

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: P572707

Luminaire Tested: **ARCH-S-PA2-100-830-U-T2R-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572707
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-PA2-100-830-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1010mA 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: 8502 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

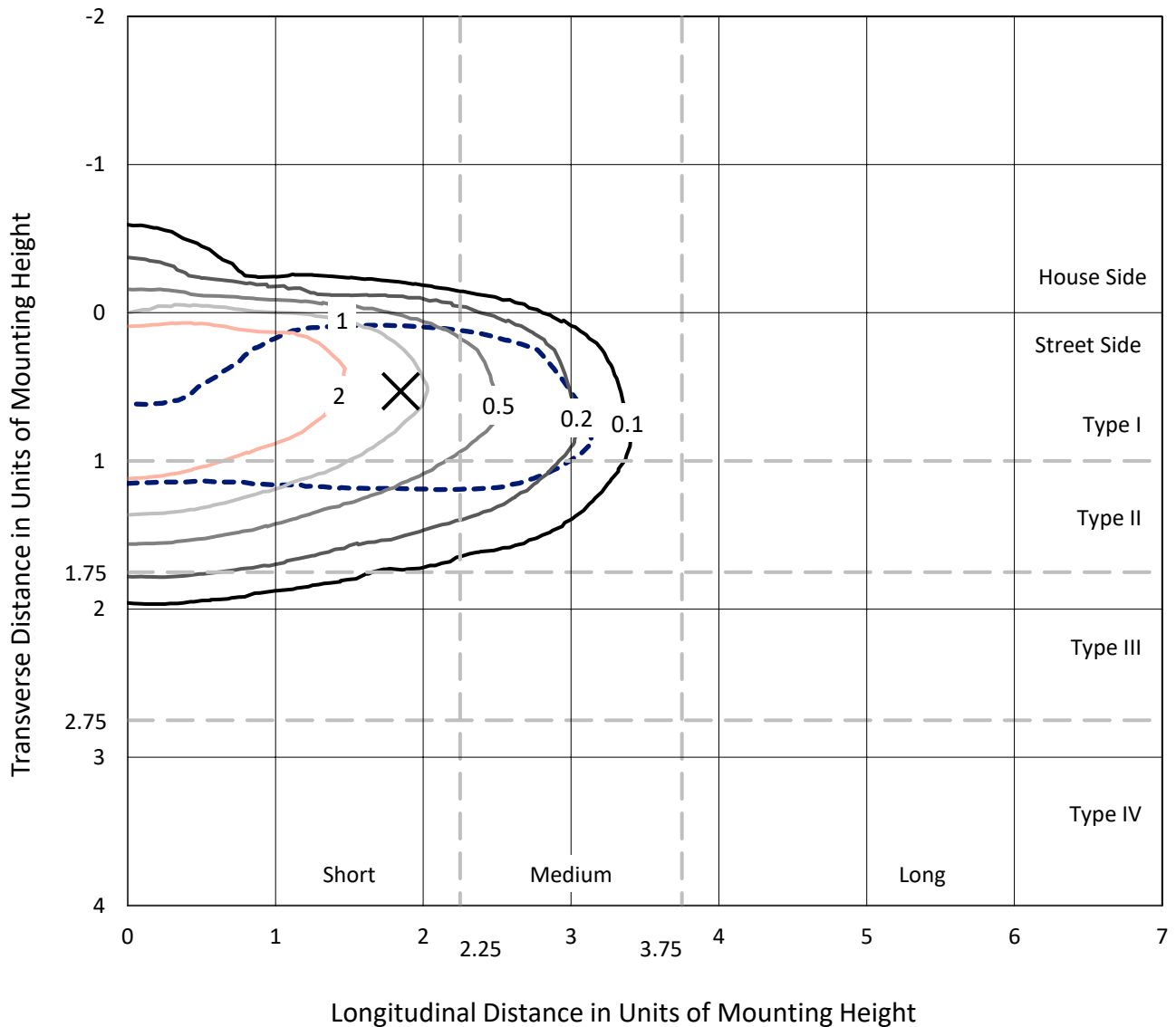
Input Watts (W): 103.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

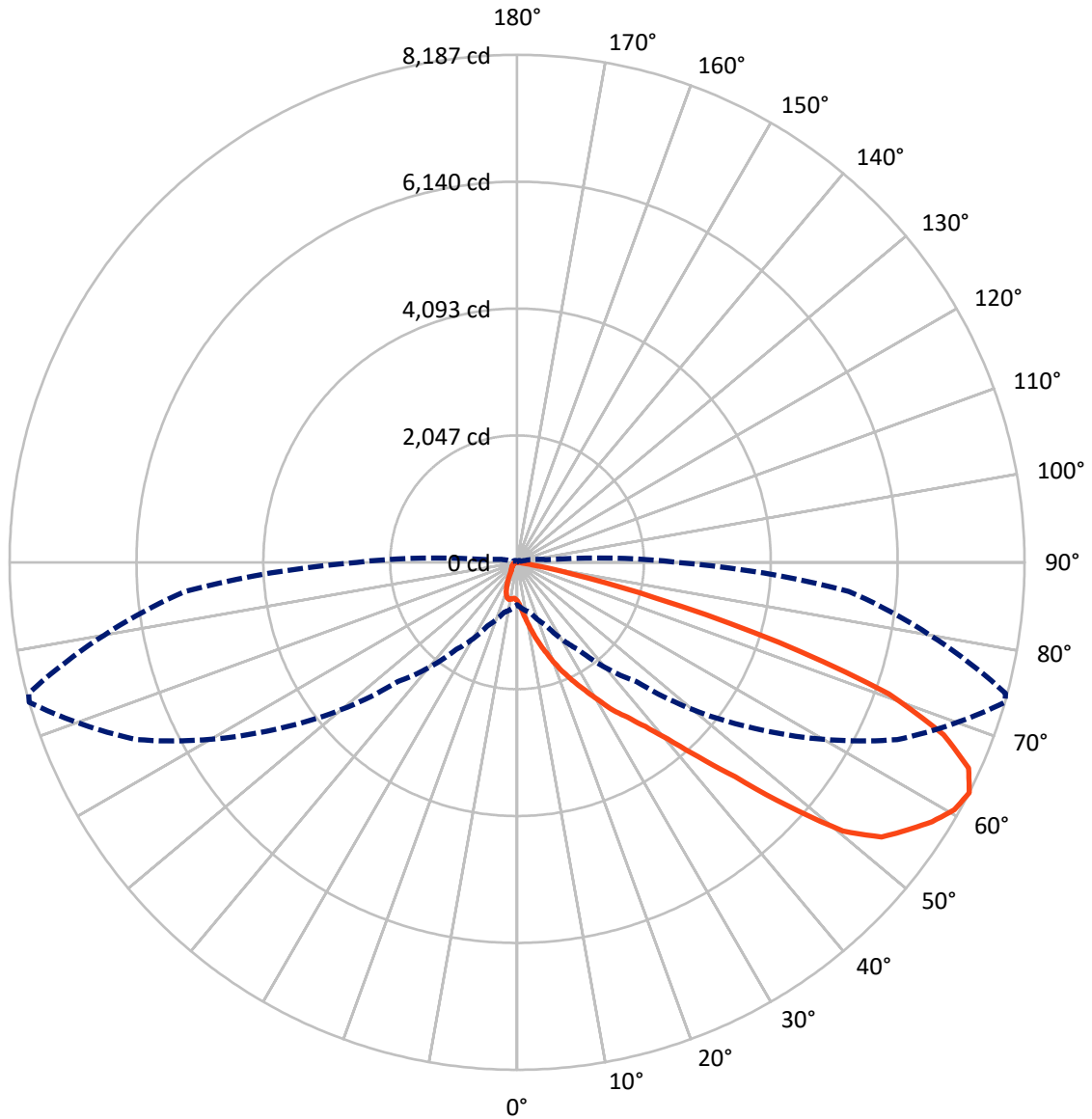
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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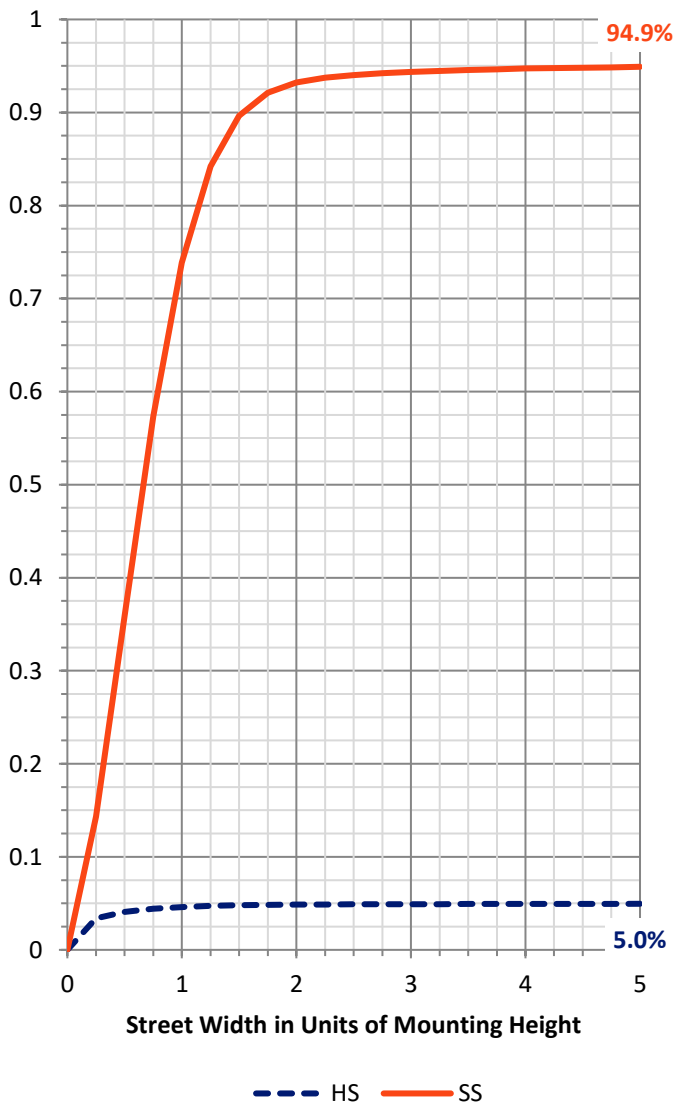
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	424.0	0.0	424.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	8078.0	0.0	8078.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	8502.0	0.0	8502.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.8	0.9
10°-20°	326.9	3.8
20°-30°	701.6	8.3
30°-40°	1230.5	14.5
40°-50°	1907.7	22.4
50°-60°	2199.2	25.9
60°-70°	1545.0	18.2
70°-80°	481.3	5.7
80°-90°	31.8	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°	8502.0	100.0
0°-180°	8502.0	100.0

Coefficient of Utilization

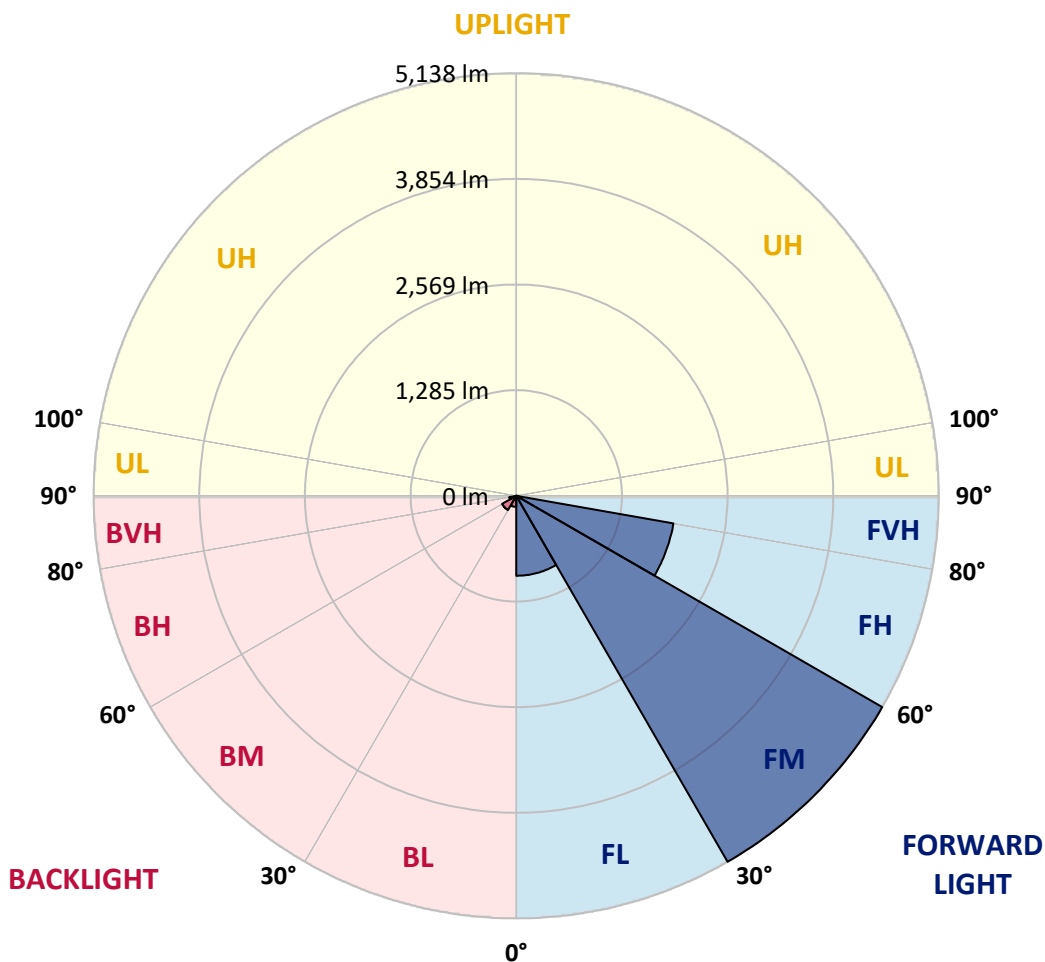


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	971.8	11.4			
FM (30°-60°)	5138.2	60.4			
FH (60°-80°)	1940.5	22.8			G2/5000
FVH (80°-90°)	27.5	0.3			G1/100
BL (0°-30°)	134.6	1.6	B1/500		
BM (30°-60°)	199.3	2.3	B0/220		
BH (60°-80°)	85.8	1.0	B0/110		G0/110
BVH (80°-90°)	4.4	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	622.4	622.4	622.4	622.4	622.4	622.4	622.4	622.4	622.4	622.4	622.4
2.5°	864.7	849.8	831.8	816.9	786.9	766.0	739.1	709.1	676.2	673.2	646.3
5°	1211.8	1166.9	1166.9	1128.1	1083.2	1002.4	927.6	834.8	766.0	760.0	688.2
7.5°	1567.9	1532.0	1511.0	1451.2	1379.4	1289.6	1169.9	1014.3	888.7	867.7	751.0
10°	1900.0	1873.1	1834.2	1786.3	1723.5	1576.9	1427.3	1223.8	1023.3	1008.4	825.8
12.5°	2157.4	2124.4	2106.5	2085.5	2004.8	1888.1	1693.6	1436.2	1196.9	1164.0	900.6
15°	2351.8	2336.9	2318.9	2318.9	2277.0	2163.3	1962.9	1663.6	1364.4	1325.5	996.4
17.5°	2507.4	2489.5	2486.5	2504.5	2492.5	2411.7	2223.2	1882.1	1538.0	1508.1	1095.1
20°	2681.0	2657.1	2657.1	2672.0	2669.0	2624.1	2459.6	2133.4	1741.4	1687.6	1208.8
22.5°	2926.3	2911.4	2899.4	2875.5	2857.5	2815.6	2672.0	2378.8	1935.9	1885.1	1325.5
25°	3255.5	3237.5	3183.7	3141.8	3064.0	3001.2	2878.5	2597.2	2133.4	2076.6	1439.2
27.5°	3575.6	3539.7	3488.9	3435.0	3348.2	3240.5	3087.9	2803.7	2339.9	2280.0	1555.9
30°	3913.8	3886.8	3824.0	3737.2	3629.5	3509.8	3327.3	3052.0	2576.3	2510.4	1681.6
32.5°	4183.1	4141.2	4084.3	4000.5	3889.8	3806.0	3608.6	3324.3	2848.6	2761.8	1813.3
35°	4398.5	4365.6	4290.8	4210.0	4126.2	4102.3	3886.8	3545.7	3067.0	2986.2	1953.9
37.5°	4536.1	4503.2	4440.4	4359.6	4326.7	4368.6	4227.9	3847.9	3360.2	3258.5	2115.5
40°	4643.9	4605.0	4554.1	4518.2	4506.2	4622.9	4607.9	4239.9	3746.2	3686.4	2336.9
42.5°	4721.7	4682.8	4649.8	4646.8	4724.6	4952.1	5119.6	4787.5	4284.8	4162.1	2621.1
45°	4622.9	4590.0	4607.9	4712.7	4901.2	5260.2	5739.0	5562.5	4934.1	4847.3	3076.0
47.5°	4347.6	4326.7	4407.5	4599.0	4949.1	5448.8	6337.4	6412.2	5861.7	5730.0	3665.4
50°	3916.8	3913.8	4042.4	4302.7	4799.4	5520.6	6639.6	7229.1	6813.2	6678.5	4144.2
52.5°	3333.3	3321.3	3509.8	3871.9	4446.4	5385.9	6696.5	7555.2	7363.7	7205.2	4446.4
55°	2672.0	2645.1	2869.5	3267.5	3925.7	4993.9	6543.9	7627.1	7627.1	7483.4	4670.8
57.5°	1879.1	1921.0	2106.5	2585.2	3282.4	4407.5	6166.9	7561.2	7893.4	7770.7	4973.0
60°	1184.9	1202.9	1406.3	1792.3	2489.5	3623.5	5493.6	7277.0	8105.8	8034.0	5215.4
62.5°	682.2	739.1	840.8	1134.0	1717.5	2722.9	4661.8	6765.3	8186.6	8156.7	5373.9
65°	415.9	421.9	469.8	640.3	1056.2	1858.1	3731.2	6053.2	8004.1	8031.0	5344.0
67.5°	311.2	311.2	326.1	403.9	601.4	1181.9	2752.8	5188.4	7420.6	7507.4	5062.8
70°	269.3	269.3	272.3	296.2	371.0	700.2	1819.2	4183.1	6361.4	6352.4	4183.1
72.5°	212.4	221.4	239.4	251.3	281.3	409.9	1065.2	2923.4	4419.4	4524.2	2693.0
75°	170.6	173.5	197.5	218.4	236.4	278.3	502.7	1624.8	2318.9	2318.9	1184.9
77.5°	131.7	137.6	152.6	173.5	197.5	197.5	209.5	628.4	897.7	867.7	350.1
80°	83.8	86.8	110.7	137.6	164.6	140.6	113.7	209.5	245.4	236.4	95.7
82.5°	50.9	53.9	71.8	110.7	110.7	77.8	71.8	86.8	77.8	71.8	38.9
85°	15.0	18.0	50.9	71.8	62.8	29.9	35.9	38.9	35.9	32.9	20.9
87.5°	3.0	3.0	15.0	18.0	15.0	15.0	12.0	15.0	15.0	15.0	9.0
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°	622.4	622.4	622.4	622.4	622.4	622.4	622.4	622.4	622.4	622.4	622.4
2.5°	631.3	619.4	595.4	577.5	562.5	547.6	535.6	532.6	526.6	526.6	523.6
5°	658.3	631.3	586.5	556.5	532.6	511.7	493.7	475.8	469.8	463.8	466.8
7.5°	700.2	658.3	595.4	550.6	508.7	460.8	421.9	389.0	365.0	359.1	350.1
10°	754.0	691.2	610.4	538.6	460.8	377.0	323.2	290.2	278.3	263.3	266.3
12.5°	807.9	730.1	622.4	505.7	380.0	296.2	251.3	230.4	221.4	218.4	221.4
15°	870.7	772.0	616.4	445.8	305.2	239.4	212.4	203.5	197.5	197.5	194.5
17.5°	933.6	807.9	595.4	368.0	245.4	203.5	191.5	182.5	176.5	173.5	173.5
20°	1002.4	840.8	547.6	293.2	203.5	185.5	173.5	161.6	155.6	155.6	155.6
22.5°	1074.2	864.7	484.7	233.4	182.5	164.6	152.6	143.6	137.6	137.6	137.6
25°	1137.0	876.7	409.9	194.5	167.6	149.6	137.6	128.7	125.7	122.7	122.7
27.5°	1196.9	873.7	332.1	170.6	149.6	134.6	122.7	116.7	110.7	110.7	110.7
30°	1256.7	855.8	263.3	155.6	137.6	119.7	110.7	104.7	101.7	98.7	98.7
32.5°	1307.6	825.8	206.5	143.6	125.7	107.7	98.7	92.8	92.8	89.8	89.8
35°	1358.4	781.0	173.5	134.6	113.7	98.7	89.8	86.8	83.8	83.8	83.8
37.5°	1412.3	724.1	152.6	122.7	101.7	89.8	83.8	80.8	77.8	74.8	74.8
40°	1478.1	667.3	143.6	113.7	92.8	80.8	74.8	71.8	68.8	68.8	68.8
42.5°	1582.9	619.4	134.6	101.7	83.8	74.8	68.8	62.8	62.8	59.8	59.8
45°	1780.3	601.4	125.7	92.8	77.8	65.8	62.8	56.9	53.9	53.9	53.9
47.5°	2037.7	604.4	116.7	83.8	71.8	59.8	56.9	53.9	47.9	47.9	47.9
50°	2250.1	589.5	107.7	77.8	62.8	56.9	50.9	47.9	44.9	44.9	44.9
52.5°	2333.9	562.5	98.7	71.8	59.8	50.9	47.9	44.9	41.9	41.9	41.9
55°	2417.7	550.6	89.8	62.8	53.9	50.9	44.9	41.9	38.9	35.9	35.9
57.5°	2570.3	556.5	80.8	59.8	50.9	47.9	41.9	35.9	29.9	26.9	26.9
60°	2651.1	535.6	74.8	53.9	47.9	44.9	35.9	26.9	20.9	18.0	18.0
62.5°	2582.2	475.8	68.8	50.9	44.9	38.9	26.9	20.9	15.0	9.0	9.0
65°	2390.7	392.0	62.8	47.9	38.9	29.9	23.9	15.0	9.0	6.0	6.0
67.5°	2148.4	308.2	56.9	44.9	35.9	26.9	20.9	12.0	6.0	3.0	3.0
70°	1735.5	221.4	53.9	41.9	32.9	23.9	18.0	12.0	6.0	3.0	3.0
72.5°	1119.1	143.6	47.9	38.9	29.9	23.9	15.0	9.0	6.0	3.0	3.0
75°	517.6	95.7	44.9	35.9	29.9	20.9	15.0	12.0	6.0	3.0	3.0
77.5°	152.6	68.8	41.9	32.9	26.9	20.9	15.0	12.0	6.0	3.0	3.0
80°	62.8	47.9	32.9	29.9	26.9	20.9	15.0	12.0	6.0	3.0	3.0
82.5°	29.9	20.9	15.0	12.0	15.0	15.0	12.0	12.0	6.0	3.0	3.0
85°	15.0	9.0	6.0	6.0	6.0	3.0	3.0	6.0	6.0	3.0	3.0
87.5°	9.0	6.0	6.0	6.0	3.0	3.0	3.0	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)