

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: P573386

Luminaire Tested: **ARCH-S-PA2-70-730-U-T3-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-18)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-70-730-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 725mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7256 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

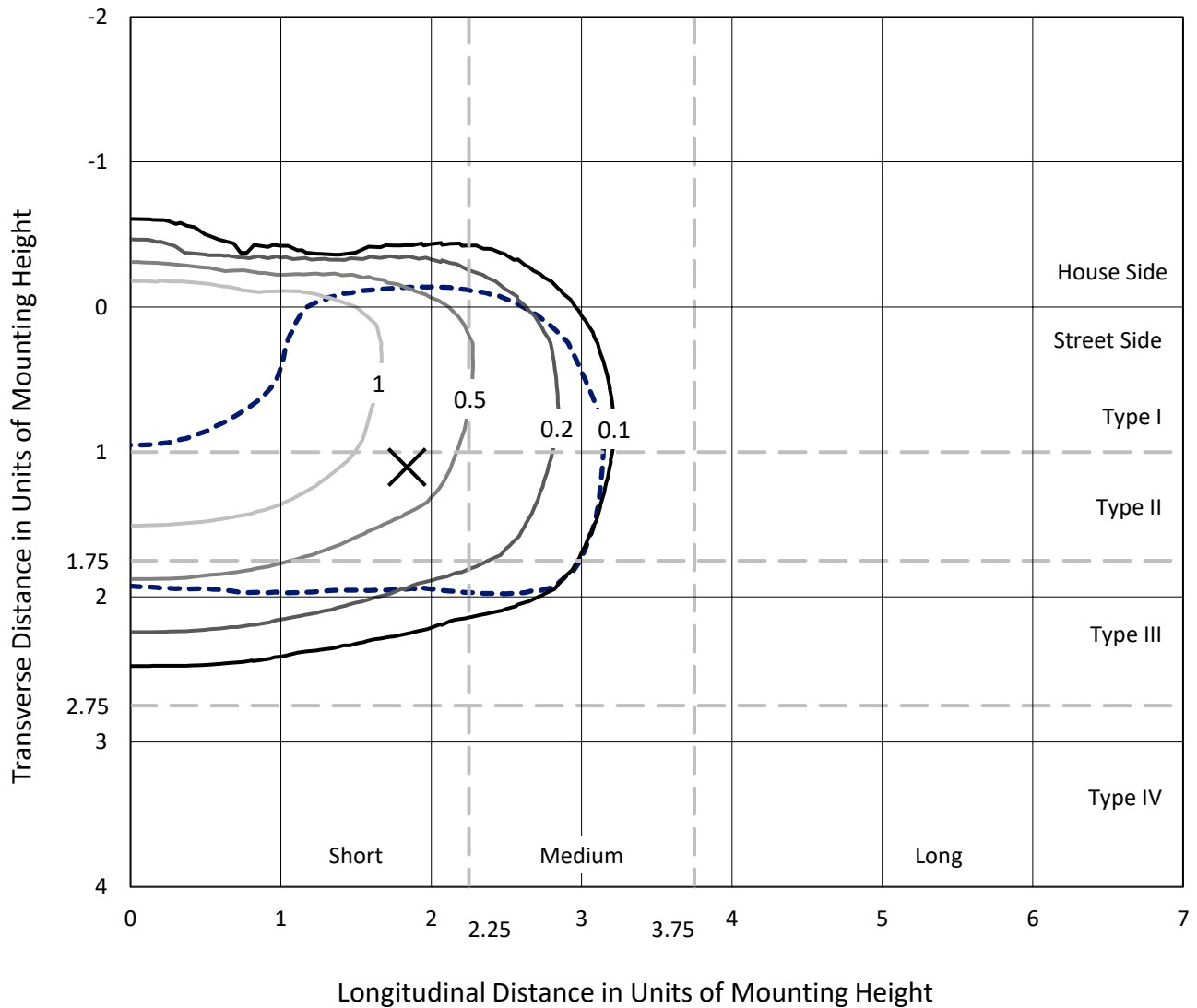
Input Watts (W): 73.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

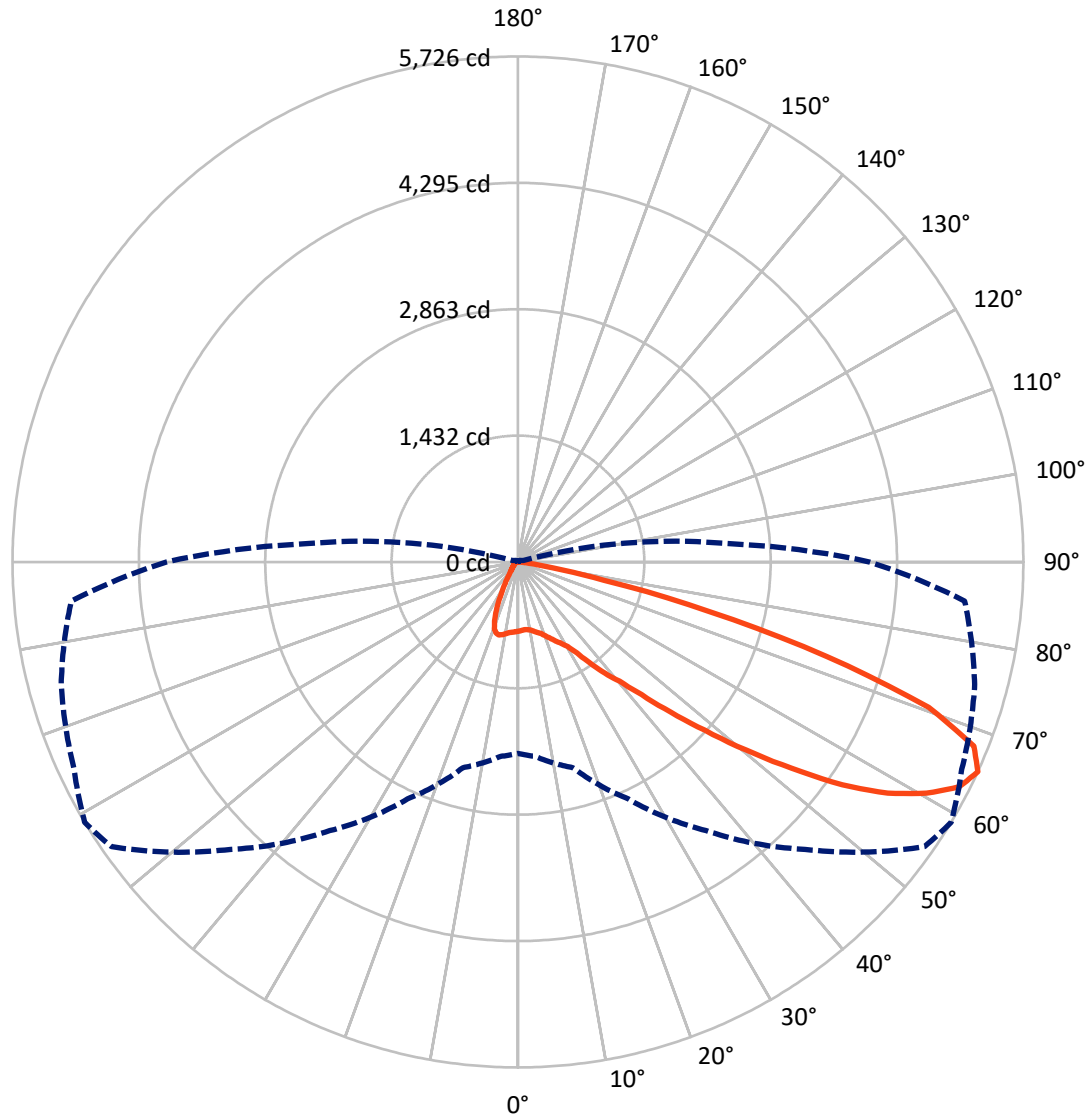
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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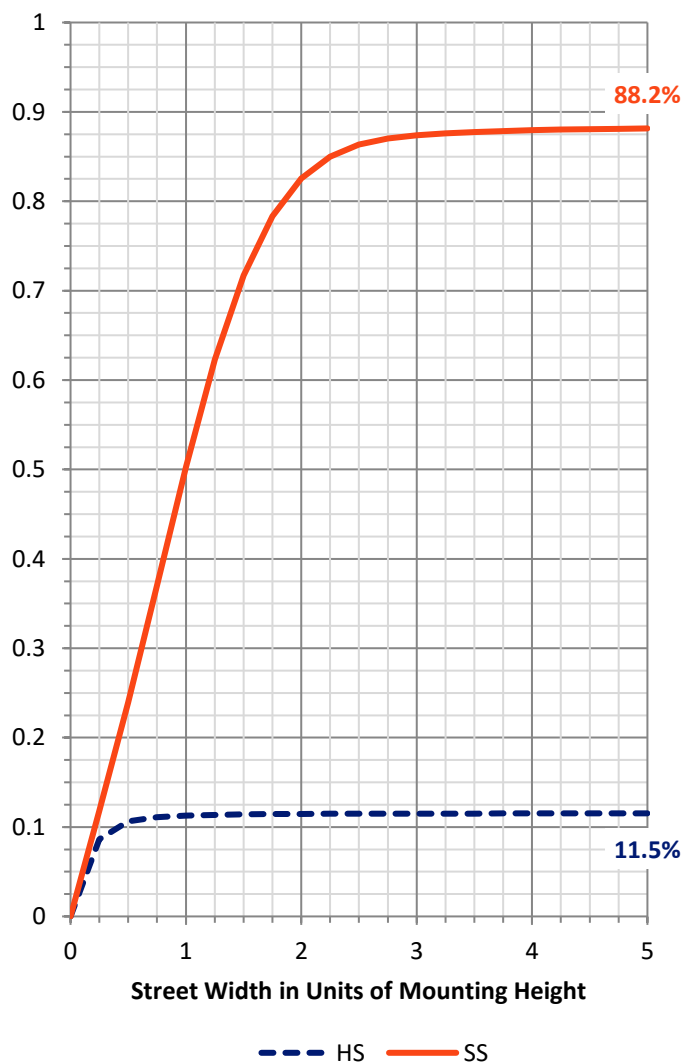
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	846.5	0.0	846.5
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	6409.5	0.0	6409.5
	% Fixture	88.3	0.0	88.3
Total	Lumens	7256.0	0.0	7256.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	1.0
10°-20°	210.5	2.9
20°-30°	357.5	4.9
30°-40°	633.3	8.7
40°-50°	1194.6	16.5
50°-60°	2021.3	27.9
60°-70°	2101.5	29.0
70°-80°	630.2	8.7
80°-90°	33.0	0.5
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°	7256.0	100.0
0°-180°	7256.0	100.0

Coefficient of Utilization



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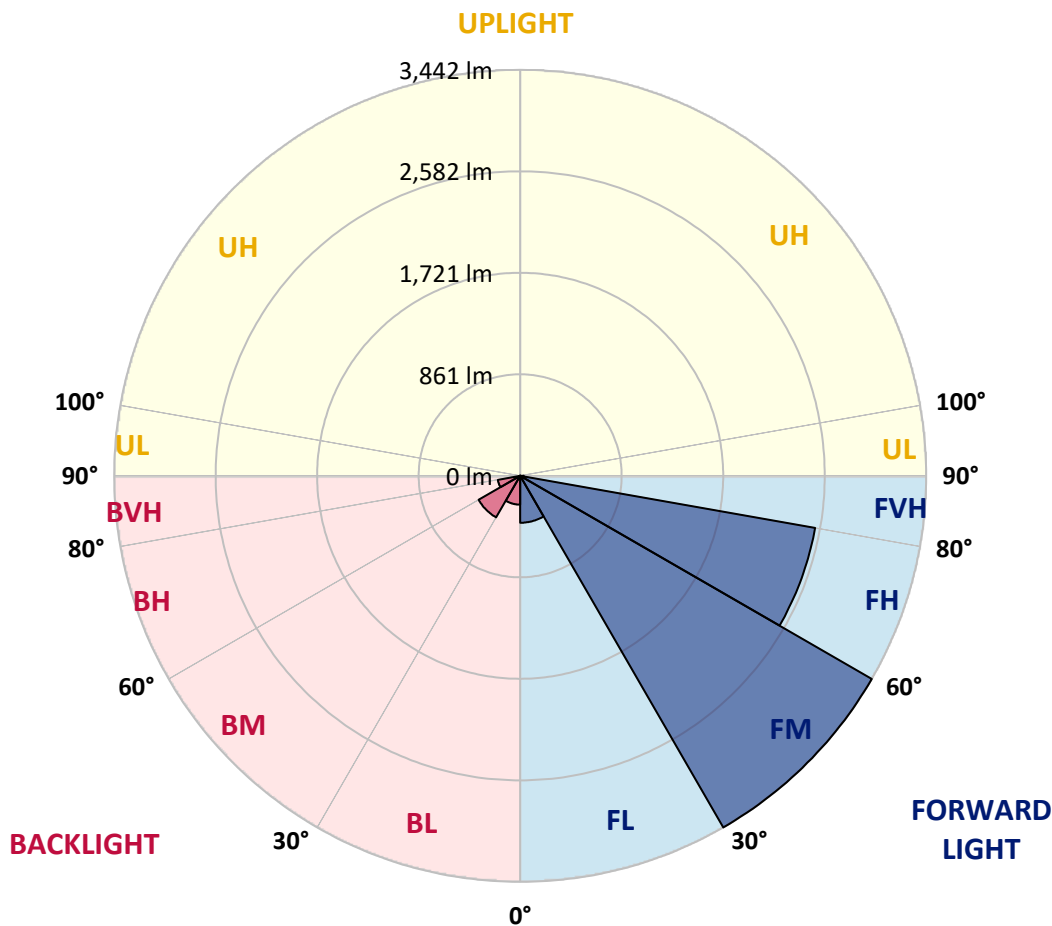
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	397.9	5.5			
FM (30°-60°)	3442.3	47.4			
FH (60°-80°)	2539.1	35.0			G2/5000
FVH (80°-90°)	30.3	0.4			G1/100
BL (0°-30°)	244.2	3.4	B1/500		
BM (30°-60°)	406.9	5.6	B1/1000		
BH (60°-80°)	192.6	2.7	B1/500		G1/500
BVH (80°-90°)	2.8	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°	55°	59°	65°	75°	85°
0°	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1
2.5°	763.0	760.3	760.3	765.6	768.2	770.9	776.2	776.2	776.2	781.4	784.1
5°	726.0	726.0	728.6	733.9	744.5	752.4	768.2	768.2	773.5	786.7	792.0
7.5°	702.2	702.2	704.9	715.4	728.6	747.1	768.2	768.2	773.5	781.4	799.9
10°	699.6	697.0	702.2	712.8	728.6	752.4	776.2	776.2	784.1	799.9	823.7
12.5°	707.5	704.9	710.2	720.7	736.6	760.3	792.0	792.0	805.2	823.7	855.4
15°	712.8	710.2	715.4	728.6	747.1	776.2	813.1	813.1	829.0	852.7	897.6
17.5°	728.6	726.0	728.6	739.2	757.7	789.4	836.9	836.9	852.7	892.3	942.5
20°	799.9	797.3	781.4	776.2	778.8	807.8	868.6	868.6	895.0	942.5	1005.8
22.5°	947.8	937.2	908.2	860.6	829.0	839.5	908.2	908.2	937.2	1000.6	1071.8
25°	1145.8	1137.8	1095.6	1013.8	924.0	897.6	953.0	953.0	992.6	1069.2	1148.4
27.5°	1370.2	1354.3	1314.7	1201.2	1079.8	992.6	1008.5	1008.5	1042.8	1127.3	1211.8
30°	1565.5	1560.2	1515.4	1420.3	1277.8	1148.4	1093.0	1093.0	1111.4	1188.0	1277.8
32.5°	1745.0	1729.2	1692.2	1602.5	1470.5	1338.5	1227.6	1227.6	1227.6	1291.0	1396.6
35°	1943.0	1932.5	1887.6	1797.8	1671.1	1515.4	1415.0	1415.0	1404.5	1457.3	1576.1
37.5°	2146.3	2119.9	2098.8	2006.4	1879.7	1745.0	1623.6	1623.6	1599.8	1626.2	1713.4
40°	2399.8	2399.8	2352.2	2267.8	2149.0	2006.4	1837.4	1837.4	1776.7	1768.8	1882.3
42.5°	2695.4	2687.5	2647.9	2568.7	2455.2	2323.2	2109.4	2109.4	2053.9	2048.6	2185.9
45°	3036.0	3030.7	2983.2	2917.2	2838.0	2692.8	2481.6	2481.6	2426.2	2394.5	2552.9
47.5°	3347.5	3329.1	3313.2	3321.1	3276.3	3112.6	2914.6	2914.6	2848.6	2845.9	2970.0
50°	3561.4	3550.8	3606.3	3659.1	3743.5	3640.6	3405.6	3405.6	3347.5	3302.7	3466.3
52.5°	3701.3	3696.0	3806.9	3957.4	4131.6	4123.7	3915.1	3915.1	3880.8	3843.9	3888.7
55°	3756.7	3756.7	3888.7	4165.9	4472.2	4604.2	4506.5	4506.5	4459.0	4329.6	4237.2
57.5°	3690.7	3682.8	3854.4	4216.1	4683.4	4955.3	4997.5	4997.5	4942.1	4738.8	4635.9
60°	3410.9	3416.2	3619.5	4076.2	4667.5	5097.9	5369.8	5369.8	5319.6	5116.3	4963.2
62.5°	2888.2	2933.1	3146.9	3643.2	4329.6	4984.3	5583.6	5583.6	5610.0	5390.9	5200.8
65°	2170.1	2209.7	2413.0	2962.1	3714.5	4604.2	5623.2	5623.2	5726.2	5549.3	5356.6
67.5°	1320.0	1333.2	1581.4	1995.8	2735.1	3835.9	5346.0	5346.0	5570.4	5443.7	5126.9
70°	615.1	649.4	770.9	1090.3	1731.8	2824.8	4620.0	4620.0	4936.8	4794.3	4400.9
72.5°	240.2	250.8	327.4	504.2	918.7	1776.7	3447.9	3447.9	3659.1	3561.4	3125.8
75°	118.8	126.7	158.4	240.2	419.8	733.9	2106.7	2106.7	2244.0	2083.0	1570.8
77.5°	87.1	87.1	105.6	147.8	229.7	271.9	887.0	887.0	995.3	939.8	607.2
80°	58.1	63.4	73.9	100.3	145.2	132.0	335.3	335.3	398.6	332.6	187.4
82.5°	34.3	37.0	55.4	71.3	97.7	76.6	113.5	113.5	126.7	137.3	92.4
85°	18.5	18.5	37.0	52.8	52.8	34.3	39.6	39.6	44.9	52.8	55.4
87.5°	5.3	5.3	23.8	31.7	21.1	18.5	21.1	21.1	21.1	23.8	29.0
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°	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1	784.1
2.5°	786.7	786.7	789.4	789.4	792.0	792.0	792.0	792.0	794.6	797.3	797.3
5°	794.6	797.3	797.3	797.3	797.3	792.0	789.4	786.7	786.7	789.4	789.4
7.5°	815.8	818.4	815.8	810.5	802.6	792.0	781.4	781.4	778.8	781.4	778.8
10°	847.4	847.4	844.8	831.6	818.4	797.3	776.2	760.3	749.8	747.1	741.8
12.5°	887.0	887.0	879.1	855.4	831.6	792.0	736.6	683.8	641.5	623.0	617.8
15°	926.6	926.6	916.1	881.8	834.2	739.2	623.0	512.2	448.8	422.4	406.6
17.5°	974.2	968.9	950.4	902.9	805.2	633.6	446.2	332.6	282.5	258.7	258.7
20°	1024.3	1019.0	984.7	905.5	731.3	454.1	290.4	229.7	216.5	211.2	211.2
22.5°	1079.8	1066.6	1013.8	884.4	575.5	308.9	219.1	203.3	198.0	195.4	195.4
25°	1124.6	1103.5	1034.9	826.3	411.8	216.5	192.7	187.4	176.9	174.2	169.0
27.5°	1159.0	1127.3	1042.8	702.2	271.9	179.5	171.6	161.0	150.5	139.9	139.9
30°	1203.8	1164.2	1048.1	546.5	184.8	155.8	147.8	134.6	121.4	110.9	110.9
32.5°	1293.6	1235.5	1050.7	382.8	153.1	137.3	121.4	105.6	92.4	87.1	84.5
35°	1391.3	1312.1	1021.7	248.2	134.6	116.2	97.7	84.5	71.3	68.6	68.6
37.5°	1499.5	1425.6	958.3	169.0	118.8	97.7	79.2	66.0	58.1	55.4	55.4
40°	1681.7	1594.6	852.7	134.6	103.0	81.8	66.0	55.4	50.2	47.5	47.5
42.5°	1943.0	1792.6	720.7	116.2	89.8	68.6	52.8	44.9	42.2	39.6	39.6
45°	2244.0	2014.3	567.6	105.6	79.2	58.1	44.9	39.6	37.0	34.3	34.3
47.5°	2589.8	2244.0	448.8	92.4	68.6	50.2	39.6	34.3	31.7	29.0	29.0
50°	2917.2	2423.5	337.9	81.8	60.7	42.2	34.3	31.7	29.0	26.4	26.4
52.5°	3186.5	2545.0	256.1	71.3	52.8	37.0	31.7	29.0	23.8	23.8	23.8
55°	3511.2	2640.0	195.4	63.4	47.5	34.3	29.0	23.8	21.1	18.5	18.5
57.5°	3793.7	2674.3	142.6	55.4	42.2	31.7	26.4	21.1	15.8	13.2	13.2
60°	3983.8	2645.3	103.0	47.5	37.0	26.4	21.1	15.8	10.6	7.9	7.9
62.5°	4118.4	2581.9	79.2	42.2	31.7	23.8	18.5	13.2	7.9	5.3	5.3
65°	3983.8	2386.6	63.4	37.0	26.4	21.1	13.2	10.6	5.3	2.6	2.6
67.5°	3445.2	2001.1	50.2	31.7	23.8	18.5	13.2	7.9	2.6	0.0	0.0
70°	2476.3	1428.2	42.2	29.0	21.1	15.8	10.6	5.3	2.6	0.0	0.0
72.5°	1380.7	736.6	39.6	26.4	21.1	15.8	10.6	5.3	2.6	0.0	0.0
75°	559.7	253.4	37.0	26.4	21.1	13.2	10.6	5.3	2.6	0.0	0.0
77.5°	163.7	87.1	31.7	23.8	21.1	15.8	10.6	5.3	2.6	0.0	0.0
80°	58.1	39.6	23.8	21.1	15.8	13.2	10.6	7.9	2.6	0.0	0.0
82.5°	26.4	15.8	10.6	7.9	7.9	7.9	7.9	5.3	2.6	0.0	0.0
85°	10.6	7.9	5.3	2.6	2.6	2.6	2.6	2.6	2.6	0.0	0.0
87.5°	7.9	5.3	2.6	2.6	2.6	2.6	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)