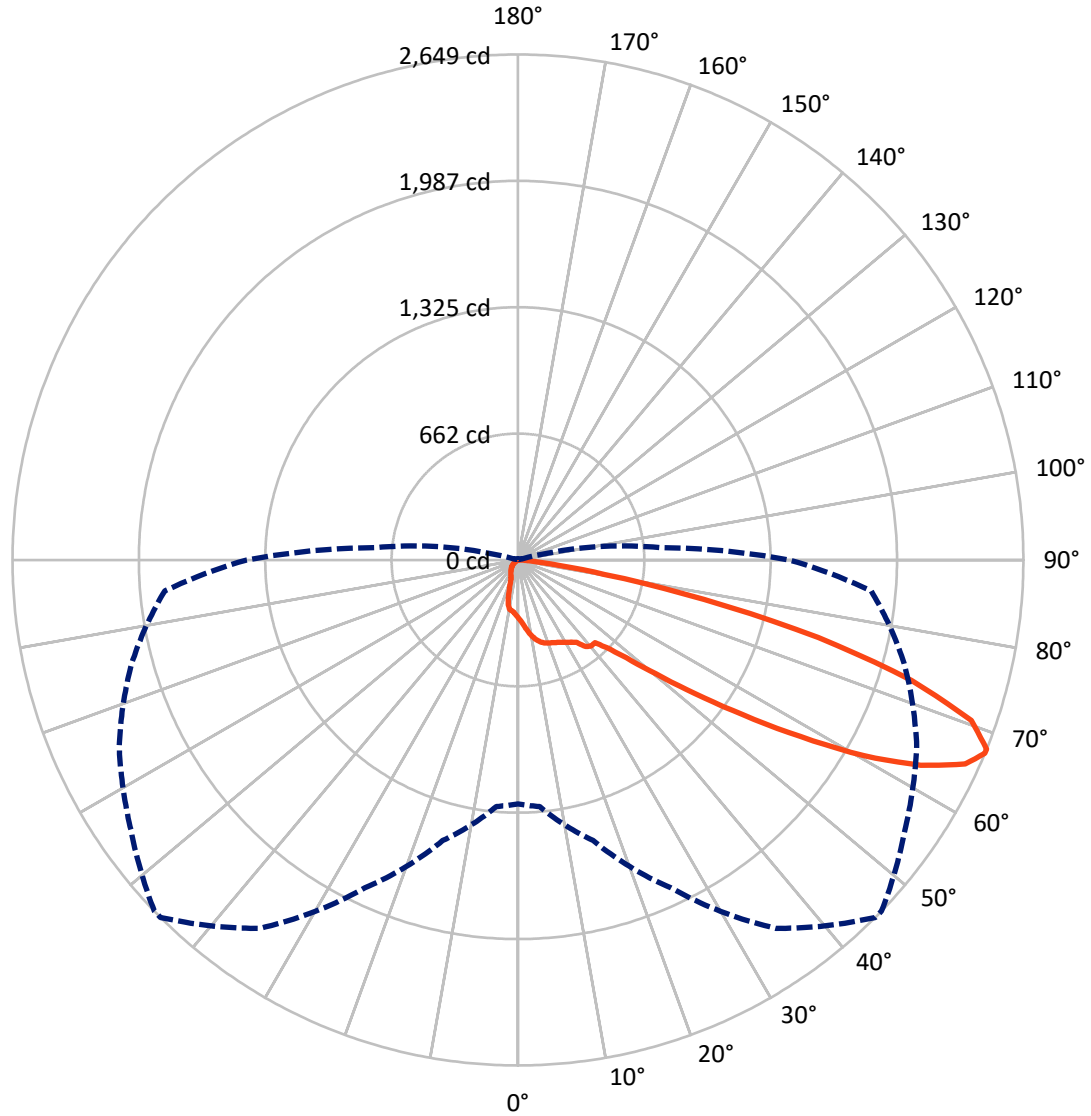
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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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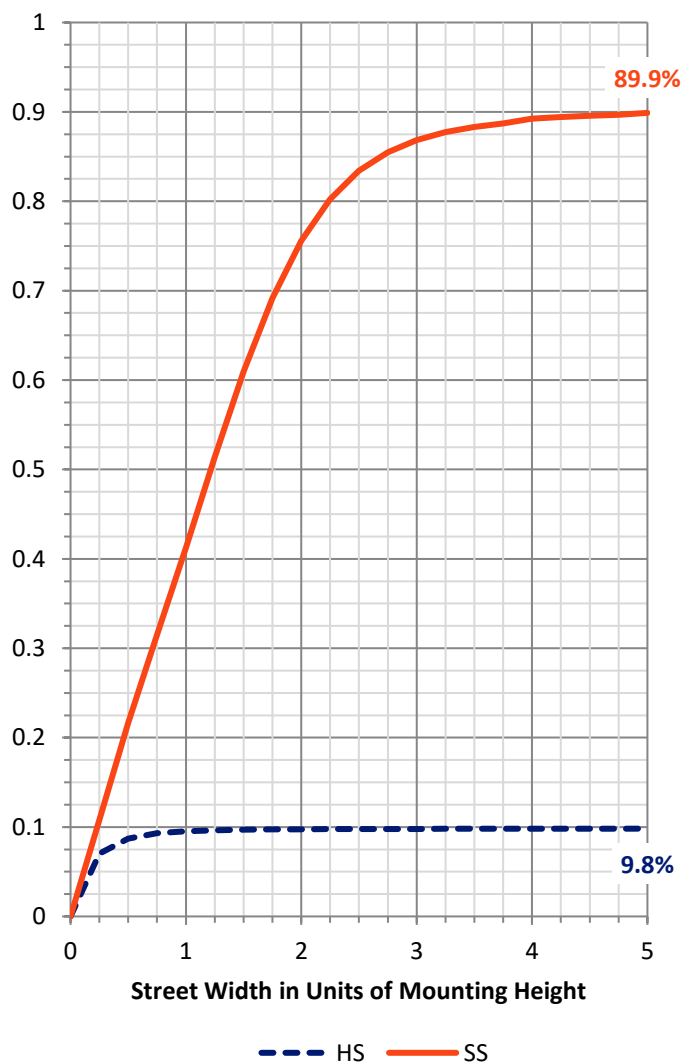
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	318.7	0.0	318.7
	% Fixture	9.9	0.0	9.9
<b>Street Side</b>	Lumens	2897.3	0.0	2897.3
	% Fixture	90.1	0.0	90.1
<b>Total</b>	Lumens	3216.0	0.0	3216.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.5	0.9
10°-20°	92.3	2.9
20°-30°	147.6	4.6
30°-40°	212.5	6.6
40°-50°	372.7	11.6
50°-60°	785.3	24.4
60°-70°	1086.0	33.8
70°-80°	454.7	14.1
80°-90°	34.4	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°	3216.0	100.0
0°-180°	3216.0	100.0

**Coefficient of Utilization**

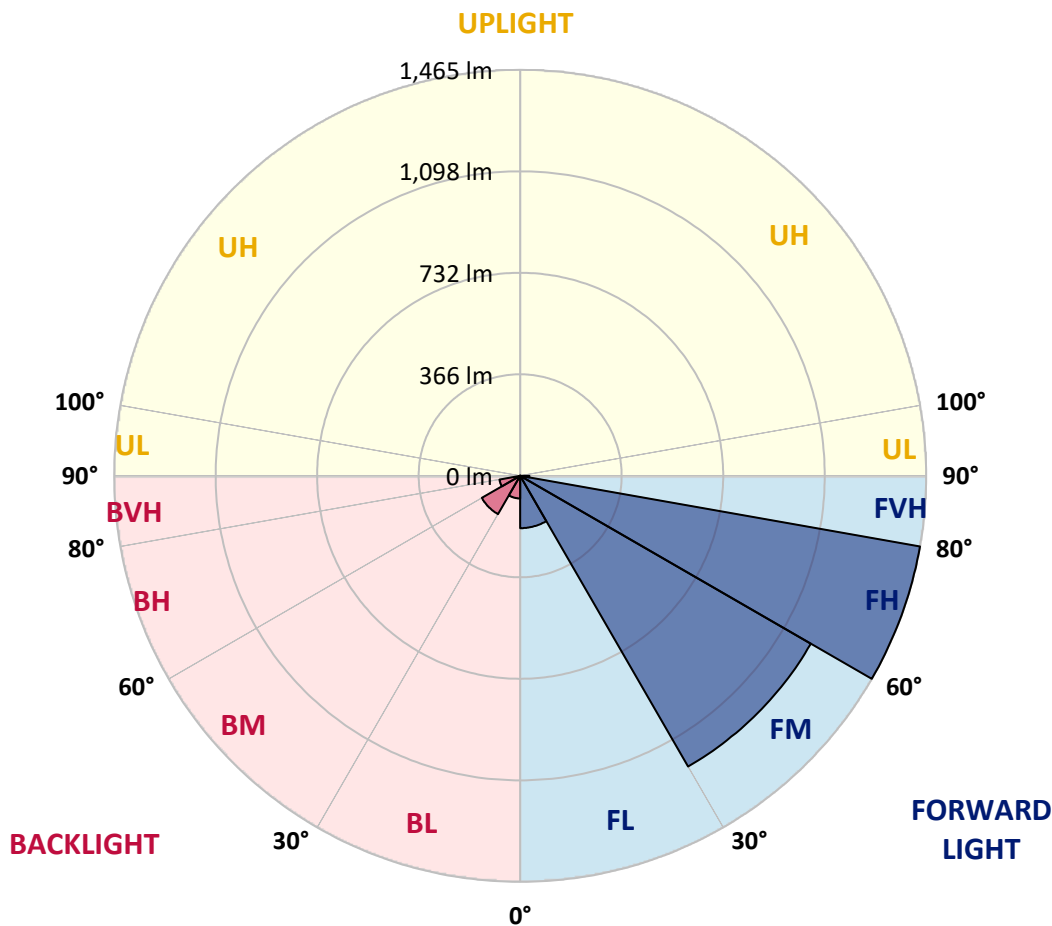


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	188.8	5.9			
FM (30°-60°)	1210.9	37.7			
FH (60°-80°)	1464.5	45.5			G1/1800
FVH (80°-90°)	33.2	1.0			G1/100
BL (0°-30°)	81.7	2.5	B0/110		
BM (30°-60°)	159.7	5.0	B0/220		
BH (60°-80°)	76.2	2.4	B0/110		G0/110
BVH (80°-90°)	1.2	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°	304.1	304.1	304.1	304.1	304.1	304.1	304.1	304.1	304.1	304.1	304.1
2.5°	338.6	332.7	331.5	330.3	326.7	322.0	323.2	319.6	313.7	310.1	306.5
5°	380.2	374.2	371.9	364.7	357.6	346.9	346.9	337.4	326.7	317.2	307.7
7.5°	423.0	418.2	413.4	402.8	392.1	377.8	376.6	362.4	345.7	331.5	316.0
10°	458.6	455.0	449.1	436.0	421.8	406.3	402.8	389.7	368.3	349.3	329.1
12.5°	487.1	483.5	475.2	462.2	444.3	428.9	427.7	411.1	389.7	369.5	344.5
15°	508.5	502.6	493.1	478.8	461.0	446.7	444.3	430.1	409.9	387.3	357.6
17.5°	512.1	508.5	500.2	484.7	469.3	457.4	456.2	445.5	427.7	403.9	373.1
20°	502.6	501.4	494.2	482.4	470.5	464.5	463.3	456.2	442.0	420.6	389.7
22.5°	488.3	487.1	482.4	476.4	471.7	470.5	470.5	468.1	459.8	439.6	411.1
25°	478.8	477.6	475.2	471.7	471.7	478.8	480.0	482.4	475.2	459.8	428.9
27.5°	480.0	477.6	475.2	471.7	476.4	489.5	490.7	496.6	490.7	476.4	449.1
30°	496.6	493.1	485.9	477.6	483.5	501.4	502.6	509.7	504.9	497.8	471.7
32.5°	522.8	520.4	506.1	491.9	495.4	513.2	515.6	528.7	534.6	523.9	491.9
35°	560.8	552.5	534.6	520.4	518.0	531.1	534.6	556.0	571.5	545.3	503.7
37.5°	591.7	584.5	556.0	533.4	546.5	576.2	577.4	603.5	590.5	547.7	522.8
40°	696.2	695.0	645.1	573.8	559.6	592.8	597.6	602.4	596.4	575.0	564.3
42.5°	864.9	850.7	794.8	685.5	588.1	591.7	594.0	619.0	649.9	640.4	643.9
45°	1047.9	1036.0	973.0	835.2	685.5	655.8	658.2	698.6	758.0	769.9	788.9
47.5°	1216.6	1197.6	1161.9	1022.9	851.8	765.1	769.9	818.6	917.2	943.3	973.0
50°	1359.2	1346.1	1312.8	1221.3	1056.2	937.4	942.1	982.5	1110.8	1152.4	1190.5
52.5°	1565.9	1548.1	1483.9	1441.1	1316.4	1161.9	1151.2	1194.0	1341.3	1368.7	1419.7
55°	1756.0	1719.1	1681.1	1663.3	1611.0	1430.4	1426.9	1435.2	1557.6	1571.8	1663.3
57.5°	1836.8	1829.6	1861.7	1921.1	1933.0	1746.5	1731.0	1698.9	1795.2	1794.0	1900.9
60°	1887.9	1887.9	1973.4	2120.7	2215.8	2083.9	2062.5	1962.7	1997.2	1998.3	2097.0
62.5°	1855.8	1864.1	1997.2	2219.3	2410.6	2370.2	2356.0	2188.4	2186.1	2158.7	2193.2
65°	1657.4	1671.6	1885.5	2164.7	2481.9	2576.9	2571.0	2380.9	2312.0	2212.2	2135.0
67°	1352.0	1378.2	1637.2	1967.5	2401.1	2648.2	2649.4	2464.1	2313.2	2123.1	1929.4
67.5°	1278.4	1297.4	1521.9	1896.2	2357.1	2649.4	2649.4	2474.8	2306.1	2095.8	1858.1
70°	815.0	819.8	1064.5	1467.3	2013.8	2521.1	2530.6	2394.0	2100.5	1696.6	1304.5
72.5°	402.8	392.1	562.0	944.5	1511.2	2157.5	2182.5	2044.7	1662.1	1108.5	689.1
75°	158.0	168.7	244.7	502.6	946.9	1626.5	1645.5	1487.5	1069.3	571.5	272.1
77.5°	70.1	70.1	104.6	225.7	497.8	998.0	1007.5	907.7	564.3	235.2	83.2
80°	38.0	40.4	54.7	98.6	250.7	458.6	500.2	450.3	255.4	103.4	28.5
82.5°	19.0	20.2	33.3	55.8	125.9	173.5	183.0	191.3	117.6	64.2	11.9
85°	7.1	8.3	17.8	32.1	57.0	58.2	58.2	74.8	64.2	48.7	5.9
87.5°	1.2	2.4	8.3	13.1	22.6	20.2	17.8	23.8	35.6	30.9	3.6
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°	304.1	304.1	304.1	304.1	304.1	304.1	304.1	304.1	304.1	304.1	304.1
2.5°	304.1	301.8	297.0	293.5	291.1	288.7	286.3	286.3	285.1	285.1	286.3
5°	304.1	299.4	289.9	283.9	279.2	275.6	273.3	273.3	272.1	273.3	274.4
7.5°	310.1	303.0	289.9	279.2	273.3	267.3	264.9	263.8	263.8	264.9	263.8
10°	319.6	310.1	293.5	279.2	270.9	262.6	249.5	237.6	226.9	222.2	221.0
12.5°	331.5	319.6	299.4	282.8	269.7	241.2	205.5	183.0	168.7	161.6	159.2
15°	344.5	330.3	306.5	287.5	251.9	198.4	152.1	127.1	118.8	120.0	121.2
17.5°	358.8	343.4	317.2	285.1	216.2	147.3	111.7	105.7	109.3	112.9	112.9
20°	373.1	356.4	327.9	267.3	169.9	109.3	99.8	101.0	104.6	108.1	108.1
22.5°	392.1	374.2	338.6	236.4	125.9	95.0	95.0	97.4	99.8	103.4	103.4
25°	412.3	394.4	345.7	198.4	93.9	89.1	90.3	92.7	95.0	98.6	98.6
27.5°	433.6	415.8	344.5	153.3	82.0	82.0	83.2	86.7	89.1	92.7	92.7
30°	457.4	442.0	331.5	111.7	76.0	74.8	74.8	78.4	82.0	84.4	85.5
32.5°	477.6	464.5	308.9	84.4	71.3	68.9	67.7	68.9	72.5	74.8	76.0
35°	494.2	489.5	275.6	72.5	66.5	63.0	60.6	59.4	60.6	60.6	61.8
37.5°	525.1	526.3	236.4	67.7	63.0	58.2	53.5	49.9	47.5	46.3	45.1
40°	583.3	582.2	194.8	64.2	59.4	53.5	46.3	41.6	35.6	33.3	33.3
42.5°	665.3	647.5	148.5	60.6	55.8	48.7	39.2	32.1	26.1	24.9	24.9
45°	812.6	739.0	111.7	58.2	52.3	42.8	32.1	23.8	20.2	19.0	19.0
47.5°	975.4	844.7	89.1	54.7	48.7	38.0	24.9	19.0	15.4	15.4	15.4
50°	1154.8	945.7	74.8	51.1	42.8	32.1	20.2	15.4	14.3	13.1	14.3
52.5°	1350.8	1025.3	65.3	46.3	36.8	26.1	16.6	14.3	11.9	11.9	11.9
55°	1526.7	1078.8	54.7	40.4	30.9	21.4	15.4	11.9	10.7	9.5	8.3
57.5°	1685.9	1107.3	44.0	34.5	23.8	17.8	13.1	9.5	8.3	5.9	5.9
60°	1767.9	1081.1	34.5	27.3	19.0	14.3	10.7	8.3	5.9	3.6	3.6
62.5°	1780.9	1013.4	27.3	21.4	16.6	11.9	8.3	5.9	3.6	2.4	2.4
65°	1666.9	894.6	22.6	17.8	13.1	9.5	7.1	4.8	2.4	1.2	1.2
67°	1462.5	769.9	20.2	15.4	11.9	8.3	5.9	3.6	2.4	1.2	0.0
67.5°	1422.1	747.3	19.0	15.4	11.9	8.3	5.9	3.6	2.4	1.2	0.0
70°	933.8	516.8	17.8	14.3	10.7	7.1	4.8	3.6	1.2	0.0	0.0
72.5°	509.7	260.2	16.6	13.1	9.5	7.1	4.8	2.4	1.2	0.0	0.0
75°	186.5	98.6	14.3	11.9	8.3	7.1	4.8	2.4	1.2	0.0	0.0
77.5°	63.0	34.5	13.1	11.9	9.5	7.1	4.8	2.4	1.2	0.0	0.0
80°	21.4	15.4	10.7	9.5	7.1	5.9	4.8	2.4	1.2	0.0	0.0
82.5°	8.3	4.8	3.6	3.6	3.6	4.8	4.8	3.6	1.2	0.0	0.0
85°	3.6	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0
87.5°	3.6	2.4	1.2	1.2	1.2	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)