

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: P573301

Luminaire Tested: **ARCH-S-PA2-60-730-U-T2R-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573301  
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-PA2-60-730-U-T2R-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 625mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

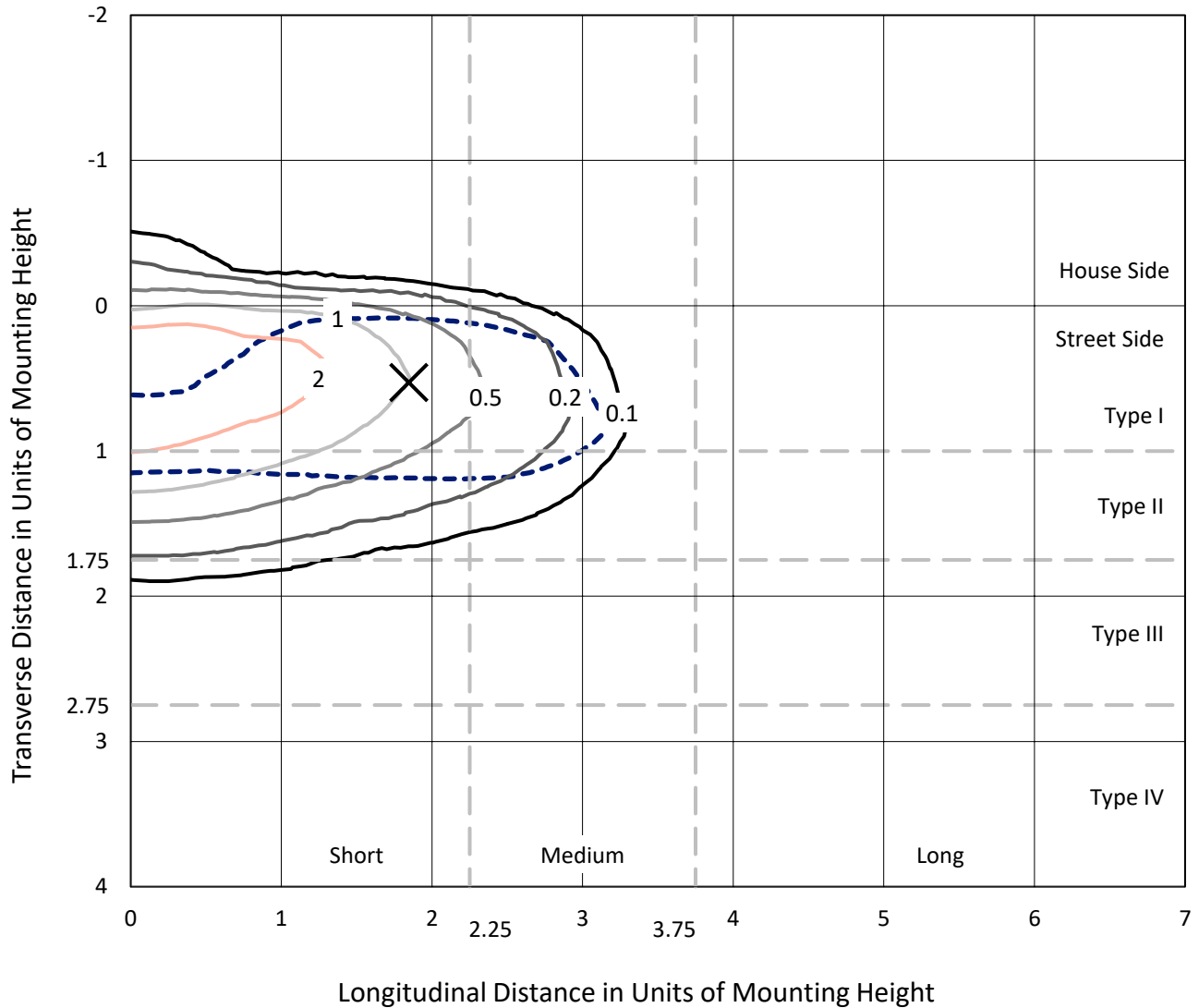
Lumens per Lamp: N/A  
Luminaire Lumens: 6629 lumens  
Efficiency: N/A  
Efficacy: 105.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 63.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

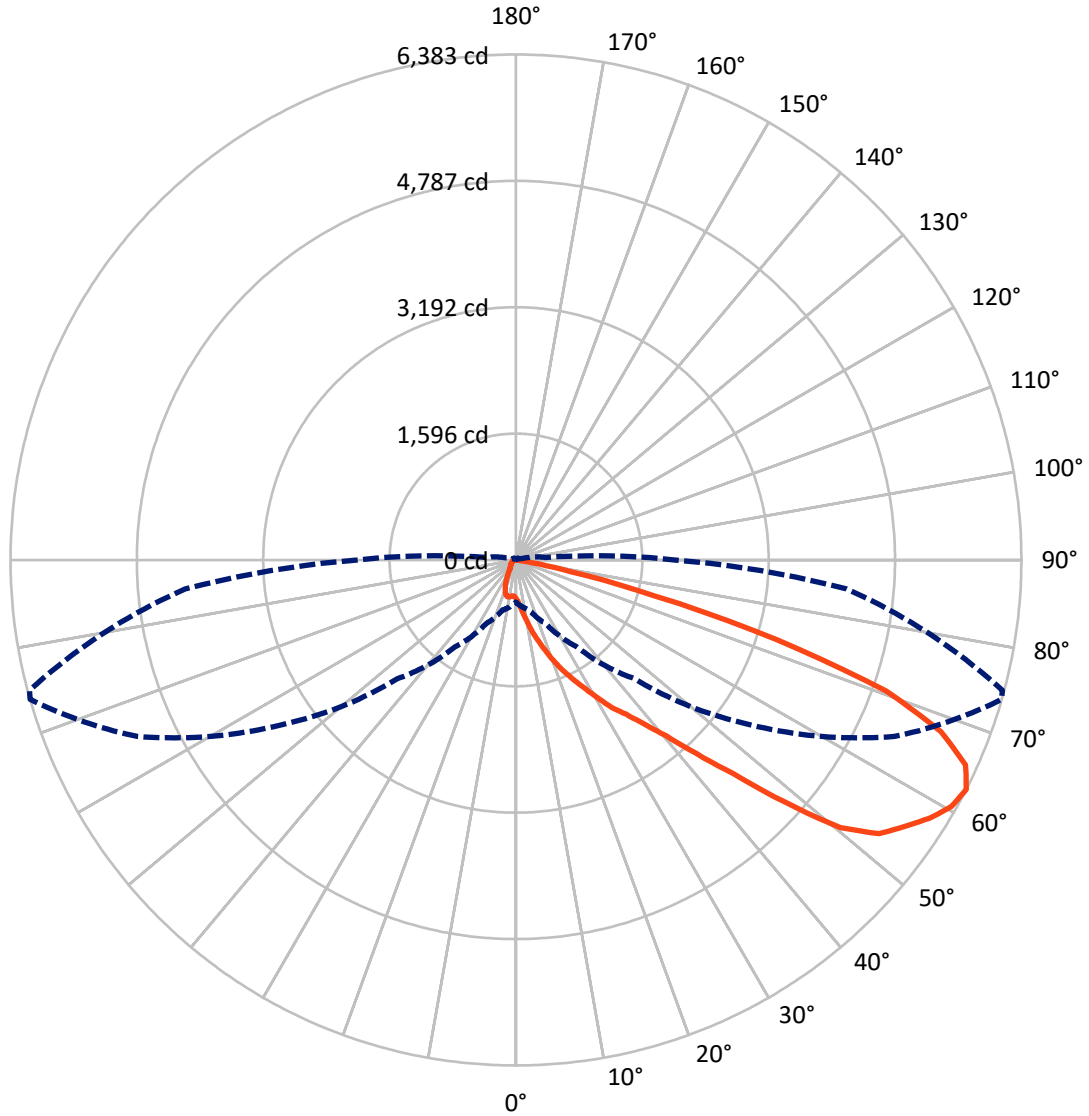
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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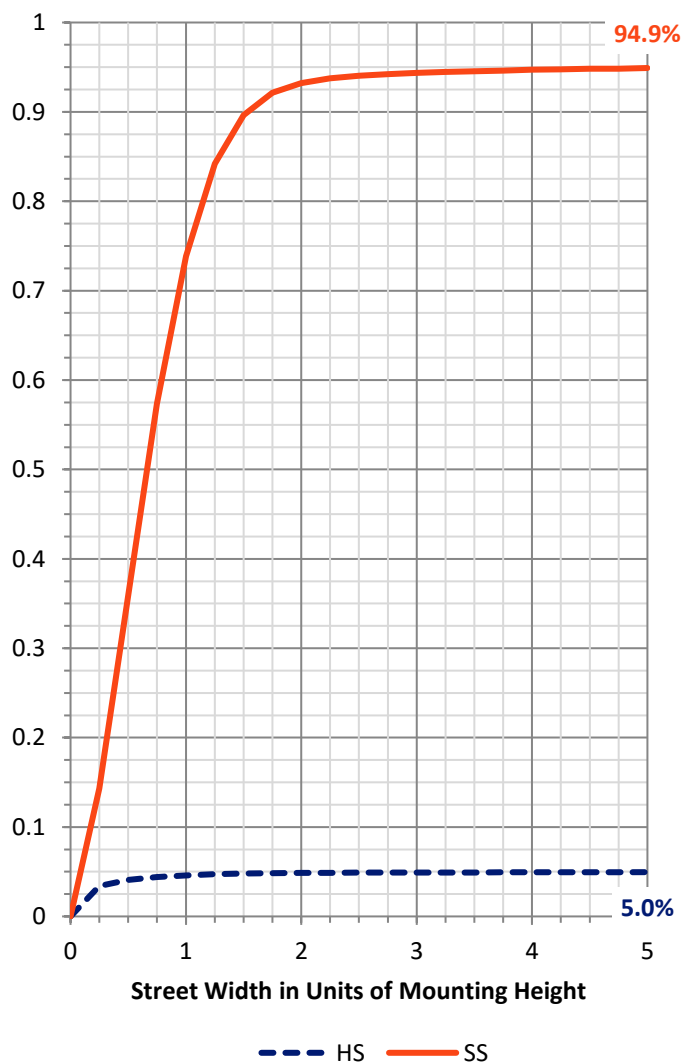
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	330.6	0.0	330.6
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	6298.4	0.0	6298.4
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	6629.0	0.0	6629.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.7	0.9
10°-20°	254.9	3.8
20°-30°	547.1	8.3
30°-40°	959.5	14.5
40°-50°	1487.4	22.4
50°-60°	1714.7	25.9
60°-70°	1204.6	18.2
70°-80°	375.3	5.7
80°-90°	24.8	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°	6629.0	100.0
0°-180°	6629.0	100.0

**Coefficient of Utilization**

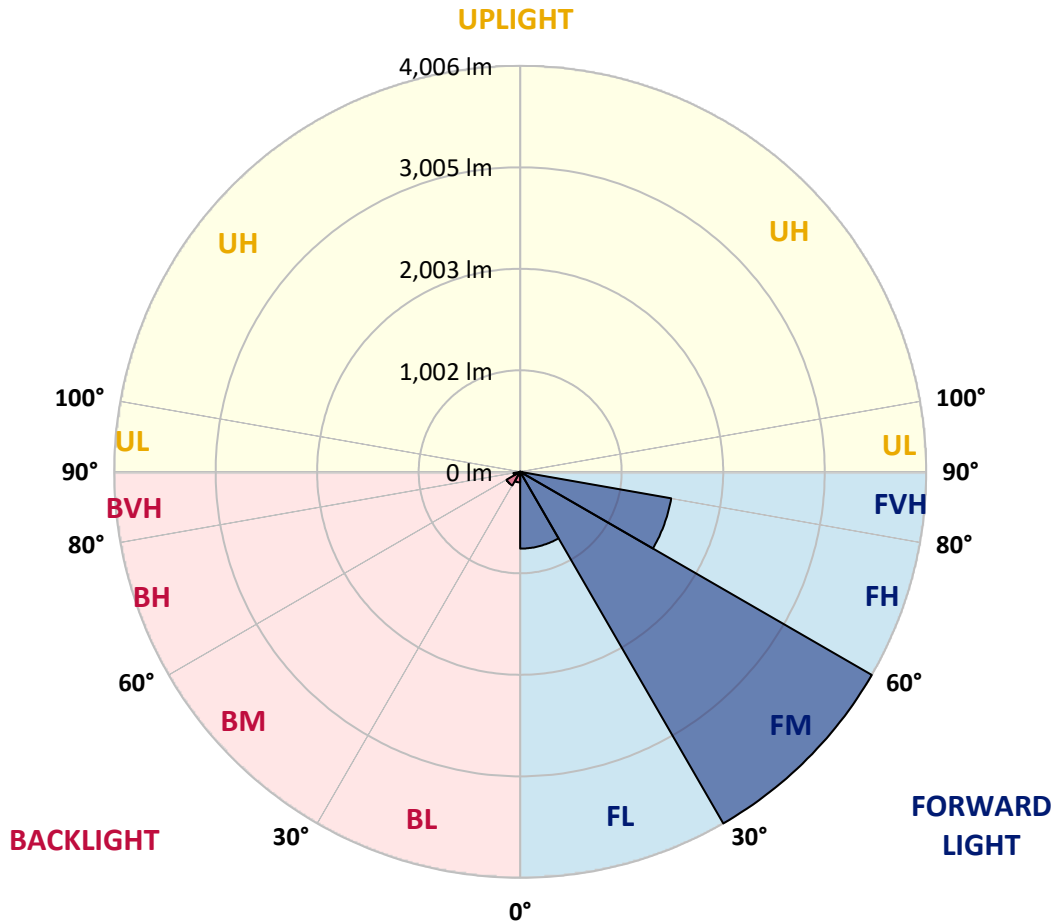


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	757.7	11.4			
FM (30°-60°)	4006.2	60.4			
FH (60°-80°)	1513.0	22.8			G1/1800
FVH (80°-90°)	21.4	0.3			G1/100
BL (0°-30°)	104.9	1.6	B0/110		
BM (30°-60°)	155.4	2.3	B0/220		
BH (60°-80°)	66.9	1.0	B0/110		G0/110
BVH (80°-90°)	3.4	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°	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3
2.5°	674.2	662.6	648.6	636.9	613.6	597.2	576.2	552.9	527.3	524.9	503.9
5°	944.9	909.9	909.9	879.5	844.5	781.6	723.2	650.9	597.2	592.6	536.6
7.5°	1222.5	1194.5	1178.2	1131.5	1075.5	1005.5	912.2	790.9	692.9	676.6	585.6
10°	1481.5	1460.5	1430.1	1392.8	1343.8	1229.5	1112.8	954.2	797.9	786.2	643.9
12.5°	1682.1	1656.4	1642.4	1626.1	1563.1	1472.1	1320.5	1119.8	933.2	907.5	702.2
15°	1833.7	1822.1	1808.1	1808.1	1775.4	1686.8	1530.4	1297.1	1063.8	1033.5	776.9
17.5°	1955.1	1941.1	1938.7	1952.7	1943.4	1880.4	1733.4	1467.5	1199.2	1175.8	853.9
20°	2090.4	2071.7	2071.7	2083.4	2081.0	2046.0	1917.7	1663.4	1357.8	1315.8	942.5
22.5°	2281.7	2270.0	2260.7	2242.0	2228.0	2195.3	2083.4	1854.7	1509.4	1469.8	1033.5
25°	2538.3	2524.3	2482.3	2449.6	2389.0	2340.0	2244.3	2025.0	1663.4	1619.1	1122.2
27.5°	2787.9	2759.9	2720.3	2678.3	2610.6	2526.6	2407.7	2186.0	1824.4	1777.7	1213.2
30°	3051.6	3030.6	2981.6	2913.9	2829.9	2736.6	2594.3	2379.7	2008.7	1957.4	1311.1
32.5°	3261.5	3228.9	3184.5	3119.2	3032.9	2967.6	2813.6	2592.0	2221.0	2153.4	1413.8
35°	3429.5	3403.8	3345.5	3282.5	3217.2	3198.5	3030.6	2764.6	2391.3	2328.3	1523.4
37.5°	3536.8	3511.2	3462.2	3399.2	3373.5	3406.2	3296.5	3000.2	2620.0	2540.6	1649.4
40°	3620.8	3590.5	3550.8	3522.8	3513.5	3604.5	3592.8	3305.9	2920.9	2874.3	1822.1
42.5°	3681.5	3651.1	3625.5	3623.1	3683.8	3861.1	3991.8	3732.8	3340.8	3245.2	2043.7
45°	3604.5	3578.8	3592.8	3674.5	3821.4	4101.4	4474.7	4337.0	3847.1	3779.5	2398.3
47.5°	3389.8	3373.5	3436.5	3585.8	3858.8	4248.4	4941.3	4999.6	4570.3	4467.7	2857.9
50°	3053.9	3051.6	3151.9	3354.8	3742.1	4304.4	5176.9	5636.5	5312.2	5207.2	3231.2
52.5°	2599.0	2589.6	2736.6	3018.9	3466.8	4199.4	5221.2	5890.8	5741.5	5617.9	3466.8
55°	2083.4	2062.4	2237.3	2547.6	3060.9	3893.8	5102.3	5946.8	5946.8	5834.8	3641.8
57.5°	1465.1	1497.8	1642.4	2015.7	2559.3	3436.5	4808.3	5895.5	6154.4	6058.8	3877.4
60°	923.9	937.9	1096.5	1397.5	1941.1	2825.3	4283.4	5673.8	6320.1	6264.1	4066.4
62.5°	531.9	576.2	655.6	884.2	1339.1	2123.0	3634.8	5274.9	6383.1	6359.7	4190.1
65°	324.3	329.0	366.3	499.3	823.5	1448.8	2909.2	4719.7	6240.8	6261.8	4166.7
67.5°	242.6	242.6	254.3	315.0	468.9	921.5	2146.4	4045.4	5785.8	5853.5	3947.4
70°	210.0	210.0	212.3	231.0	289.3	545.9	1418.5	3261.5	4959.9	4952.9	3261.5
72.5°	165.6	172.6	186.6	196.0	219.3	319.6	830.5	2279.3	3445.8	3527.5	2099.7
75°	133.0	135.3	154.0	170.3	184.3	217.0	391.9	1266.8	1808.1	1808.1	923.9
77.5°	102.7	107.3	119.0	135.3	154.0	154.0	163.3	489.9	699.9	676.6	273.0
80°	65.3	67.7	86.3	107.3	128.3	109.7	88.7	163.3	191.3	184.3	74.7
82.5°	39.7	42.0	56.0	86.3	86.3	60.7	56.0	67.7	60.7	56.0	30.3
85°	11.7	14.0	39.7	56.0	49.0	23.3	28.0	30.3	28.0	25.7	16.3
87.5°	2.3	2.3	11.7	14.0	11.7	11.7	9.3	11.7	11.7	11.7	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P573301

CATALOG NUMBER: ARCH-S-PA2-60-730-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3	485.3
2.5°	492.3	482.9	464.3	450.3	438.6	426.9	417.6	415.3	410.6	410.6	408.3
5°	513.3	492.3	457.3	433.9	415.3	398.9	384.9	370.9	366.3	361.6	363.9
7.5°	545.9	513.3	464.3	429.3	396.6	359.3	329.0	303.3	284.6	280.0	273.0
10°	587.9	538.9	475.9	419.9	359.3	294.0	252.0	226.3	217.0	205.3	207.6
12.5°	629.9	569.3	485.3	394.3	296.3	231.0	196.0	179.6	172.6	170.3	172.6
15°	678.9	601.9	480.6	347.6	238.0	186.6	165.6	158.6	154.0	154.0	151.6
17.5°	727.9	629.9	464.3	287.0	191.3	158.6	149.3	142.3	137.6	135.3	135.3
20°	781.6	655.6	426.9	228.6	158.6	144.6	135.3	126.0	121.3	121.3	121.3
22.5°	837.5	674.2	377.9	182.0	142.3	128.3	119.0	112.0	107.3	107.3	107.3
25°	886.5	683.6	319.6	151.6	130.6	116.6	107.3	100.3	98.0	95.7	95.7
27.5°	933.2	681.2	259.0	133.0	116.6	105.0	95.7	91.0	86.3	86.3	86.3
30°	979.9	667.2	205.3	121.3	107.3	93.3	86.3	81.7	79.3	77.0	77.0
32.5°	1019.5	643.9	161.0	112.0	98.0	84.0	77.0	72.3	72.3	70.0	70.0
35°	1059.2	608.9	135.3	105.0	88.7	77.0	70.0	67.7	65.3	65.3	65.3
37.5°	1101.2	564.6	119.0	95.7	79.3	70.0	65.3	63.0	60.7	58.3	58.3
40°	1152.5	520.3	112.0	88.7	72.3	63.0	58.3	56.0	53.7	53.7	53.7
42.5°	1234.2	482.9	105.0	79.3	65.3	58.3	53.7	49.0	49.0	46.7	46.7
45°	1388.1	468.9	98.0	72.3	60.7	51.3	49.0	44.3	42.0	42.0	42.0
47.5°	1588.8	471.3	91.0	65.3	56.0	46.7	44.3	42.0	37.3	37.3	37.3
50°	1754.4	459.6	84.0	60.7	49.0	44.3	39.7	37.3	35.0	35.0	35.0
52.5°	1819.7	438.6	77.0	56.0	46.7	39.7	37.3	35.0	32.7	32.7	32.7
55°	1885.1	429.3	70.0	49.0	42.0	39.7	35.0	32.7	30.3	28.0	28.0
57.5°	2004.0	433.9	63.0	46.7	39.7	37.3	32.7	28.0	23.3	21.0	21.0
60°	2067.0	417.6	58.3	42.0	37.3	35.0	28.0	21.0	16.3	14.0	14.0
62.5°	2013.4	370.9	53.7	39.7	35.0	30.3	21.0	16.3	11.7	7.0	7.0
65°	1864.1	305.6	49.0	37.3	30.3	23.3	18.7	11.7	7.0	4.7	4.7
67.5°	1675.1	240.3	44.3	35.0	28.0	21.0	16.3	9.3	4.7	2.3	2.3
70°	1353.1	172.6	42.0	32.7	25.7	18.7	14.0	9.3	4.7	2.3	2.3
72.5°	872.5	112.0	37.3	30.3	23.3	18.7	11.7	7.0	4.7	2.3	2.3
75°	403.6	74.7	35.0	28.0	23.3	16.3	11.7	9.3	4.7	2.3	2.3
77.5°	119.0	53.7	32.7	25.7	21.0	16.3	11.7	9.3	4.7	2.3	2.3
80°	49.0	37.3	25.7	23.3	21.0	16.3	11.7	9.3	4.7	2.3	2.3
82.5°	23.3	16.3	11.7	9.3	11.7	11.7	9.3	9.3	4.7	2.3	2.3
85°	11.7	7.0	4.7	4.7	4.7	2.3	2.3	4.7	4.7	2.3	2.3
87.5°	7.0	4.7	4.7	4.7	2.3	2.3	2.3	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)