

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: P573269

Luminaire Tested: **ARCH-S-PA2-50-827-U-T3-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573269
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-PA2-50-827-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 520mA 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: 4384 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

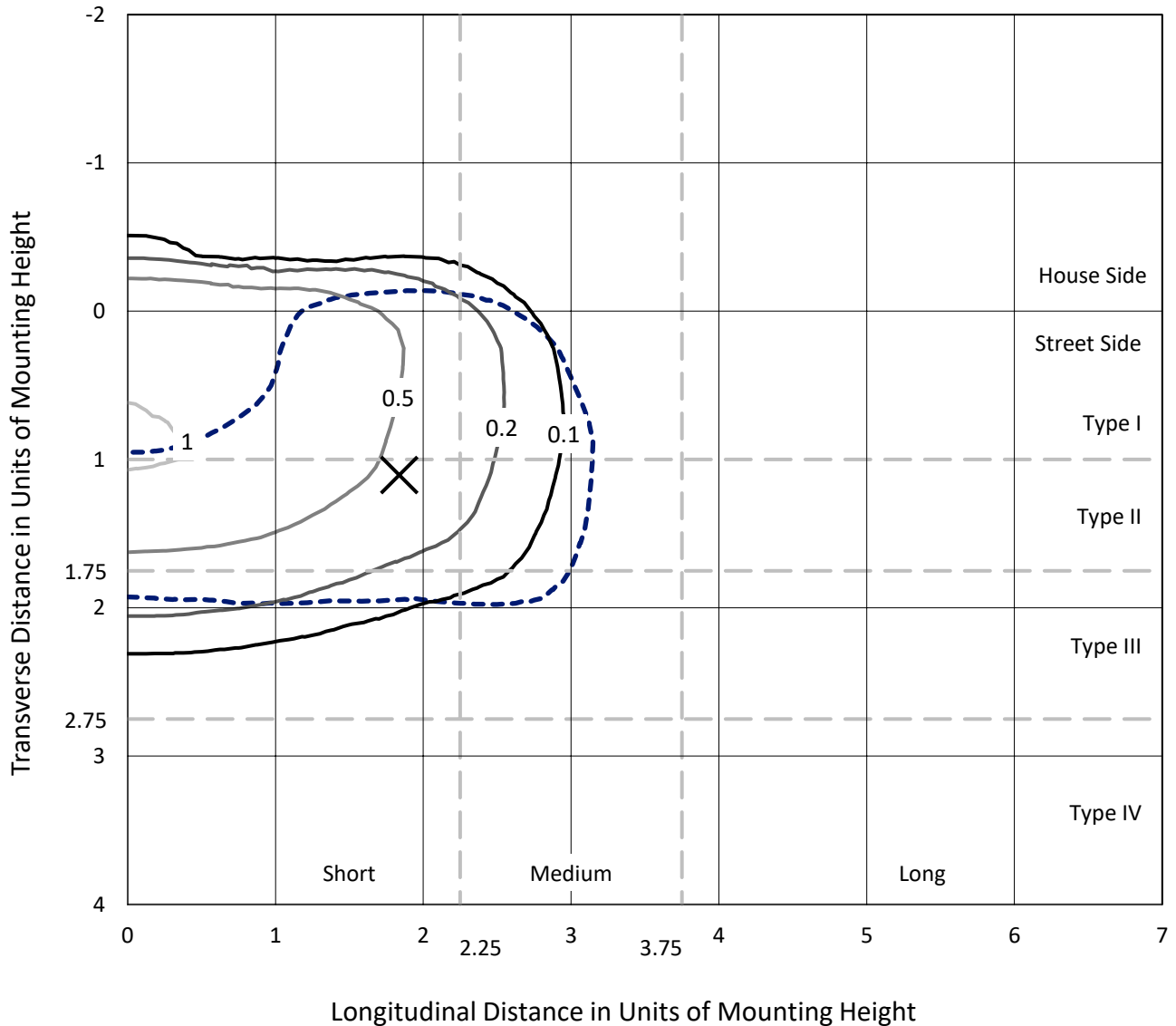
Input Watts (W): 53.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

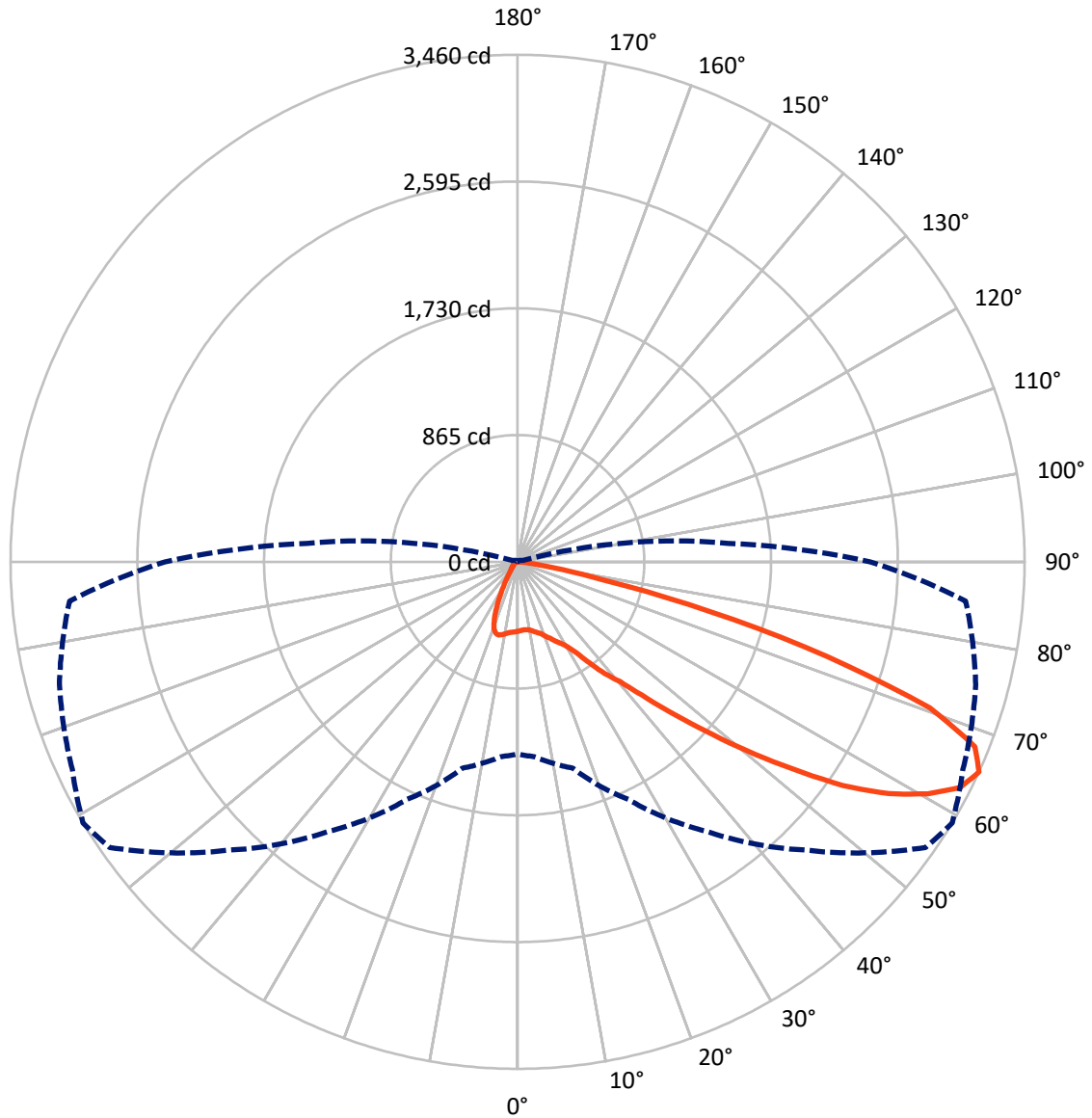
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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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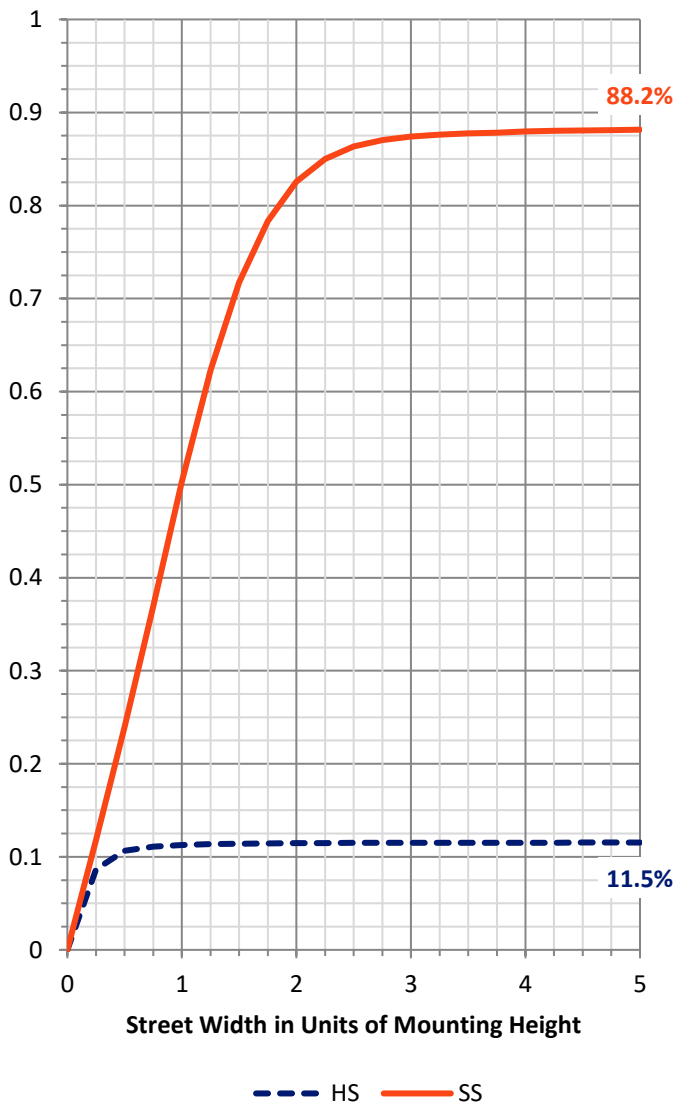
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	511.4	0.0	511.4
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	3872.6	0.0	3872.6
	% Fixture	88.3	0.0	88.3
Total	Lumens	4384.0	0.0	4384.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.8	1.0
10°-20°	127.2	2.9
20°-30°	216.0	4.9
30°-40°	382.6	8.7
40°-50°	721.8	16.5
50°-60°	1221.2	27.9
60°-70°	1269.7	29.0
70°-80°	380.8	8.7
80°-90°	20.0	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°	4384.0	100.0
0°-180°	4384.0	100.0

Coefficient of Utilization



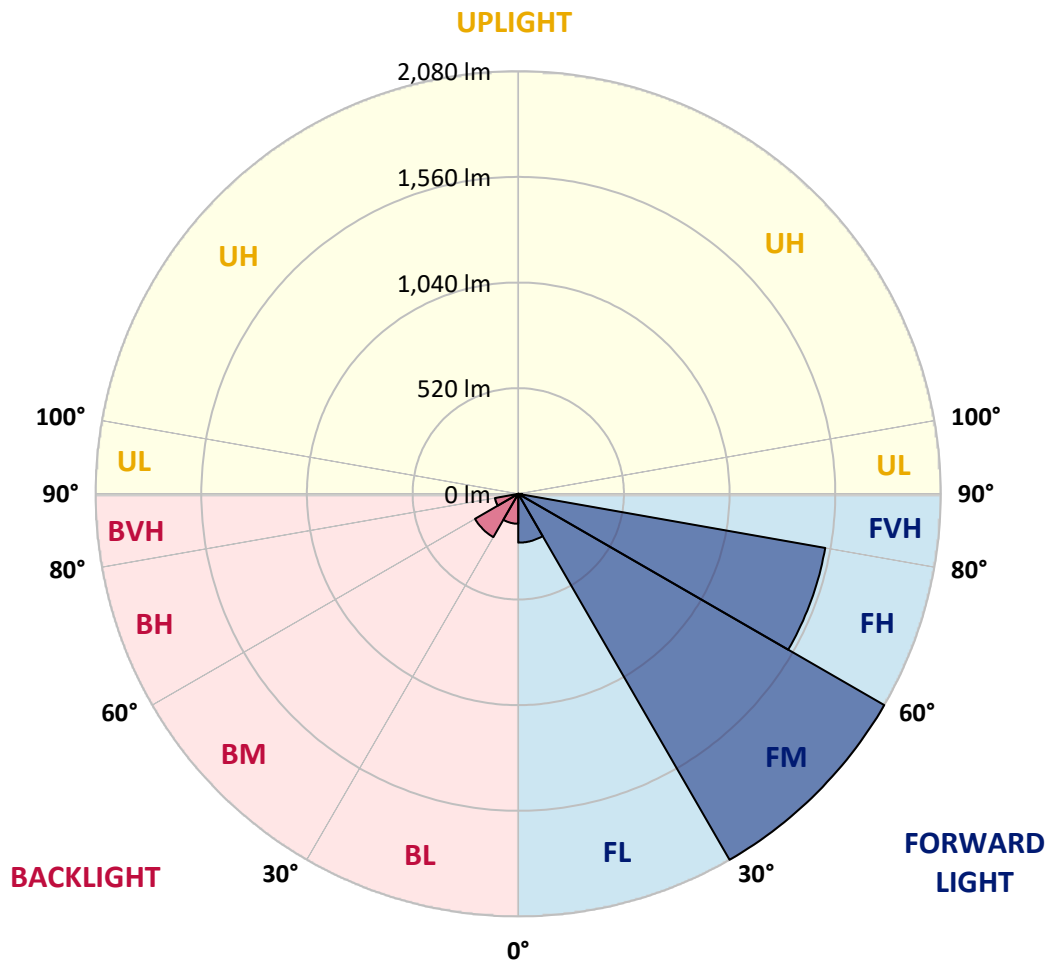
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	240.4	5.5			
FM (30°-60°)	2079.8	47.4			
FH (60°-80°)	1534.1	35.0			G1/1800
FVH (80°-90°)	18.3	0.4			G1/100
BL (0°-30°)	147.5	3.4	B1/500		
BM (30°-60°)	245.9	5.6	B1/1000		
BH (60°-80°)	116.4	2.7	B1/500		G1/500
BVH (80°-90°)	1.7	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7
2.5°	461.0	459.4	459.4	462.6	464.2	465.8	468.9	468.9	468.9	472.1	473.7
5°	438.6	438.6	440.2	443.4	449.8	454.6	464.2	465.8	467.4	475.3	478.5
7.5°	424.3	424.3	425.9	432.3	440.2	451.4	464.2	467.4	472.1	483.3	491.3
10°	422.7	421.1	424.3	430.7	440.2	454.6	468.9	473.7	483.3	497.7	508.8
12.5°	427.5	425.9	429.1	435.5	445.0	459.4	478.5	486.5	497.7	516.8	532.8
15°	430.7	429.1	432.3	440.2	451.4	468.9	491.3	500.9	515.2	542.3	558.3
17.5°	440.2	438.6	440.2	446.6	457.8	476.9	505.6	515.2	539.1	569.4	587.0
20°	483.3	481.7	472.1	468.9	470.5	488.1	524.8	540.7	569.4	607.7	620.5
22.5°	572.6	566.2	548.7	520.0	500.9	507.2	548.7	566.2	604.5	647.6	657.2
25°	692.3	687.5	662.0	612.5	558.3	542.3	575.8	599.7	646.0	693.9	690.7
27.5°	827.8	818.3	794.3	725.8	652.4	599.7	609.3	630.1	681.1	732.1	716.2
30°	945.9	942.7	915.6	858.1	772.0	693.9	660.4	671.5	717.8	772.0	752.9
32.5°	1054.3	1044.8	1022.4	968.2	888.5	808.7	741.7	741.7	780.0	843.8	815.1
35°	1174.0	1167.6	1140.5	1086.2	1009.7	915.6	855.0	848.6	880.5	952.3	890.0
37.5°	1296.8	1280.8	1268.1	1212.3	1135.7	1054.3	981.0	966.6	982.6	1035.2	958.6
40°	1449.9	1449.9	1421.2	1370.2	1298.4	1212.3	1110.2	1073.5	1068.7	1137.3	1078.3
42.5°	1628.6	1623.8	1599.9	1552.0	1483.4	1403.7	1274.5	1241.0	1237.8	1320.7	1250.5
45°	1834.3	1831.1	1802.4	1762.5	1714.7	1627.0	1499.4	1465.9	1446.7	1542.4	1459.5
47.5°	2022.5	2011.4	2001.8	2006.6	1979.5	1880.6	1761.0	1721.1	1719.5	1794.4	1687.6
50°	2151.7	2145.4	2178.9	2210.8	2261.8	2199.6	2057.6	2022.5	1995.4	2094.3	1925.2
52.5°	2236.3	2233.1	2300.1	2391.0	2496.3	2491.5	2365.5	2344.7	2322.4	2349.5	2137.4
55°	2269.8	2269.8	2349.5	2517.0	2702.0	2781.8	2722.8	2694.1	2615.9	2560.1	2370.3
57.5°	2229.9	2225.1	2328.8	2547.3	2829.6	2993.9	3019.5	2986.0	2863.1	2800.9	2628.7
60°	2060.8	2064.0	2186.8	2462.8	2820.1	3080.1	3244.4	3214.1	3091.2	2998.7	2845.6
62.5°	1745.0	1772.1	1901.3	2201.2	2615.9	3011.5	3373.6	3389.5	3257.1	3142.3	3038.6
65°	1311.1	1335.1	1457.9	1789.7	2244.3	2781.8	3397.5	3459.7	3352.8	3236.4	3068.9
67.5°	797.5	805.5	955.4	1205.9	1652.5	2317.6	3230.0	3365.6	3289.0	3097.6	2769.0
70°	371.7	392.4	465.8	658.8	1046.4	1706.7	2791.4	2982.8	2896.6	2659.0	2105.5
72.5°	145.2	151.5	197.8	304.7	555.1	1073.5	2083.2	2210.8	2151.7	1888.6	1255.3
75°	71.8	76.6	95.7	145.2	253.6	443.4	1272.9	1355.8	1258.5	949.1	531.2
77.5°	52.6	52.6	63.8	89.3	138.8	164.3	535.9	601.3	567.8	366.9	145.2
80°	35.1	38.3	44.7	60.6	87.7	79.8	202.6	240.9	201.0	113.2	51.0
82.5°	20.7	22.3	33.5	43.1	59.0	46.3	68.6	76.6	82.9	55.8	23.9
85°	11.2	11.2	22.3	31.9	31.9	20.7	23.9	27.1	31.9	33.5	12.8
87.5°	3.2	3.2	14.4	19.1	12.8	11.2	12.8	12.8	14.4	17.5	6.4
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°	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7
2.5°	475.3	475.3	476.9	476.9	478.5	478.5	478.5	478.5	480.1	481.7	481.7
5°	480.1	481.7	481.7	481.7	481.7	478.5	476.9	475.3	475.3	476.9	476.9
7.5°	492.9	494.5	492.9	489.7	484.9	478.5	472.1	472.1	470.5	472.1	470.5
10°	512.0	512.0	510.4	502.4	494.5	481.7	468.9	459.4	453.0	451.4	448.2
12.5°	535.9	535.9	531.2	516.8	502.4	478.5	445.0	413.1	387.6	376.4	373.2
15°	559.9	559.9	553.5	532.8	504.0	446.6	376.4	309.4	271.2	255.2	245.6
17.5°	588.6	585.4	574.2	545.5	486.5	382.8	269.6	201.0	170.7	156.3	156.3
20°	618.9	615.7	595.0	547.1	441.8	274.4	175.5	138.8	130.8	127.6	127.6
22.5°	652.4	644.4	612.5	534.3	347.7	186.6	132.4	122.8	119.6	118.0	118.0
25°	679.5	666.7	625.3	499.3	248.8	130.8	116.4	113.2	106.9	105.3	102.1
27.5°	700.2	681.1	630.1	424.3	164.3	108.5	103.7	97.3	90.9	84.5	84.5
30°	727.4	703.4	633.2	330.2	111.7	94.1	89.3	81.3	73.4	67.0	67.0
32.5°	781.6	746.5	634.8	231.3	92.5	82.9	73.4	63.8	55.8	52.6	51.0
35°	840.6	792.7	617.3	149.9	81.3	70.2	59.0	51.0	43.1	41.5	41.5
37.5°	906.0	861.3	579.0	102.1	71.8	59.0	47.9	39.9	35.1	33.5	33.5
40°	1016.1	963.4	515.2	81.3	62.2	49.4	39.9	33.5	30.3	28.7	28.7
42.5°	1174.0	1083.1	435.5	70.2	54.2	41.5	31.9	27.1	25.5	23.9	23.9
45°	1355.8	1217.0	342.9	63.8	47.9	35.1	27.1	23.9	22.3	20.7	20.7
47.5°	1564.8	1355.8	271.2	55.8	41.5	30.3	23.9	20.7	19.1	17.5	17.5
50°	1762.5	1464.3	204.2	49.4	36.7	25.5	20.7	19.1	17.5	16.0	16.0
52.5°	1925.2	1537.6	154.7	43.1	31.9	22.3	19.1	17.5	14.4	14.4	14.4
55°	2121.4	1595.1	118.0	38.3	28.7	20.7	17.5	14.4	12.8	11.2	11.2
57.5°	2292.1	1615.8	86.1	33.5	25.5	19.1	16.0	12.8	9.6	8.0	8.0
60°	2407.0	1598.3	62.2	28.7	22.3	16.0	12.8	9.6	6.4	4.8	4.8
62.5°	2488.3	1560.0	47.9	25.5	19.1	14.4	11.2	8.0	4.8	3.2	3.2
65°	2407.0	1441.9	38.3	22.3	16.0	12.8	8.0	6.4	3.2	1.6	1.6
67.5°	2081.6	1209.1	30.3	19.1	14.4	11.2	8.0	4.8	1.6	0.0	0.0
70°	1496.2	862.9	25.5	17.5	12.8	9.6	6.4	3.2	1.6	0.0	0.0
72.5°	834.2	445.0	23.9	16.0	12.8	9.6	6.4	3.2	1.6	0.0	0.0
75°	338.2	153.1	22.3	16.0	12.8	8.0	6.4	3.2	1.6	0.0	0.0
77.5°	98.9	52.6	19.1	14.4	12.8	9.6	6.4	3.2	1.6	0.0	0.0
80°	35.1	23.9	14.4	12.8	9.6	8.0	6.4	4.8	1.6	0.0	0.0
82.5°	16.0	9.6	6.4	4.8	4.8	4.8	4.8	3.2	1.6	0.0	0.0
85°	6.4	4.8	3.2	1.6	1.6	1.6	1.6	1.6	1.6	0.0	0.0
87.5°	4.8	3.2	1.6	1.6	1.6	1.6	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)