

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: P573226

Luminaire Tested: **ARCH-S-PA2-50-730-U-T4W-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573226  
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-PA2-50-730-U-T4W-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 520mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

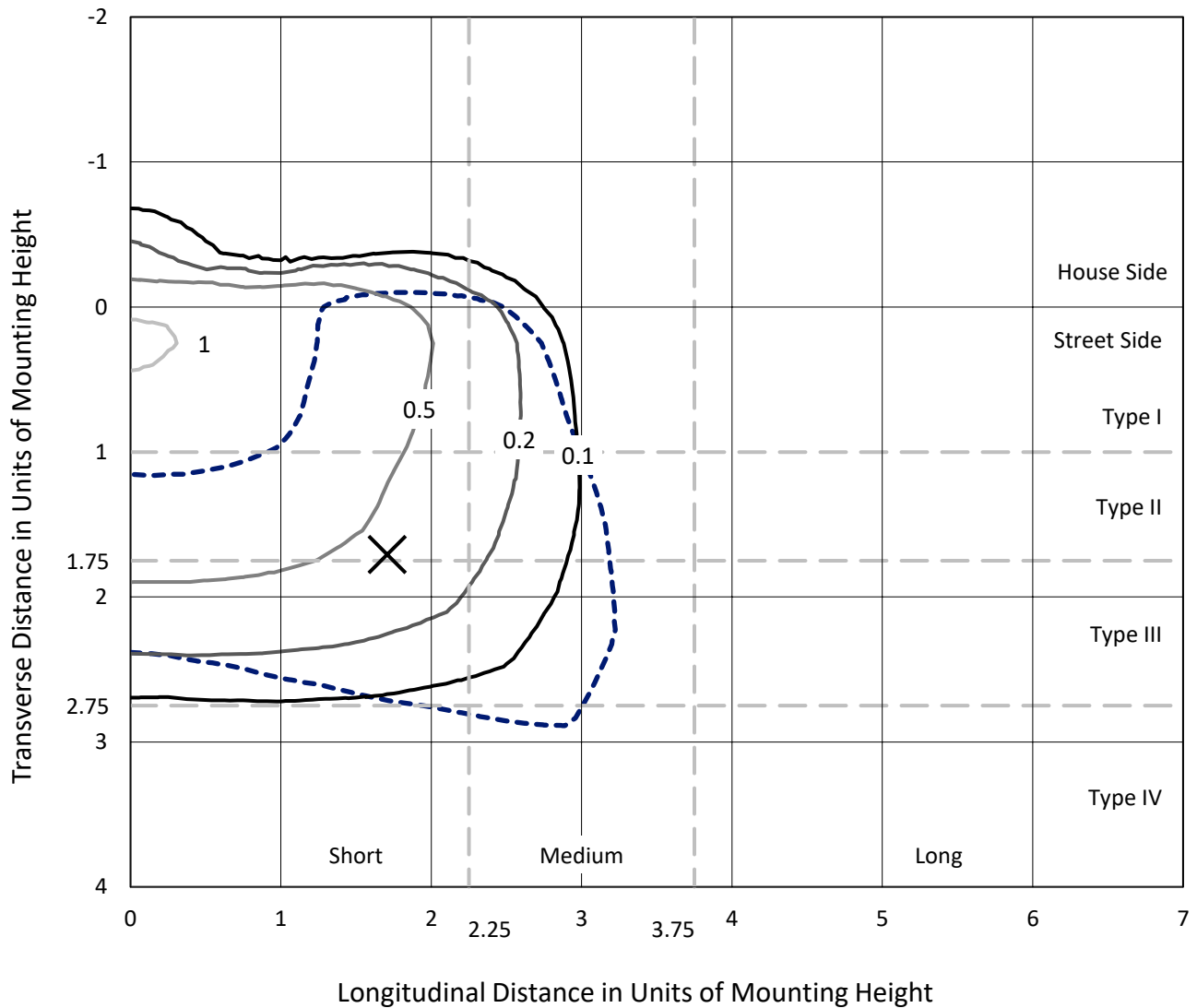
Lumens per Lamp: N/A  
Luminaire Lumens: 5351 lumens  
Efficiency: N/A  
Efficacy: 99.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 53.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

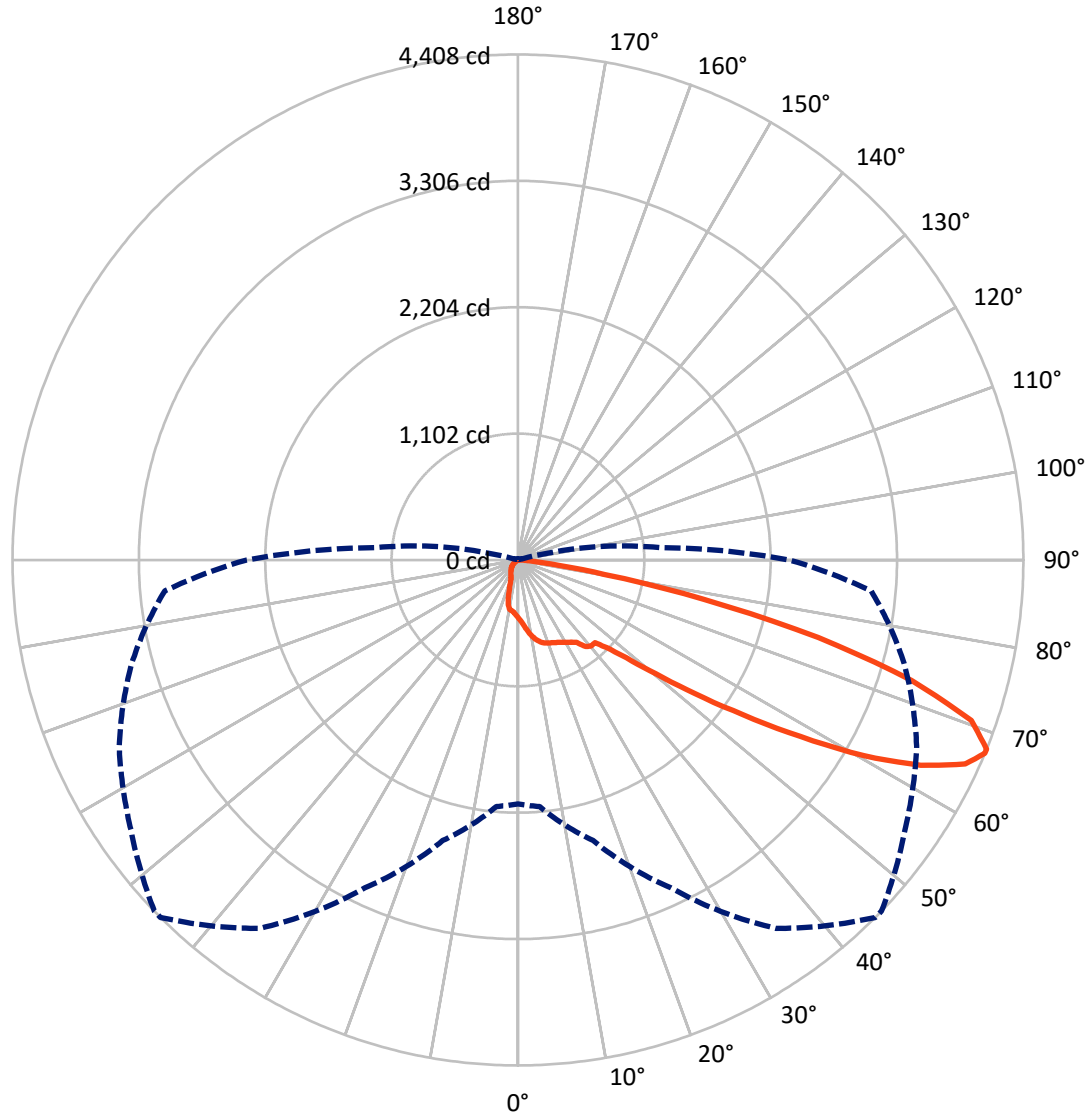
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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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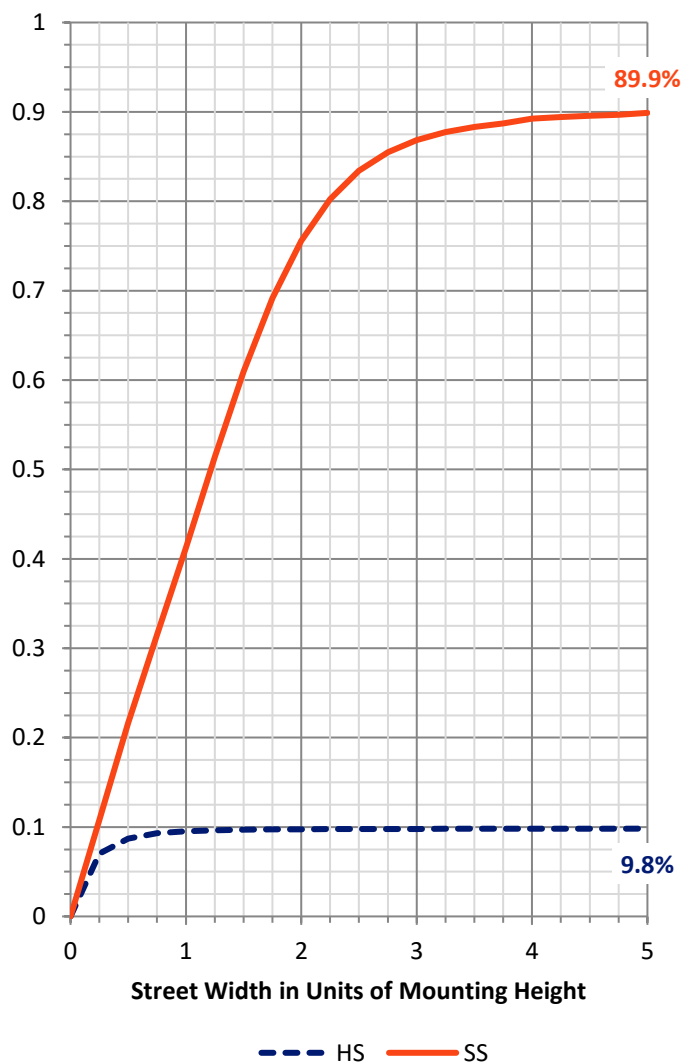
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	530.2	0.0	530.2
	% Fixture	9.9	0.0	9.9
<b>Street Side</b>	Lumens	4820.8	0.0	4820.8
	% Fixture	90.1	0.0	90.1
<b>Total</b>	Lumens	5351.0	0.0	5351.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.8	0.9
10°-20°	153.6	2.9
20°-30°	245.6	4.6
30°-40°	353.5	6.6
40°-50°	620.2	11.6
50°-60°	1306.7	24.4
60°-70°	1807.0	33.8
70°-80°	756.5	14.1
80°-90°	57.2	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°	5351.0	100.0
0°-180°	5351.0	100.0

**Coefficient of Utilization**

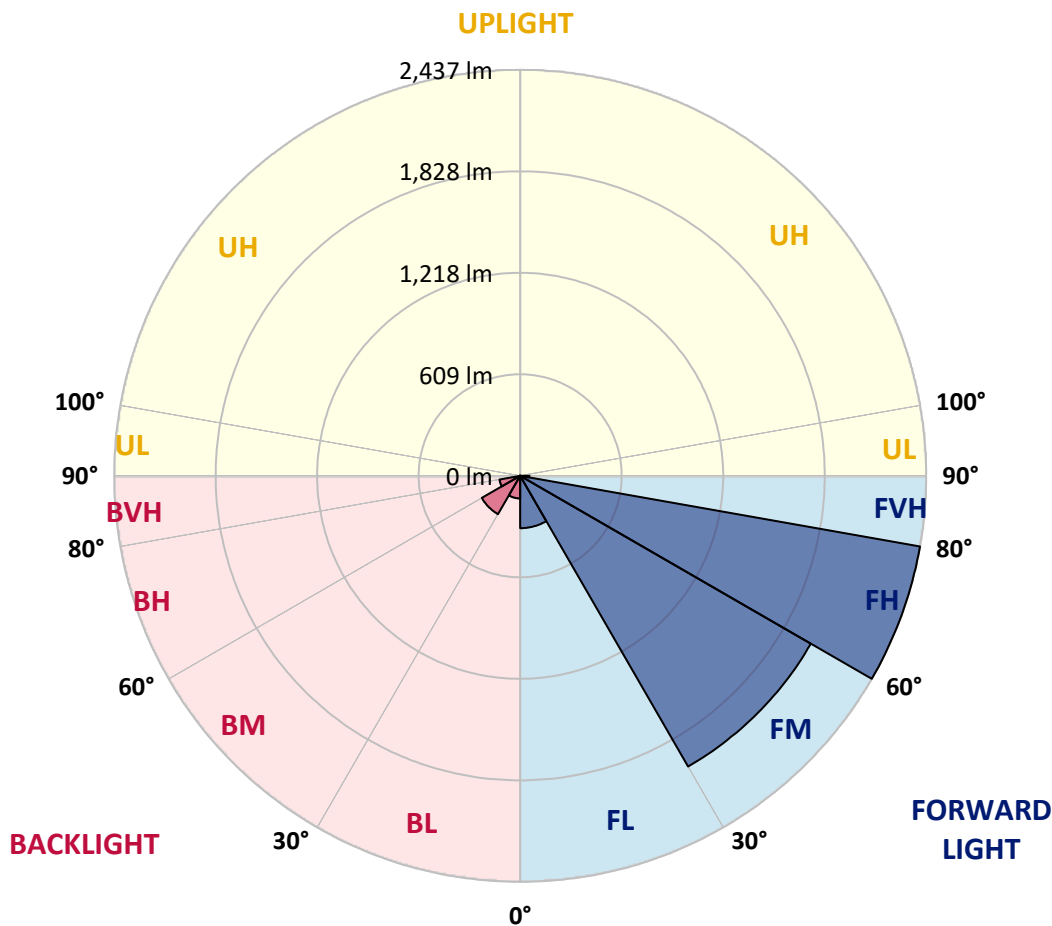


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	314.1	5.9			
FM (30°-60°)	2014.7	37.7			
FH (60°-80°)	2436.7	45.5			G2/5000
FVH (80°-90°)	55.3	1.0			G1/100
BL (0°-30°)	135.9	2.5	B1/500		
BM (30°-60°)	265.6	5.0	B1/1000		
BH (60°-80°)	126.7	2.4	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1
2.5°	563.4	553.5	551.5	549.6	543.6	535.7	537.7	531.8	521.9	515.9	510.0
5°	632.6	622.7	618.7	606.9	595.0	577.2	577.2	561.4	543.6	527.8	512.0
7.5°	703.7	695.8	687.9	670.1	652.3	628.6	626.6	602.9	575.2	551.5	525.8
10°	763.0	757.1	747.2	725.5	701.8	676.1	670.1	648.4	612.8	581.2	547.6
12.5°	810.5	804.6	790.7	769.0	739.3	713.6	711.6	684.0	648.4	614.8	573.3
15°	846.1	836.2	820.4	796.7	767.0	743.3	739.3	715.6	682.0	644.4	595.0
17.5°	852.0	846.1	832.2	806.5	780.8	761.1	759.1	741.3	711.6	672.1	620.7
20°	836.2	834.2	822.3	802.6	782.8	772.9	771.0	759.1	735.4	699.8	648.4
22.5°	812.5	810.5	802.6	792.7	784.8	782.8	782.8	778.9	765.0	731.4	684.0
25°	796.7	794.7	790.7	784.8	784.8	796.7	798.6	802.6	790.7	765.0	713.6
27.5°	798.6	794.7	790.7	784.8	792.7	814.4	816.4	826.3	816.4	792.7	747.2
30°	826.3	820.4	808.5	794.7	804.6	834.2	836.2	848.0	840.1	828.3	784.8
32.5°	869.8	865.8	842.1	818.4	824.3	854.0	857.9	879.7	889.6	871.8	818.4
35°	933.0	919.2	889.6	865.8	861.9	883.6	889.6	925.1	950.8	907.4	838.2
37.5°	984.4	972.6	925.1	887.6	909.3	958.7	960.7	1004.2	982.5	911.3	869.8
40°	1158.4	1156.4	1073.4	954.8	931.1	986.4	994.3	1002.2	992.4	956.8	939.0
42.5°	1439.1	1415.4	1322.5	1140.6	978.5	984.4	988.4	1029.9	1081.3	1065.5	1071.4
45°	1743.5	1723.8	1619.0	1389.7	1140.6	1091.2	1095.1	1162.4	1261.2	1281.0	1312.6
47.5°	2024.2	1992.6	1933.3	1702.0	1417.4	1273.1	1281.0	1362.0	1526.1	1569.6	1619.0
50°	2261.5	2239.7	2184.4	2032.1	1757.4	1559.7	1567.6	1634.8	1848.3	1917.5	1980.8
52.5°	2605.4	2575.8	2469.0	2397.9	2190.3	1933.3	1915.5	1986.7	2231.8	2277.3	2362.3
55°	2921.7	2860.4	2797.2	2767.5	2680.5	2380.1	2374.1	2388.0	2591.6	2615.3	2767.5
57.5°	3056.1	3044.3	3097.6	3196.5	3216.3	2905.9	2880.2	2826.8	2986.9	2985.0	3162.9
60°	3141.1	3141.1	3283.5	3528.6	3686.7	3467.3	3431.7	3265.7	3323.0	3325.0	3489.1
62.5°	3087.8	3101.6	3323.0	3692.7	4010.9	3943.7	3920.0	3641.3	3637.3	3591.8	3649.2
65°	2757.6	2781.4	3137.2	3601.7	4129.5	4287.7	4277.8	3961.5	3846.9	3680.8	3552.3
67°	2249.6	2293.1	2724.0	3273.6	3995.1	4406.3	4408.3	4099.9	3848.8	3532.5	3210.3
67.5°	2127.0	2158.7	2532.3	3155.0	3922.0	4408.3	4408.3	4117.7	3837.0	3487.1	3091.7
70°	1356.1	1364.0	1771.2	2441.3	3350.7	4194.8	4210.6	3983.3	3495.0	2822.9	2170.5
72.5°	670.1	652.3	935.0	1571.6	2514.5	3589.9	3631.4	3402.1	2765.5	1844.4	1146.5
75°	262.9	280.7	407.2	836.2	1575.5	2706.2	2737.9	2475.0	1779.1	950.8	452.7
77.5°	116.6	116.6	174.0	375.6	828.3	1660.5	1676.3	1510.3	939.0	391.4	138.4
80°	63.3	67.2	90.9	164.1	417.1	763.0	832.2	749.2	425.0	172.0	47.4
82.5°	31.6	33.6	55.4	92.9	209.5	288.6	304.4	318.3	195.7	106.7	19.8
85°	11.9	13.8	29.7	53.4	94.9	96.9	96.9	124.5	106.7	81.0	9.9
87.5°	2.0	4.0	13.8	21.7	37.6	33.6	29.7	39.5	59.3	51.4	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°	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1	506.1
2.5°	506.1	502.1	494.2	488.3	484.3	480.4	476.4	476.4	474.4	474.4	476.4
5°	506.1	498.2	482.3	472.5	464.5	458.6	454.7	454.7	452.7	454.7	456.6
7.5°	515.9	504.1	482.3	464.5	454.7	444.8	440.8	438.8	438.8	440.8	438.8
10°	531.8	515.9	488.3	464.5	450.7	436.9	415.1	395.4	377.6	369.7	367.7
12.5°	551.5	531.8	498.2	470.5	448.7	401.3	342.0	304.4	280.7	268.8	264.9
15°	573.3	549.6	510.0	478.4	419.1	330.1	253.0	211.5	197.7	199.7	201.6
17.5°	597.0	571.3	527.8	474.4	359.8	245.1	185.8	175.9	181.9	187.8	187.8
20°	620.7	593.0	545.6	444.8	282.7	181.9	166.1	168.0	174.0	179.9	179.9
22.5°	652.3	622.7	563.4	393.4	209.5	158.1	158.1	162.1	166.1	172.0	172.0
25°	685.9	656.3	575.2	330.1	156.2	148.3	150.2	154.2	158.1	164.1	164.1
27.5°	721.5	691.9	573.3	255.0	136.4	136.4	138.4	144.3	148.3	154.2	154.2
30°	761.1	735.4	551.5	185.8	126.5	124.5	124.5	130.5	136.4	140.4	142.3
32.5°	794.7	772.9	514.0	140.4	118.6	114.7	112.7	114.7	120.6	124.5	126.5
35°	822.3	814.4	458.6	120.6	110.7	104.8	100.8	98.8	100.8	100.8	102.8
37.5°	873.7	875.7	393.4	112.7	104.8	96.9	89.0	83.0	79.1	77.1	75.1
40°	970.6	968.6	324.2	106.7	98.8	89.0	77.1	69.2	59.3	55.4	55.4
42.5°	1107.0	1077.4	247.1	100.8	92.9	81.0	65.2	53.4	43.5	41.5	41.5
45°	1352.1	1229.6	185.8	96.9	87.0	71.2	53.4	39.5	33.6	31.6	31.6
47.5°	1623.0	1405.5	148.3	90.9	81.0	63.3	41.5	31.6	25.7	25.7	25.7
50°	1921.4	1573.5	124.5	85.0	71.2	53.4	33.6	25.7	23.7	21.7	23.7
52.5°	2247.6	1706.0	108.7	77.1	61.3	43.5	27.7	23.7	19.8	19.8	19.8
55°	2540.2	1794.9	90.9	67.2	51.4	35.6	25.7	19.8	17.8	15.8	13.8
57.5°	2805.1	1842.4	73.1	57.3	39.5	29.7	21.7	15.8	13.8	9.9	9.9
60°	2941.5	1798.9	57.3	45.5	31.6	23.7	17.8	13.8	9.9	5.9	5.9
62.5°	2963.2	1686.2	45.5	35.6	27.7	19.8	13.8	9.9	5.9	4.0	4.0
65°	2773.4	1488.5	37.6	29.7	21.7	15.8	11.9	7.9	4.0	2.0	2.0
67°	2433.4	1281.0	33.6	25.7	19.8	13.8	9.9	5.9	4.0	2.0	0.0
67.5°	2366.2	1243.4	31.6	25.7	19.8	13.8	9.9	5.9	4.0	2.0	0.0
70°	1553.8	859.9	29.7	23.7	17.8	11.9	7.9	5.9	2.0	0.0	0.0
72.5°	848.0	432.9	27.7	21.7	15.8	11.9	7.9	4.0	2.0	0.0	0.0
75°	310.4	164.1	23.7	19.8	13.8	11.9	7.9	4.0	2.0	0.0	0.0
77.5°	104.8	57.3	21.7	19.8	15.8	11.9	7.9	4.0	2.0	0.0	0.0
80°	35.6	25.7	17.8	15.8	11.9	9.9	7.9	4.0	2.0	0.0	0.0
82.5°	13.8	7.9	5.9	5.9	5.9	7.9	7.9	5.9	2.0	0.0	0.0
85°	5.9	4.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0
87.5°	5.9	4.0	2.0	2.0	2.0	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)