

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: P573224

Luminaire Tested: **ARCH-S-PA2-50-730-U-T3-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573224
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-PA2-50-730-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 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: 5432 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

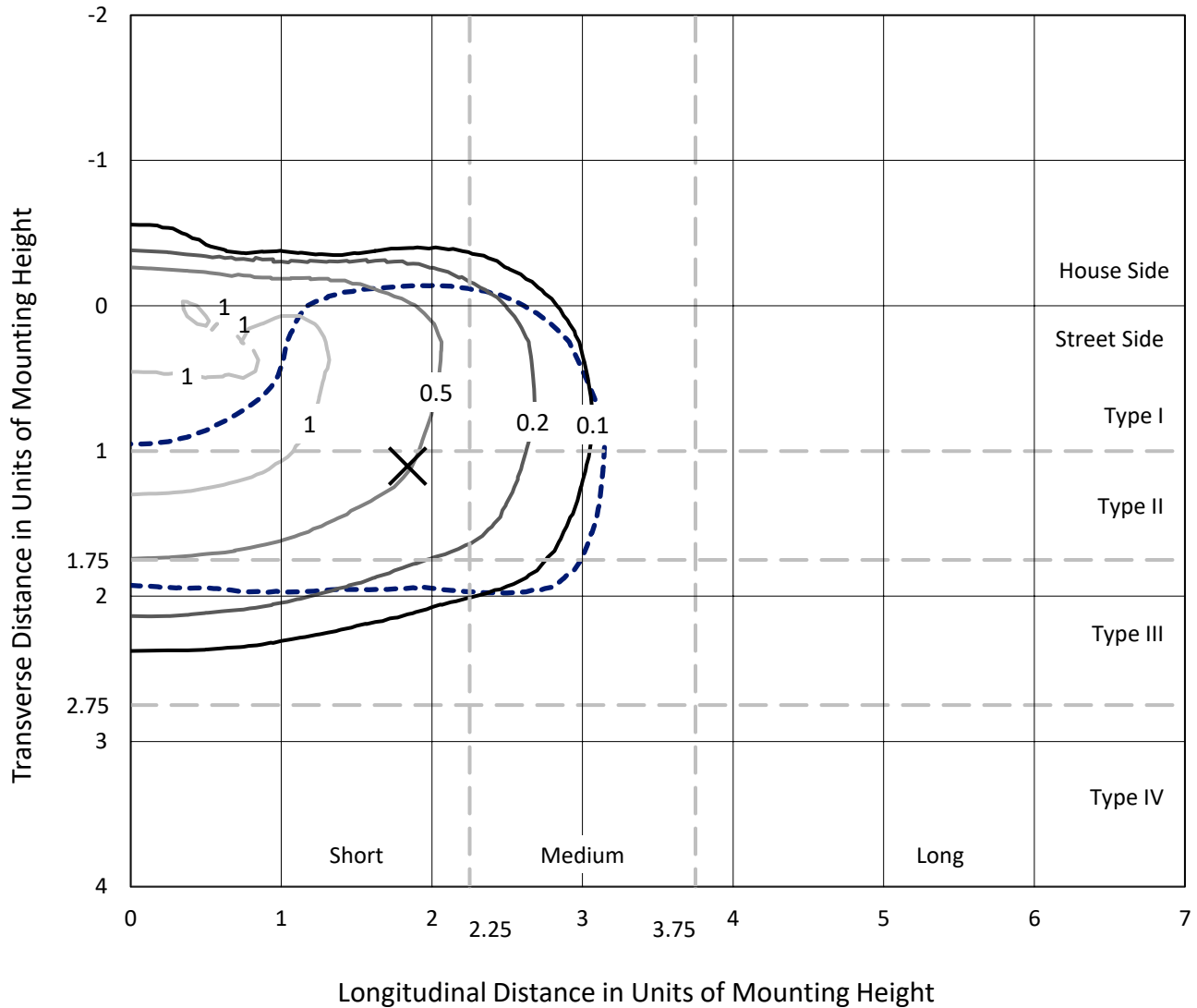
Input Watts (W): 53.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

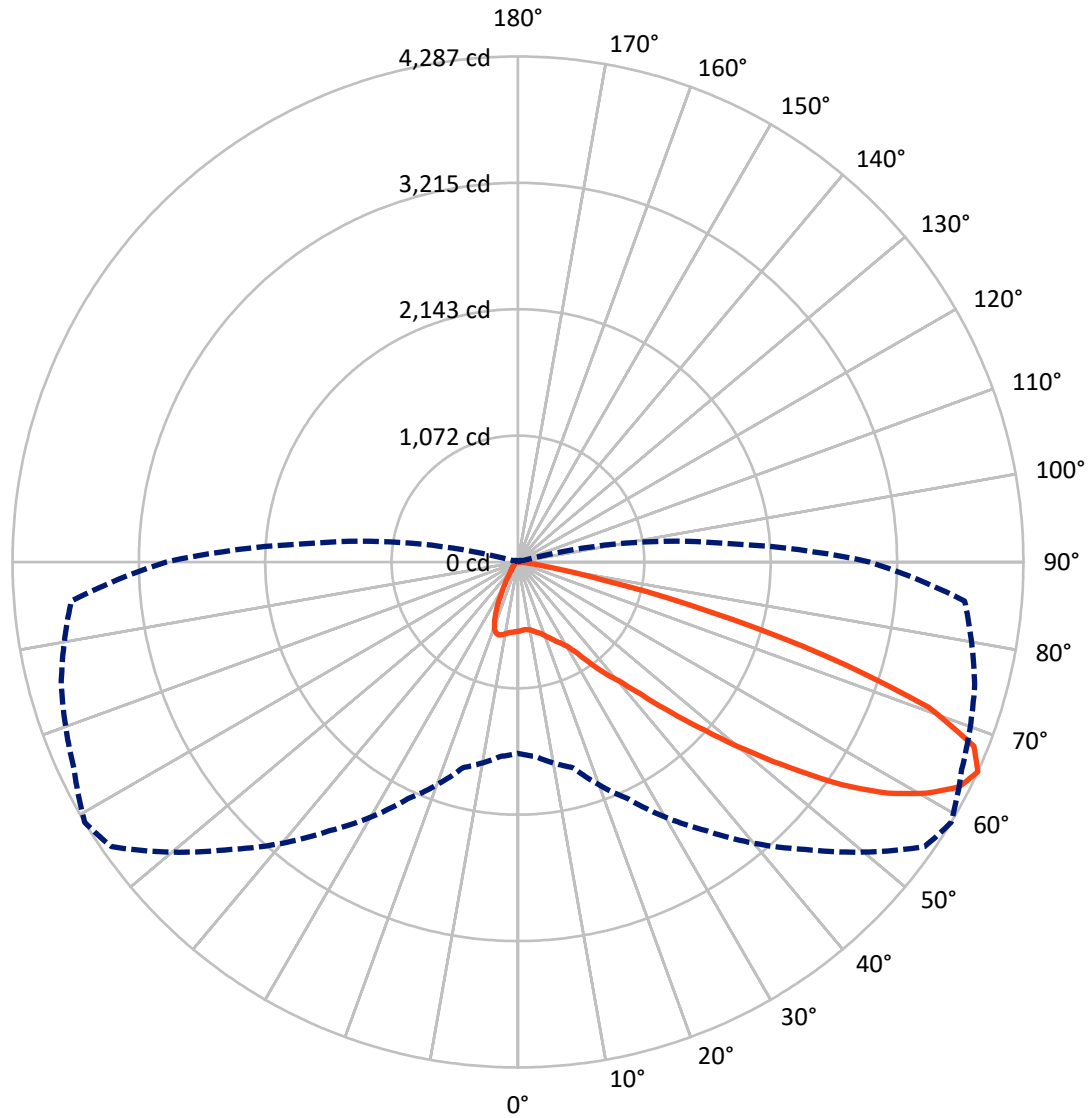
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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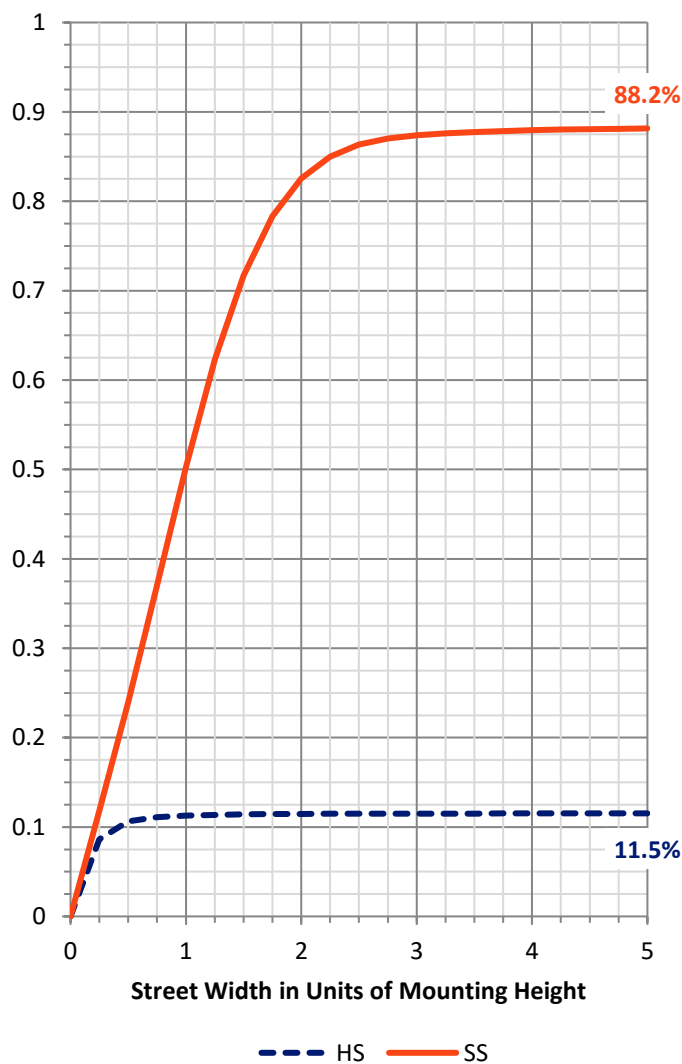
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	633.7	0.0	633.7
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	4798.3	0.0	4798.3
	% Fixture	88.3	0.0	88.3
Total	Lumens	5432.0	0.0	5432.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.5	1.0
10°-20°	157.6	2.9
20°-30°	267.6	4.9
30°-40°	474.1	8.7
40°-50°	894.3	16.5
50°-60°	1513.2	27.9
60°-70°	1573.2	29.0
70°-80°	471.8	8.7
80°-90°	24.7	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°	5432.0	100.0
0°-180°	5432.0	100.0

Coefficient of Utilization



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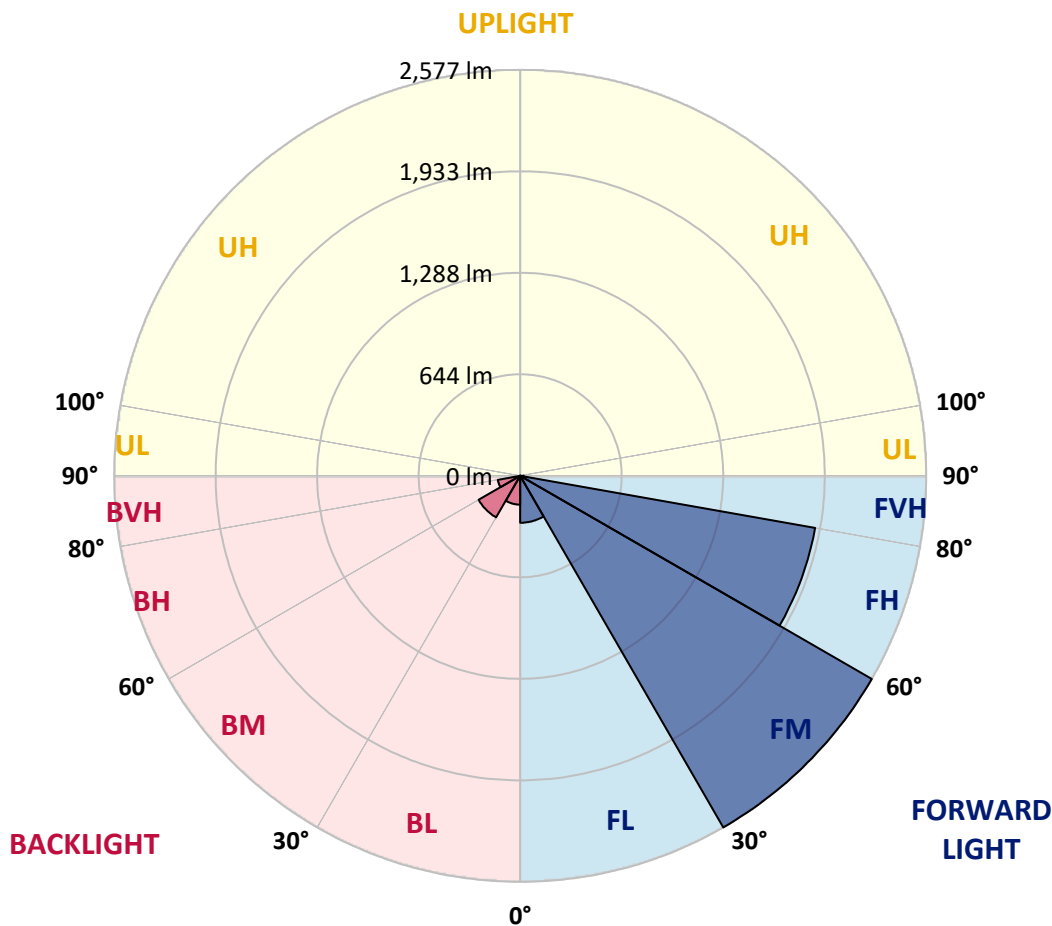
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	297.9	5.5			
FM (30°-60°)	2577.0	47.4			
FH (60°-80°)	1900.8	35.0			G2/5000
FVH (80°-90°)	22.6	0.4			G1/100
BL (0°-30°)	182.8	3.4	B1/500		
BM (30°-60°)	304.6	5.6	B1/1000		
BH (60°-80°)	144.2	2.7	B1/500		G1/500
BVH (80°-90°)	2.1	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°	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0
2.5°	571.2	569.2	569.2	573.1	575.1	577.1	581.1	581.1	581.1	585.0	587.0
5°	543.5	543.5	545.5	549.4	557.3	563.3	575.1	577.1	579.1	589.0	592.9
7.5°	525.7	525.7	527.7	535.6	545.5	559.3	575.1	579.1	585.0	598.8	608.7
10°	523.7	521.8	525.7	533.6	545.5	563.3	581.1	587.0	598.8	616.6	630.5
12.5°	529.7	527.7	531.6	539.5	551.4	569.2	592.9	602.8	616.6	640.3	660.1
15°	533.6	531.6	535.6	545.5	559.3	581.1	608.7	620.6	638.4	672.0	691.7
17.5°	545.5	543.5	545.5	553.4	567.2	590.9	626.5	638.4	668.0	705.6	727.3
20°	598.8	596.9	585.0	581.1	583.0	604.8	650.2	670.0	705.6	753.0	768.8
22.5°	709.5	701.6	679.9	644.3	620.6	628.5	679.9	701.6	749.0	802.4	814.3
25°	857.7	851.8	820.2	758.9	691.7	672.0	713.5	743.1	800.4	859.7	855.8
27.5°	1025.7	1013.9	984.2	899.2	808.3	743.1	755.0	780.7	843.9	907.2	887.4
30°	1172.0	1168.0	1134.4	1063.3	956.6	859.7	818.2	832.1	889.4	956.6	932.8
32.5°	1306.4	1294.5	1266.9	1199.7	1100.8	1002.0	919.0	919.0	966.4	1045.5	1009.9
35°	1454.6	1446.7	1413.1	1345.9	1251.0	1134.4	1059.3	1051.4	1091.0	1179.9	1102.8
37.5°	1606.8	1587.0	1571.2	1502.0	1407.2	1306.4	1215.5	1197.7	1217.4	1282.7	1187.8
40°	1796.5	1796.5	1760.9	1697.7	1608.8	1502.0	1375.6	1330.1	1324.2	1409.2	1336.0
42.5°	2017.9	2011.9	1982.3	1923.0	1838.0	1739.2	1579.1	1537.6	1533.7	1636.4	1549.5
45°	2272.8	2268.9	2233.3	2183.9	2124.6	2015.9	1857.8	1816.3	1792.6	1911.1	1808.4
47.5°	2506.0	2492.2	2480.3	2486.3	2452.7	2330.1	2181.9	2132.5	2130.5	2223.4	2091.0
50°	2666.1	2658.2	2699.7	2739.2	2802.5	2725.4	2549.5	2506.0	2472.4	2595.0	2385.5
52.5°	2770.9	2766.9	2849.9	2962.6	3093.0	3087.1	2931.0	2905.3	2877.6	2911.2	2648.3
55°	2812.4	2812.4	2911.2	3118.7	3348.0	3446.8	3373.7	3338.1	3241.2	3172.1	2936.9
57.5°	2763.0	2757.0	2885.5	3156.3	3506.1	3709.6	3741.3	3699.8	3547.6	3470.5	3257.1
60°	2553.5	2557.4	2709.6	3051.5	3494.2	3816.4	4019.9	3982.4	3830.2	3715.6	3525.8
62.5°	2162.1	2195.7	2355.8	2727.4	3241.2	3731.4	4180.0	4199.8	4035.7	3893.4	3765.0
65°	1624.6	1654.2	1806.4	2217.5	2780.8	3446.8	4209.7	4286.7	4154.3	4010.1	3802.5
67.5°	988.2	998.1	1183.8	1494.1	2047.5	2871.7	4002.1	4170.1	4075.3	3838.1	3431.0
70°	460.5	486.2	577.1	816.2	1296.5	2114.7	3458.6	3695.8	3589.1	3294.6	2608.8
72.5°	179.8	187.8	245.1	377.5	687.8	1330.1	2581.1	2739.2	2666.1	2340.0	1555.4
75°	88.9	94.9	118.6	179.8	314.2	549.4	1577.1	1679.9	1559.4	1175.9	658.1
77.5°	65.2	65.2	79.1	110.7	171.9	203.6	664.1	745.1	703.6	454.6	179.8
80°	43.5	47.4	55.3	75.1	108.7	98.8	251.0	298.4	249.0	140.3	63.2
82.5°	25.7	27.7	41.5	53.4	73.1	57.3	85.0	94.9	102.8	69.2	29.6
85°	13.8	13.8	27.7	39.5	39.5	25.7	29.6	33.6	39.5	41.5	15.8
87.5°	4.0	4.0	17.8	23.7	15.8	13.8	15.8	15.8	17.8	21.7	7.9
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°	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0	587.0
2.5°	589.0	589.0	590.9	590.9	592.9	592.9	592.9	592.9	594.9	596.9	596.9
5°	594.9	596.9	596.9	596.9	596.9	592.9	590.9	589.0	589.0	590.9	590.9
7.5°	610.7	612.7	610.7	606.7	600.8	592.9	585.0	585.0	583.0	585.0	583.0
10°	634.4	634.4	632.4	622.6	612.7	596.9	581.1	569.2	561.3	559.3	555.4
12.5°	664.1	664.1	658.1	640.3	622.6	592.9	551.4	511.9	480.3	466.4	462.5
15°	693.7	693.7	685.8	660.1	624.5	553.4	466.4	383.4	336.0	316.2	304.4
17.5°	729.3	725.3	711.5	675.9	602.8	474.3	334.0	249.0	211.5	193.7	193.7
20°	766.8	762.9	737.2	677.9	547.5	339.9	217.4	171.9	162.1	158.1	158.1
22.5°	808.3	798.5	758.9	662.1	430.8	231.2	164.0	152.2	148.2	146.3	146.3
25°	841.9	826.1	774.7	618.6	308.3	162.1	144.3	140.3	132.4	130.4	126.5
27.5°	867.6	843.9	780.7	525.7	203.6	134.4	128.5	120.6	112.7	104.7	104.7
30°	901.2	871.6	784.6	409.1	138.3	116.6	110.7	100.8	90.9	83.0	83.0
32.5°	968.4	924.9	786.6	286.6	114.6	102.8	90.9	79.1	69.2	65.2	63.2
35°	1041.5	982.3	764.9	185.8	100.8	87.0	73.1	63.2	53.4	51.4	51.4
37.5°	1122.6	1067.2	717.4	126.5	88.9	73.1	59.3	49.4	43.5	41.5	41.5
40°	1258.9	1193.7	638.4	100.8	77.1	61.3	49.4	41.5	37.6	35.6	35.6
42.5°	1454.6	1342.0	539.5	87.0	67.2	51.4	39.5	33.6	31.6	29.6	29.6
45°	1679.9	1508.0	424.9	79.1	59.3	43.5	33.6	29.6	27.7	25.7	25.7
47.5°	1938.8	1679.9	336.0	69.2	51.4	37.6	29.6	25.7	23.7	21.7	21.7
50°	2183.9	1814.3	253.0	61.3	45.5	31.6	25.7	23.7	21.7	19.8	19.8
52.5°	2385.5	1905.2	191.7	53.4	39.5	27.7	23.7	21.7	17.8	17.8	17.8
55°	2628.6	1976.4	146.3	47.4	35.6	25.7	21.7	17.8	15.8	13.8	13.8
57.5°	2840.0	2002.1	106.7	41.5	31.6	23.7	19.8	15.8	11.9	9.9	9.9
60°	2982.3	1980.3	77.1	35.6	27.7	19.8	15.8	11.9	7.9	5.9	5.9
62.5°	3083.1	1932.9	59.3	31.6	23.7	17.8	13.8	9.9	5.9	4.0	4.0
65°	2982.3	1786.6	47.4	27.7	19.8	15.8	9.9	7.9	4.0	2.0	2.0
67.5°	2579.2	1498.1	37.6	23.7	17.8	13.8	9.9	5.9	2.0	0.0	0.0
70°	1853.8	1069.2	31.6	21.7	15.8	11.9	7.9	4.0	2.0	0.0	0.0
72.5°	1033.6	551.4	29.6	19.8	15.8	11.9	7.9	4.0	2.0	0.0	0.0
75°	419.0	189.7	27.7	19.8	15.8	9.9	7.9	4.0	2.0	0.0	0.0
77.5°	122.5	65.2	23.7	17.8	15.8	11.9	7.9	4.0	2.0	0.0	0.0
80°	43.5	29.6	17.8	15.8	11.9	9.9	7.9	5.9	2.0	0.0	0.0
82.5°	19.8	11.9	7.9	5.9	5.9	5.9	5.9	4.0	2.0	0.0	0.0
85°	7.9	5.9	4.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0
87.5°	5.9	4.0	2.0	2.0	2.0	2.0	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)