

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: P573303

Luminaire Tested: **ARCH-S-PA2-60-730-U-T2U-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-16)
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-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 625mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5919 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

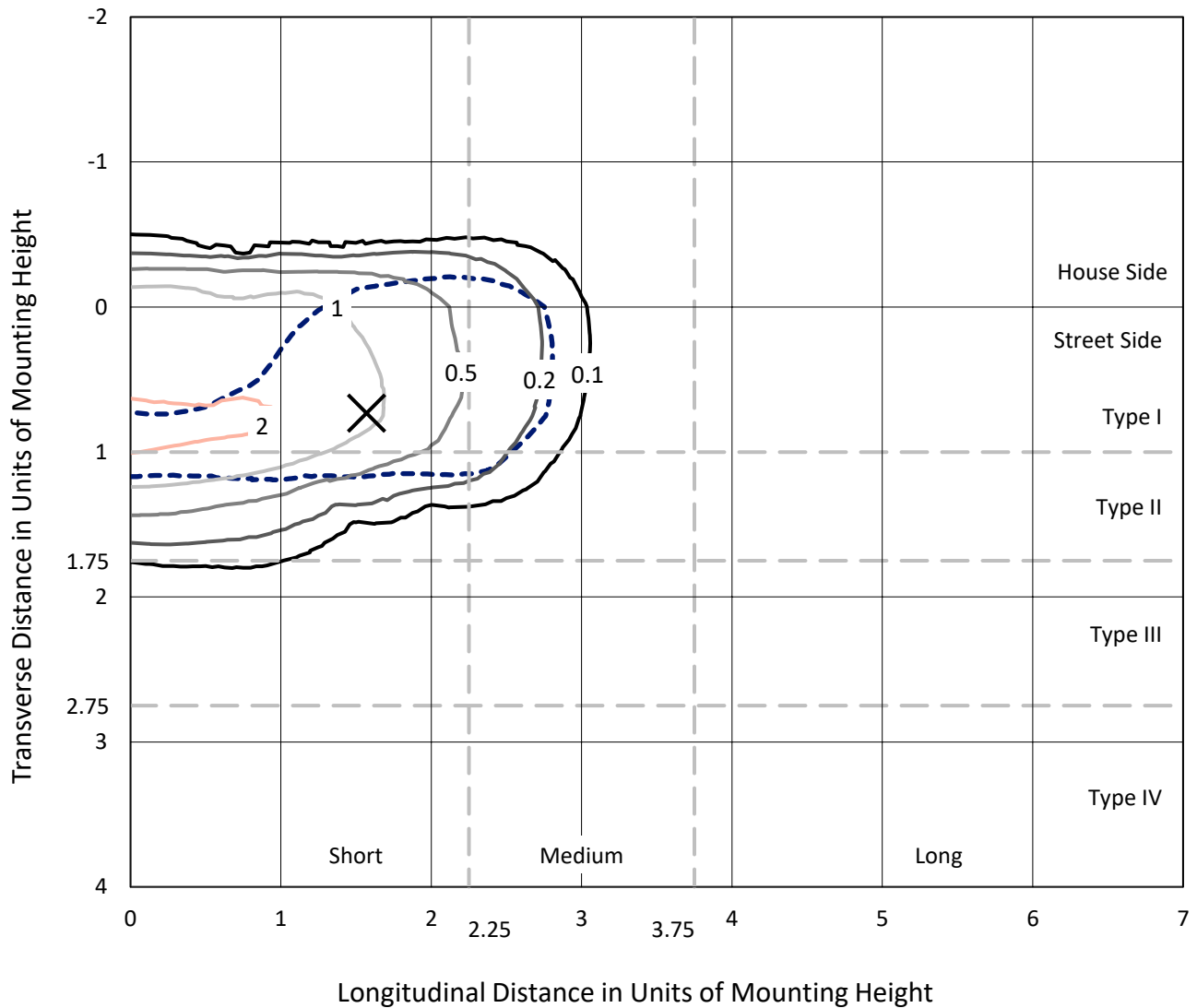
Input Watts (W): 63.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

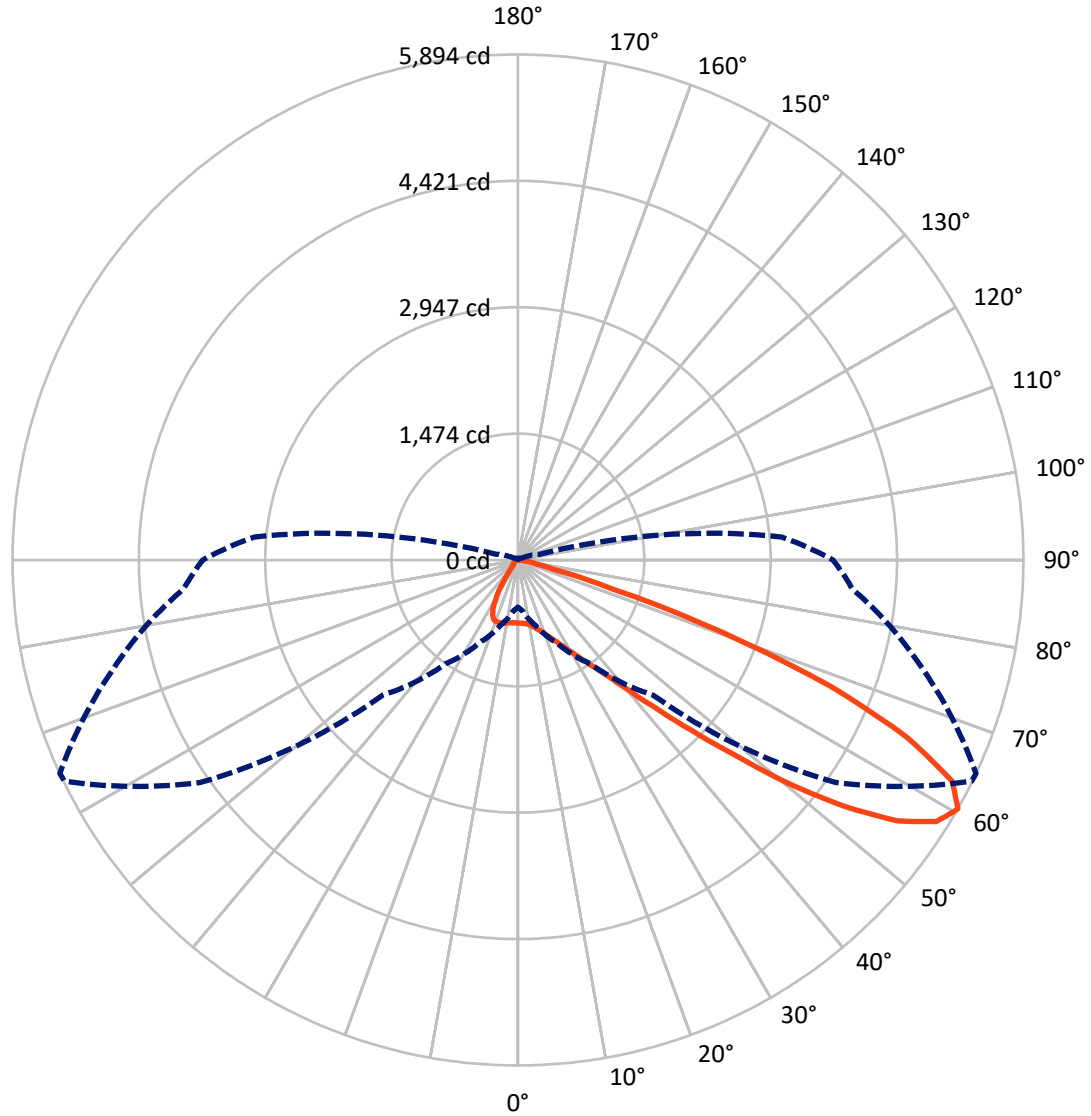
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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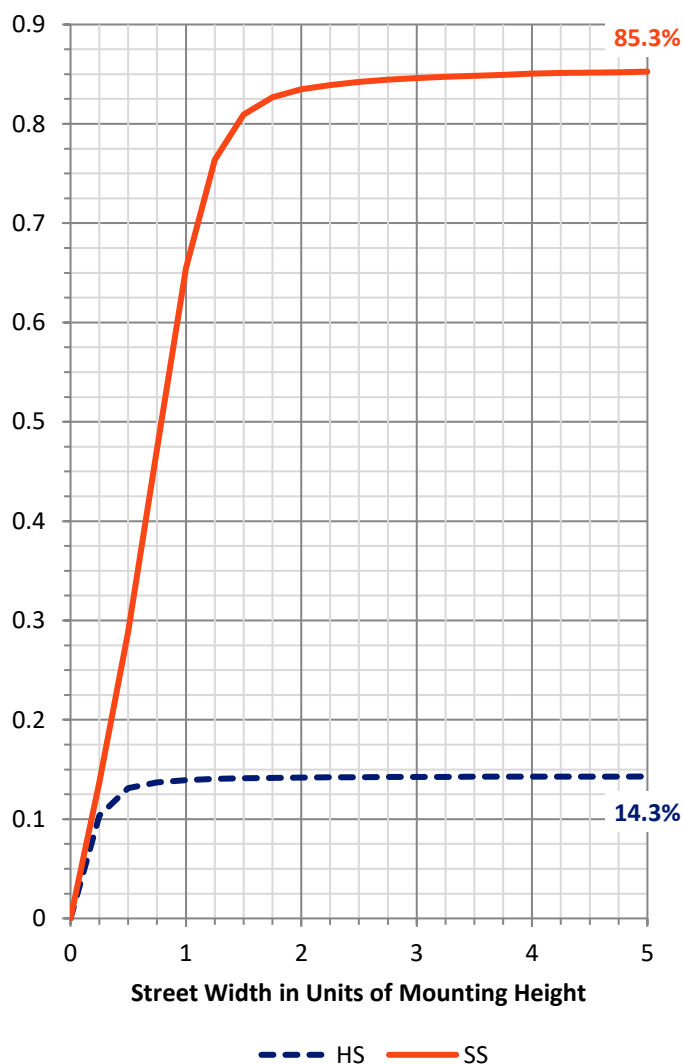
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	856.9	0.0	856.9
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	5062.1	0.0	5062.1
	% Fixture	85.5	0.0	85.5
Total	Lumens	5919.0	0.0	5919.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.7	1.2
10°-20°	197.7	3.3
20°-30°	335.9	5.7
30°-40°	693.0	11.7
40°-50°	1393.7	23.5
50°-60°	1705.5	28.8
60°-70°	1206.5	20.4
70°-80°	290.7	4.9
80°-90°	26.3	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°	5919.0	100.0
0°-180°	5919.0	100.0

Coefficient of Utilization

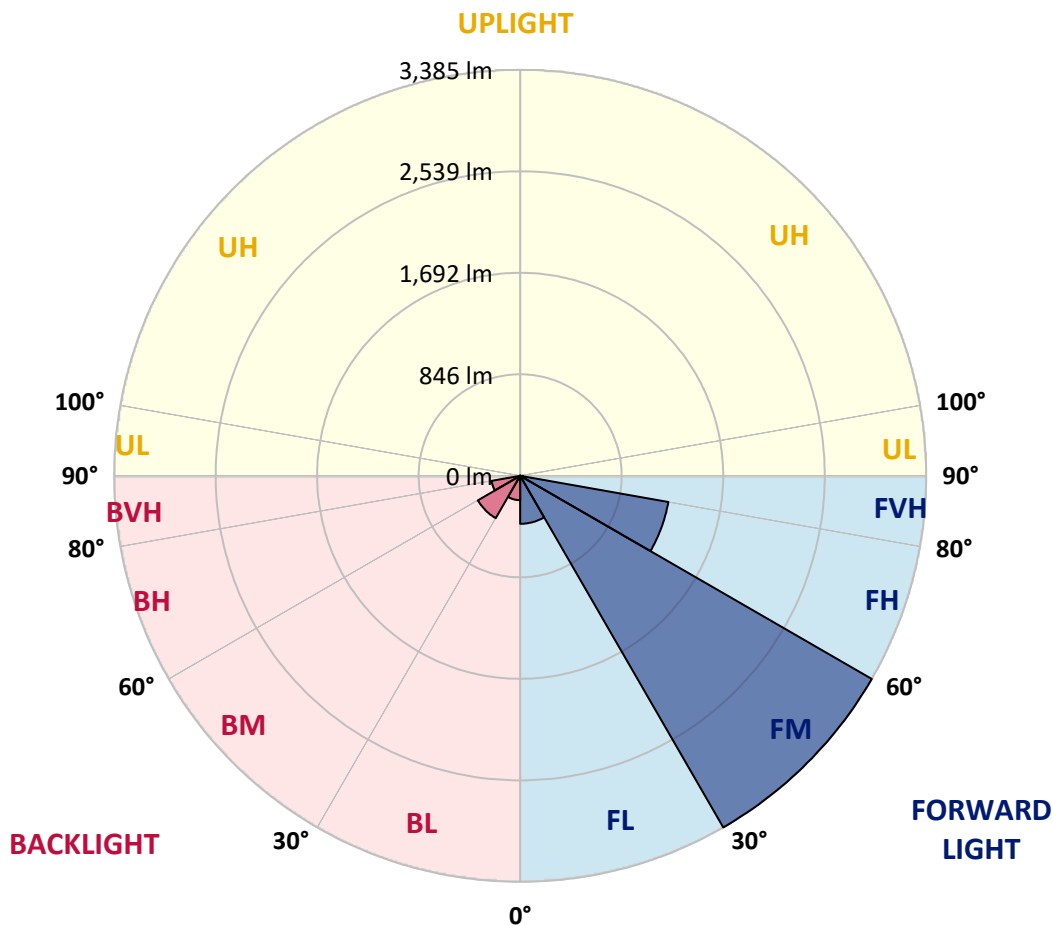


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	400.1	6.8			
FM (30°-60°)	3384.7	57.2			
FH (60°-80°)	1254.4	21.2			G1/1800
FVH (80°-90°)	22.9	0.4			G1/100
BL (0°-30°)	203.2	3.4	B1/500		
BM (30°-60°)	407.4	6.9	B1/1000		
BH (60°-80°)	242.9	4.1	B1/500		G1/500
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: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	737.4	737.4	737.4	737.4	737.4	737.4	737.4	737.4	737.4	737.4	737.4
2.5°	739.7	737.4	737.4	737.4	739.7	739.7	742.0	737.4	737.4	737.4	737.4
5°	735.0	732.7	732.7	735.0	737.4	737.4	742.0	742.0	742.0	744.4	744.4
7.5°	744.4	739.7	739.7	742.0	744.4	744.4	749.0	751.4	751.4	756.0	758.4
10°	756.0	753.7	753.7	758.4	763.0	763.0	770.0	770.0	770.0	774.7	777.0
12.5°	772.4	770.0	770.0	777.0	784.0	788.7	793.4	795.7	798.0	798.0	798.0
15°	795.7	793.4	793.4	800.4	809.7	821.4	828.4	828.4	833.0	830.7	821.4
17.5°	828.4	826.0	828.4	833.0	844.7	856.4	870.4	872.7	870.4	865.7	851.7
20°	882.0	875.0	879.7	891.4	891.4	898.4	917.0	924.0	926.4	912.4	886.7
22.5°	938.0	938.0	942.7	956.7	947.4	956.7	973.0	984.7	989.4	977.7	935.7
25°	1043.0	1047.7	1040.7	1036.0	1012.7	1017.4	1038.4	1061.7	1061.7	1052.4	991.7
27.5°	1274.0	1269.4	1220.4	1152.7	1092.0	1096.7	1117.7	1148.0	1150.4	1129.4	1047.7
30°	1605.4	1610.1	1514.4	1360.4	1227.4	1192.4	1215.7	1250.7	1255.4	1220.4	1120.0
32.5°	2123.4	2083.7	1906.4	1701.1	1451.4	1325.4	1334.7	1372.0	1386.0	1355.7	1234.4
35°	2793.1	2699.8	2433.8	2179.4	1817.7	1563.4	1491.1	1530.7	1537.7	1521.4	1376.7
37.5°	3192.1	3117.4	2944.8	2713.8	2289.1	1880.7	1696.4	1736.1	1729.1	1696.4	1519.1
40°	3439.5	3397.5	3304.1	3196.8	2926.1	2380.1	2034.7	2002.1	2004.4	1957.7	1750.1
42.5°	3579.5	3542.1	3507.1	3535.1	3455.8	3285.4	2524.8	2375.4	2361.4	2272.7	2018.4
45°	3586.5	3530.5	3572.5	3735.8	3861.8	4088.1	3164.1	2818.8	2825.8	2678.8	2352.1
47.5°	3318.1	3273.8	3395.1	3714.8	4132.5	4613.2	3908.5	3425.5	3392.8	3103.4	2690.4
50°	2788.4	2786.1	2947.1	3399.8	4132.5	4883.8	4706.5	4137.1	4102.1	3546.8	2998.4
52.5°	2207.4	2251.7	2361.4	2790.8	3752.1	4858.2	5294.5	4872.2	4774.2	3941.1	3255.1
55°	1717.4	1701.1	1834.1	2130.4	2975.1	4414.8	5485.9	5450.9	5369.2	4291.2	3481.5
57.5°	1054.7	1115.4	1295.0	1558.7	2165.4	3472.1	5210.5	5803.2	5754.2	4617.8	3717.1
60°	548.4	595.0	788.7	1064.0	1479.4	2226.1	4522.2	5884.9	5894.2	4881.5	3917.8
62.5°	345.3	343.0	431.7	746.7	952.0	1250.7	3511.8	5595.5	5684.2	5084.5	4109.1
65°	259.0	261.3	296.3	494.7	646.4	653.4	2083.7	4839.5	4986.5	5138.2	4174.5
67.5°	240.3	242.7	259.0	324.3	485.4	436.3	917.0	3731.1	3936.5	4643.5	3922.5
70°	214.7	217.0	242.7	268.3	366.3	319.7	413.0	2247.1	2531.8	3369.5	3138.4
72.5°	168.0	172.7	203.0	254.3	273.0	242.7	287.0	994.0	1159.7	1852.7	1796.7
75°	123.7	126.0	154.0	196.0	240.3	172.7	221.7	394.3	431.7	695.4	592.7
77.5°	86.3	86.3	107.3	147.0	200.7	121.3	158.7	212.3	217.0	259.0	170.3
80°	53.7	56.0	67.7	100.3	123.7	116.7	98.0	142.3	142.3	135.3	70.0
82.5°	30.3	32.7	46.7	67.7	84.0	79.3	63.0	81.7	84.0	86.3	39.7
85°	14.0	16.3	28.0	42.0	49.0	37.3	37.3	42.0	42.0	56.0	23.3
87.5°	2.3	2.3	14.0	18.7	16.3	18.7	18.7	23.3	23.3	28.0	11.7
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°	737.4	737.4	737.4	737.4	737.4	737.4	737.4	737.4	737.4	737.4	737.4
2.5°	735.0	735.0	735.0	732.7	732.7	730.4	725.7	725.7	725.7	725.7	728.0
5°	744.4	742.0	739.7	732.7	728.0	718.7	709.4	707.0	700.0	700.0	702.4
7.5°	756.0	756.0	749.0	737.4	725.7	709.4	693.0	681.4	669.7	667.4	665.0
10°	777.0	772.4	765.4	744.4	725.7	700.0	674.4	644.0	620.7	609.0	604.4
12.5°	793.4	791.0	777.0	753.7	723.4	683.7	625.4	555.4	499.4	469.0	469.0
15°	816.7	812.0	791.0	758.4	716.4	623.0	504.0	396.7	336.0	303.3	298.7
17.5°	840.0	830.7	805.0	760.7	686.0	513.4	352.3	254.3	212.3	196.0	191.3
20°	868.0	851.7	814.4	763.0	611.4	373.3	228.7	170.3	154.0	147.0	149.3
22.5°	905.4	877.4	823.7	749.0	499.4	242.7	161.0	137.7	128.3	121.3	121.3
25°	952.0	912.4	840.0	709.4	361.7	163.3	128.3	114.3	105.0	100.3	98.0
27.5°	994.0	945.0	856.4	639.4	231.0	128.3	107.3	95.7	86.3	84.0	81.7
30°	1050.0	982.4	872.7	527.4	151.7	105.0	91.0	79.3	72.3	70.0	70.0
32.5°	1145.7	1054.7	903.0	401.3	114.3	91.0	77.0	67.7	63.0	60.7	60.7
35°	1257.7	1143.4	928.7	280.0	98.0	77.0	65.3	58.3	56.0	53.7	53.7
37.5°	1374.4	1248.4	933.4	177.3	86.3	67.7	58.3	53.7	49.0	49.0	49.0
40°	1584.4	1432.7	912.4	119.0	74.7	60.7	51.3	49.0	44.3	44.3	44.3
42.5°	1829.4	1656.7	858.7	95.7	67.7	53.7	49.0	44.3	39.7	39.7	37.3
45°	2146.7	1911.1	767.7	84.0	60.7	49.0	44.3	39.7	37.3	35.0	35.0
47.5°	2445.4	2200.4	681.4	74.7	56.0	46.7	39.7	35.0	32.7	32.7	32.7
50°	2730.1	2422.1	581.0	70.0	51.3	44.3	37.3	32.7	30.3	28.0	28.0
52.5°	2935.4	2597.1	487.7	63.0	46.7	39.7	35.0	30.3	25.7	23.3	23.3
55°	3164.1	2774.4	403.7	56.0	44.3	37.3	30.3	25.7	21.0	18.7	18.7
57.5°	3420.8	2947.1	326.7	51.3	42.0	32.7	25.7	21.0	16.3	14.0	14.0
60°	3675.1	3084.8	261.3	46.7	37.3	30.3	23.3	16.3	11.7	9.3	9.3
62.5°	3929.5	3178.1	200.7	42.0	35.0	25.7	18.7	11.7	7.0	4.7	4.7
65°	4034.5	3152.4	149.3	37.3	30.3	21.0	16.3	11.7	7.0	4.7	4.7
67.5°	3742.8	2835.1	105.0	37.3	28.0	21.0	14.0	9.3	4.7	2.3	2.3
70°	2921.4	2188.7	77.0	37.3	28.0	21.0	14.0	9.3	4.7	2.3	2.3
72.5°	1656.7	1218.0	58.3	32.7	25.7	18.7	14.0	9.3	4.7	2.3	2.3
75°	590.4	392.0	44.3	30.3	23.3	16.3	14.0	9.3	4.7	2.3	2.3
77.5°	142.3	100.3	35.0	25.7	21.0	16.3	11.7	9.3	7.0	2.3	2.3
80°	58.3	42.0	28.0	21.0	16.3	14.0	11.7	9.3	4.7	2.3	2.3
82.5°	25.7	21.0	11.7	11.7	9.3	9.3	9.3	9.3	4.7	2.3	2.3
85°	11.7	9.3	4.7	4.7	2.3	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)