

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: P572896

Luminaire Tested: **ARCH-S-PA2-130-730-U-T2R-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572896  
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-PA2-130-730-U-T2R-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

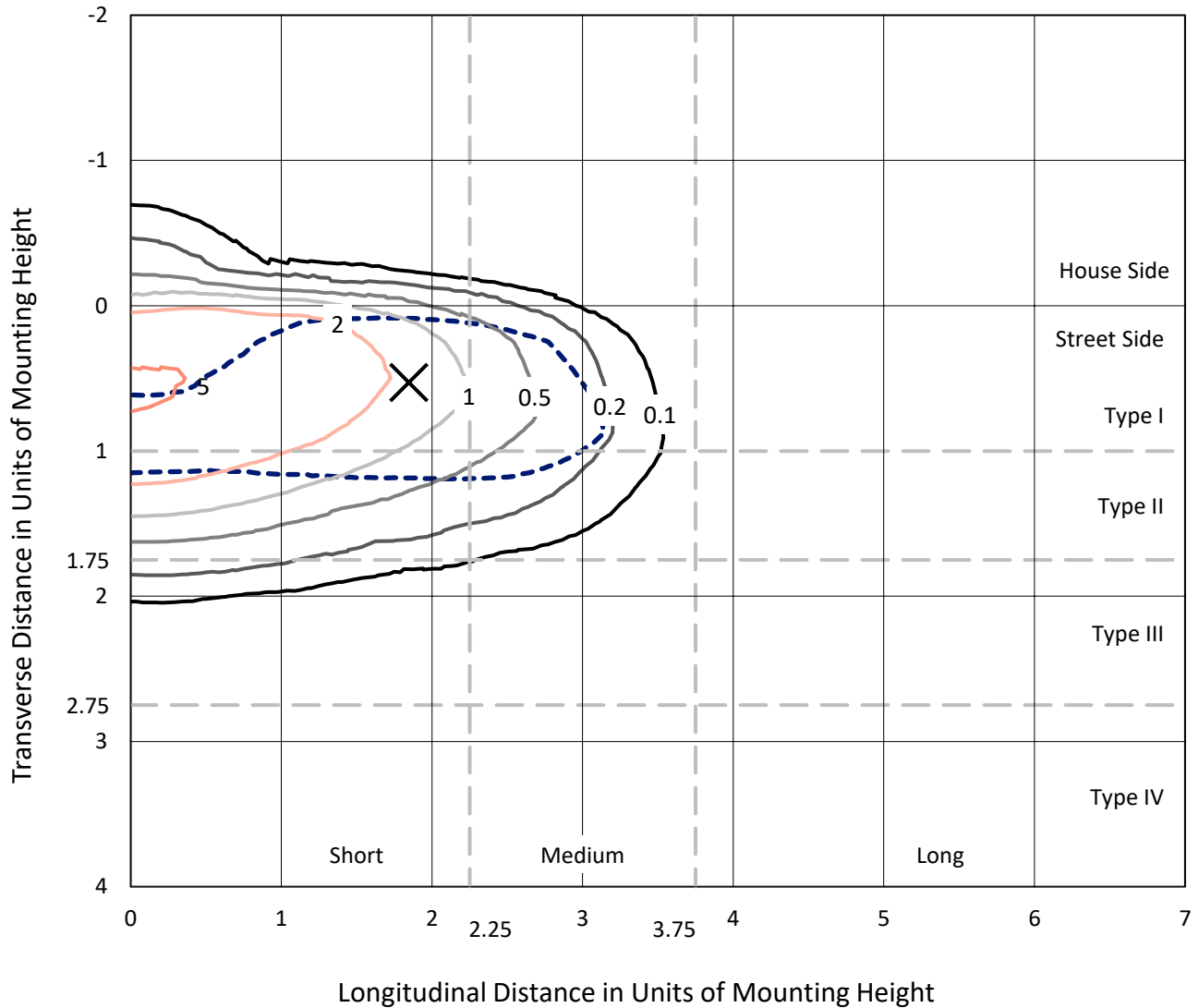
Lumens per Lamp: N/A  
Luminaire Lumens: 11358 lumens  
Efficiency: N/A  
Efficacy: 86.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 131.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

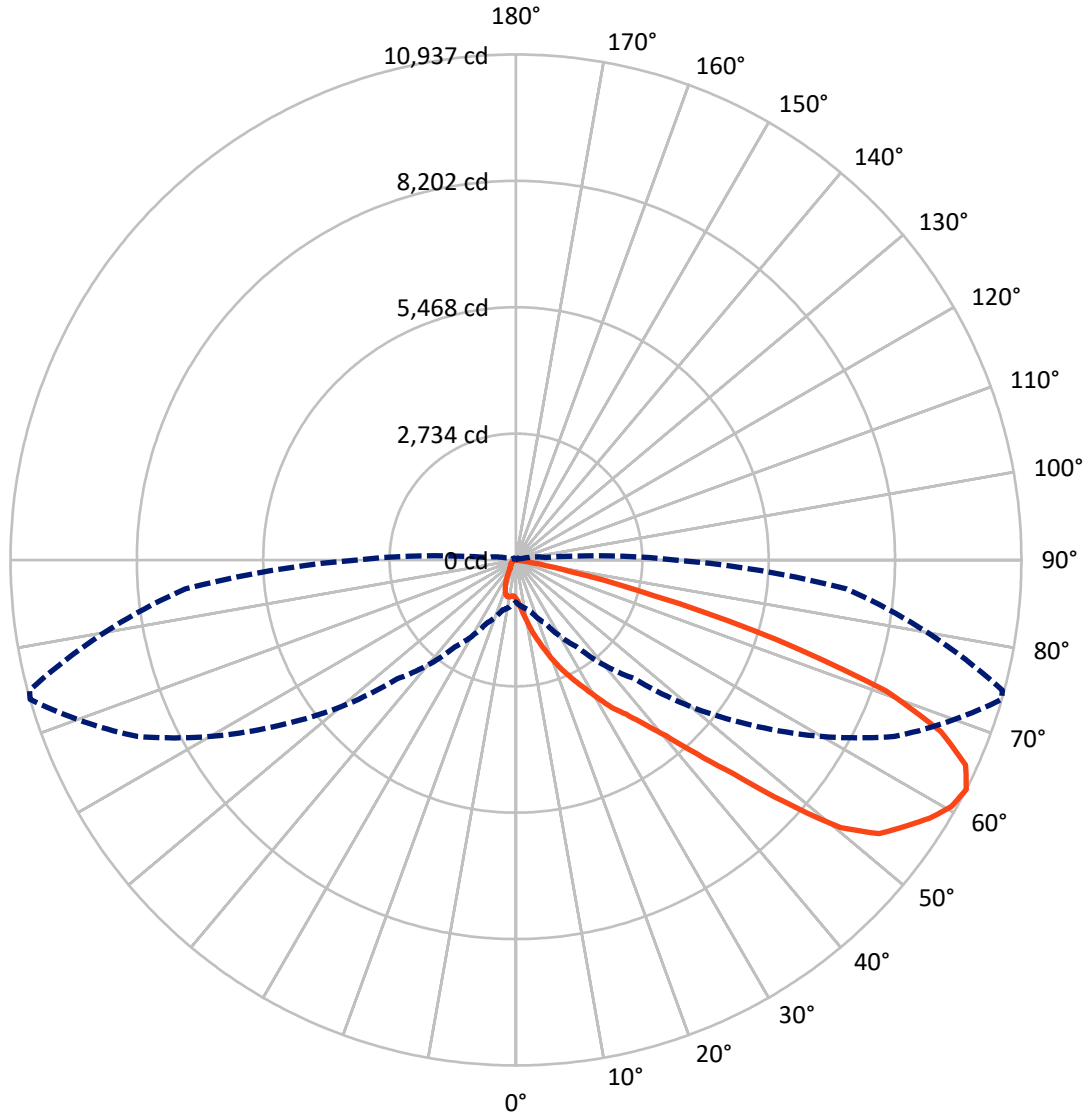
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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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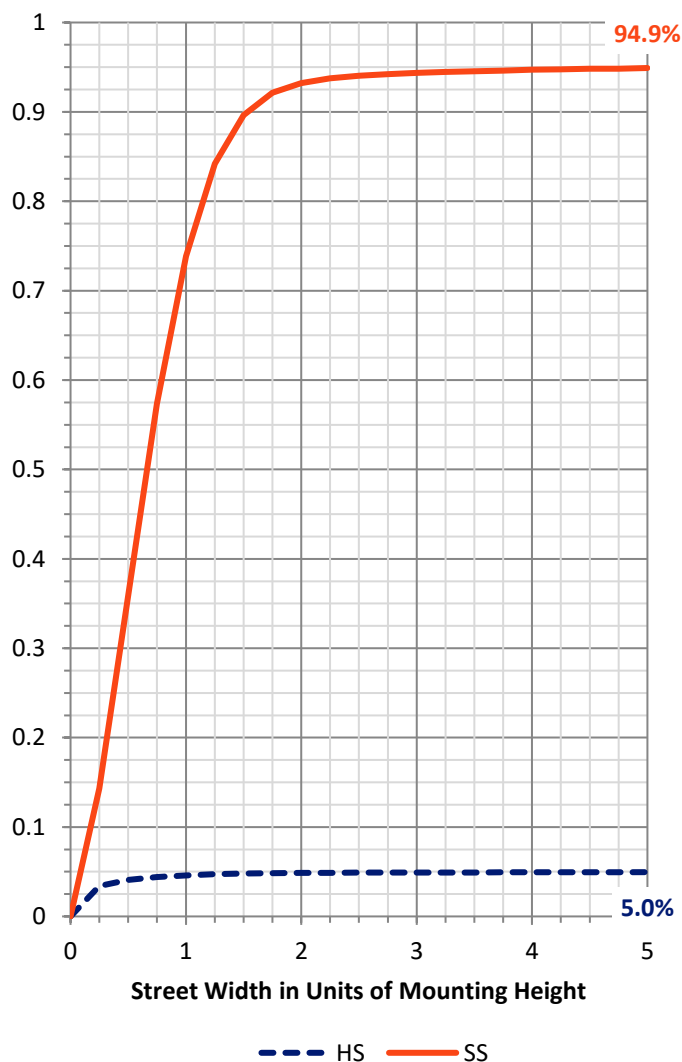
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	566.5	0.0	566.5
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	10791.5	0.0	10791.5
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	11358.0	0.0	11358.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.0	0.9
10°-20°	436.8	3.8
20°-30°	937.3	8.3
30°-40°	1643.9	14.5
40°-50°	2548.5	22.4
50°-60°	2938.0	25.9
60°-70°	2064.0	18.2
70°-80°	643.0	5.7
80°-90°	42.5	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°	11358.0	100.0
0°-180°	11358.0	100.0

**Coefficient of Utilization**

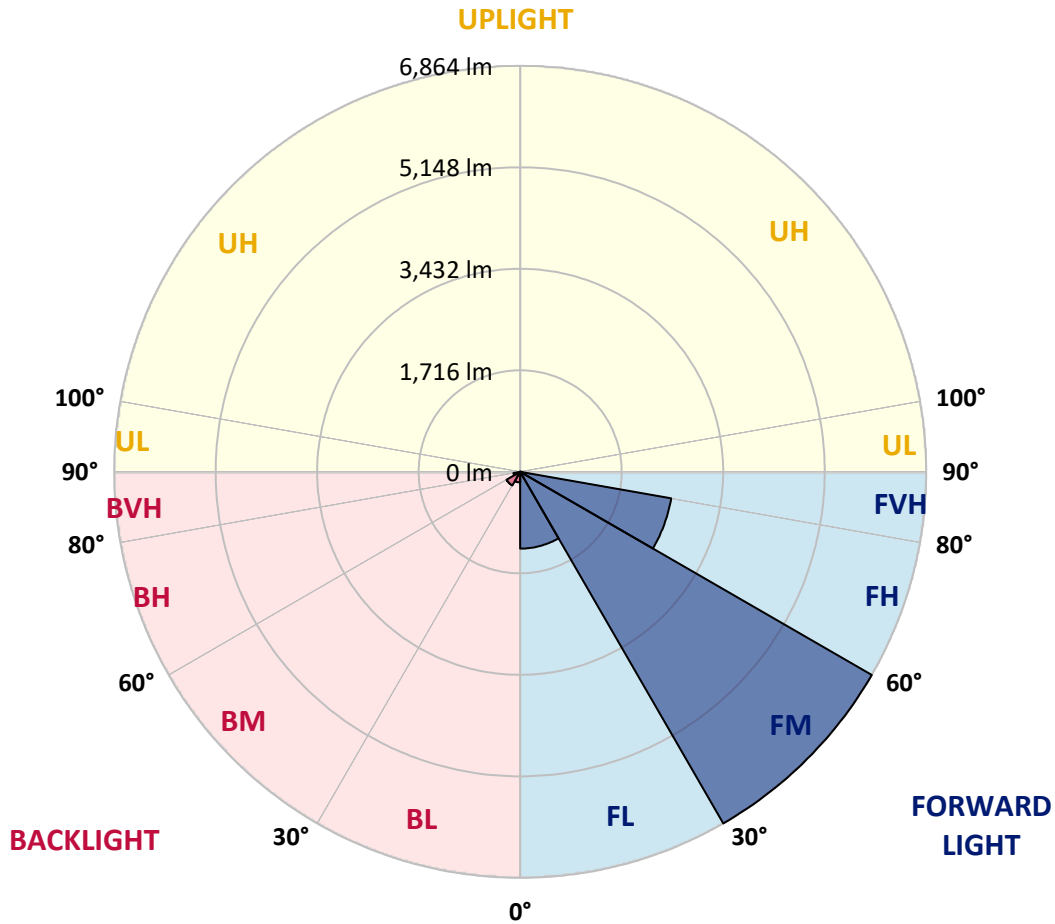


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1298.3	11.4			
FM (30°-60°)	6864.2	60.4			
FH (60°-80°)	2592.4	22.8			G2/5000
FVH (80°-90°)	36.7	0.3			G1/100
BL (0°-30°)	179.8	1.6	B1/500		
BM (30°-60°)	266.2	2.3	B1/1000		
BH (60°-80°)	114.7	1.0	B1/500		G1/500
BVH (80°-90°)	5.8	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	831.4	831.4	831.4	831.4	831.4	831.4	831.4	831.4	831.4	831.4	831.4
2.5°	1155.2	1135.2	1111.3	1091.3	1051.3	1023.3	987.3	947.4	903.4	899.4	863.4
5°	1618.9	1559.0	1559.0	1507.0	1447.0	1339.1	1239.2	1115.2	1023.3	1015.3	919.4
7.5°	2094.6	2046.6	2018.6	1938.7	1842.8	1722.8	1562.9	1355.1	1187.2	1159.2	1003.3
10°	2538.3	2502.3	2450.4	2386.4	2302.5	2106.6	1906.7	1634.9	1367.1	1347.1	1103.3
12.5°	2882.1	2838.1	2814.1	2786.1	2678.2	2522.3	2262.5	1918.7	1598.9	1555.0	1203.2
15°	3141.9	3121.9	3097.9	3097.9	3042.0	2890.1	2622.2	2222.5	1822.8	1770.8	1331.1
17.5°	3349.7	3325.8	3321.8	3345.7	3329.8	3221.8	2970.0	2514.3	2054.6	2014.6	1463.0
20°	3581.6	3549.6	3549.6	3569.6	3565.6	3505.6	3285.8	2850.1	2326.4	2254.5	1614.9
22.5°	3909.4	3889.4	3873.4	3841.4	3817.4	3761.5	3569.6	3177.9	2586.3	2518.3	1770.8
25°	4349.1	4325.1	4253.1	4197.2	4093.2	4009.3	3845.4	3469.7	2850.1	2774.1	1922.7
27.5°	4776.8	4728.8	4660.9	4588.9	4473.0	4329.1	4125.2	3745.5	3125.9	3045.9	2078.6
30°	5228.5	5192.5	5108.6	4992.6	4848.7	4688.8	4445.0	4077.3	3441.7	3353.7	2246.5
32.5°	5588.2	5532.3	5456.3	5344.4	5196.5	5084.6	4820.8	4441.0	3805.4	3689.5	2422.4
35°	5876.0	5832.1	5732.1	5624.2	5512.3	5480.3	5192.5	4736.8	4097.2	3989.3	2610.2
37.5°	6059.9	6016.0	5932.0	5824.1	5780.1	5836.1	5648.2	5140.5	4489.0	4353.1	2826.1
40°	6203.8	6151.9	6083.9	6035.9	6019.9	6175.8	6155.9	5664.2	5004.6	4924.7	3121.9
42.5°	6307.8	6255.8	6211.8	6207.8	6311.8	6615.5	6839.4	6395.7	5724.1	5560.3	3501.6
45°	6175.8	6131.9	6155.9	6295.8	6547.6	7027.3	7666.8	7431.0	6591.6	6475.6	4109.2
47.5°	5808.1	5780.1	5888.0	6143.9	6611.6	7279.1	8466.3	8566.2	7830.7	7654.8	4896.7
50°	5232.5	5228.5	5400.4	5748.1	6411.7	7375.0	8870.0	9657.5	9101.9	8922.0	5536.3
52.5°	4453.0	4437.0	4688.8	5172.5	5940.0	7195.2	8946.0	10093.2	9837.4	9625.5	5940.0
55°	3569.6	3533.6	3833.4	4365.1	5244.5	6671.5	8742.1	10189.1	10189.1	9997.3	6239.8
57.5°	2510.3	2566.3	2814.1	3453.7	4385.0	5888.0	8238.5	10101.2	10544.9	10381.0	6643.5
60°	1582.9	1606.9	1878.7	2394.4	3325.8	4840.7	7339.1	9721.5	10828.7	10732.8	6967.3
62.5°	911.4	987.3	1123.2	1515.0	2294.5	3637.6	6227.8	9037.9	10936.6	10896.7	7179.2
65°	555.6	563.6	627.6	855.4	1411.1	2482.3	4984.6	8086.6	10692.8	10728.8	7139.2
67.5°	415.7	415.7	435.7	539.6	803.5	1578.9	3677.5	6931.3	9913.3	10029.2	6763.4
70°	359.8	359.8	363.8	395.7	495.7	935.4	2430.4	5588.2	8498.3	8486.3	5588.2
72.5°	283.8	295.8	319.8	335.8	375.7	547.6	1423.0	3905.4	5904.0	6043.9	3597.6
75°	227.8	231.8	263.8	291.8	315.8	371.7	671.5	2170.5	3097.9	3097.9	1582.9
77.5°	175.9	183.9	203.9	231.8	263.8	263.8	279.8	839.4	1199.2	1159.2	467.7
80°	111.9	115.9	147.9	183.9	219.9	187.9	151.9	279.8	327.8	315.8	127.9
82.5°	68.0	72.0	95.9	147.9	147.9	103.9	95.9	115.9	103.9	95.9	52.0
85°	20.0	24.0	68.0	95.9	83.9	40.0	48.0	52.0	48.0	44.0	28.0
87.5°	4.0	4.0	20.0	24.0	20.0	20.0	16.0	20.0	20.0	20.0	12.0
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°	831.4	831.4	831.4	831.4	831.4	831.4	831.4	831.4	831.4	831.4	831.4
2.5°	843.4	827.4	795.5	771.5	751.5	731.5	715.5	711.5	703.5	703.5	699.5
5°	879.4	843.4	783.5	743.5	711.5	683.5	659.6	635.6	627.6	619.6	623.6
7.5°	935.4	879.4	795.5	735.5	679.5	615.6	563.6	519.7	487.7	479.7	467.7
10°	1007.3	923.4	815.5	719.5	615.6	503.7	431.7	387.7	371.7	351.8	355.8
12.5°	1079.3	975.3	831.4	675.5	507.7	395.7	335.8	307.8	295.8	291.8	295.8
15°	1163.2	1031.3	823.4	595.6	407.7	319.8	283.8	271.8	263.8	263.8	259.8
17.5°	1247.2	1079.3	795.5	491.7	327.8	271.8	255.8	243.8	235.8	231.8	231.8
20°	1339.1	1123.2	731.5	391.7	271.8	247.8	231.8	215.9	207.9	207.9	207.9
22.5°	1435.0	1155.2	647.6	311.8	243.8	219.9	203.9	191.9	183.9	183.9	183.9
25°	1519.0	1171.2	547.6	259.8	223.8	199.9	183.9	171.9	167.9	163.9	163.9
27.5°	1598.9	1167.2	443.7	227.8	199.9	179.9	163.9	155.9	147.9	147.9	147.9
30°	1678.9	1143.2	351.8	207.9	183.9	159.9	147.9	139.9	135.9	131.9	131.9
32.5°	1746.8	1103.3	275.8	191.9	167.9	143.9	131.9	123.9	123.9	119.9	119.9
35°	1814.8	1043.3	231.8	179.9	151.9	131.9	119.9	115.9	111.9	111.9	111.9
37.5°	1886.7	967.3	203.9	163.9	135.9	119.9	111.9	107.9	103.9	99.9	99.9
40°	1974.7	891.4	191.9	151.9	123.9	107.9	99.9	95.9	91.9	91.9	91.9
42.5°	2114.6	827.4	179.9	135.9	111.9	99.9	91.9	83.9	83.9	79.9	79.9
45°	2378.4	803.5	167.9	123.9	103.9	87.9	83.9	75.9	72.0	72.0	72.0
47.5°	2722.2	807.5	155.9	111.9	95.9	79.9	75.9	72.0	64.0	64.0	64.0
50°	3006.0	787.5	143.9	103.9	83.9	75.9	68.0	64.0	60.0	60.0	60.0
52.5°	3117.9	751.5	131.9	95.9	79.9	68.0	64.0	60.0	56.0	56.0	56.0
55°	3229.8	735.5	119.9	83.9	72.0	68.0	60.0	56.0	52.0	48.0	48.0
57.5°	3433.7	743.5	107.9	79.9	68.0	64.0	56.0	48.0	40.0	36.0	36.0
60°	3541.6	715.5	99.9	72.0	64.0	60.0	48.0	36.0	28.0	24.0	24.0
62.5°	3449.7	635.6	91.9	68.0	60.0	52.0	36.0	28.0	20.0	12.0	12.0
65°	3193.9	523.6	83.9	64.0	52.0	40.0	32.0	20.0	12.0	8.0	8.0
67.5°	2870.1	411.7	75.9	60.0	48.0	36.0	28.0	16.0	8.0	4.0	4.0
70°	2318.4	295.8	72.0	56.0	44.0	32.0	24.0	16.0	8.0	4.0	4.0
72.5°	1495.0	191.9	64.0	52.0	40.0	32.0	20.0	12.0	8.0	4.0	4.0
75°	691.5	127.9	60.0	48.0	40.0	28.0	20.0	16.0	8.0	4.0	4.0
77.5°	203.9	91.9	56.0	44.0	36.0	28.0	20.0	16.0	8.0	4.0	4.0
80°	83.9	64.0	44.0	40.0	36.0	28.0	20.0	16.0	8.0	4.0	4.0
82.5°	40.0	28.0	20.0	16.0	20.0	20.0	16.0	16.0	8.0	4.0	4.0
85°	20.0	12.0	8.0	8.0	8.0	4.0	4.0	8.0	8.0	4.0	4.0
87.5°	12.0	8.0	8.0	8.0	4.0	4.0	4.0	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)