

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: P800002

Luminaire Tested: **ARCH2-70-727-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800002
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-70-727-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6835 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 73.6
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

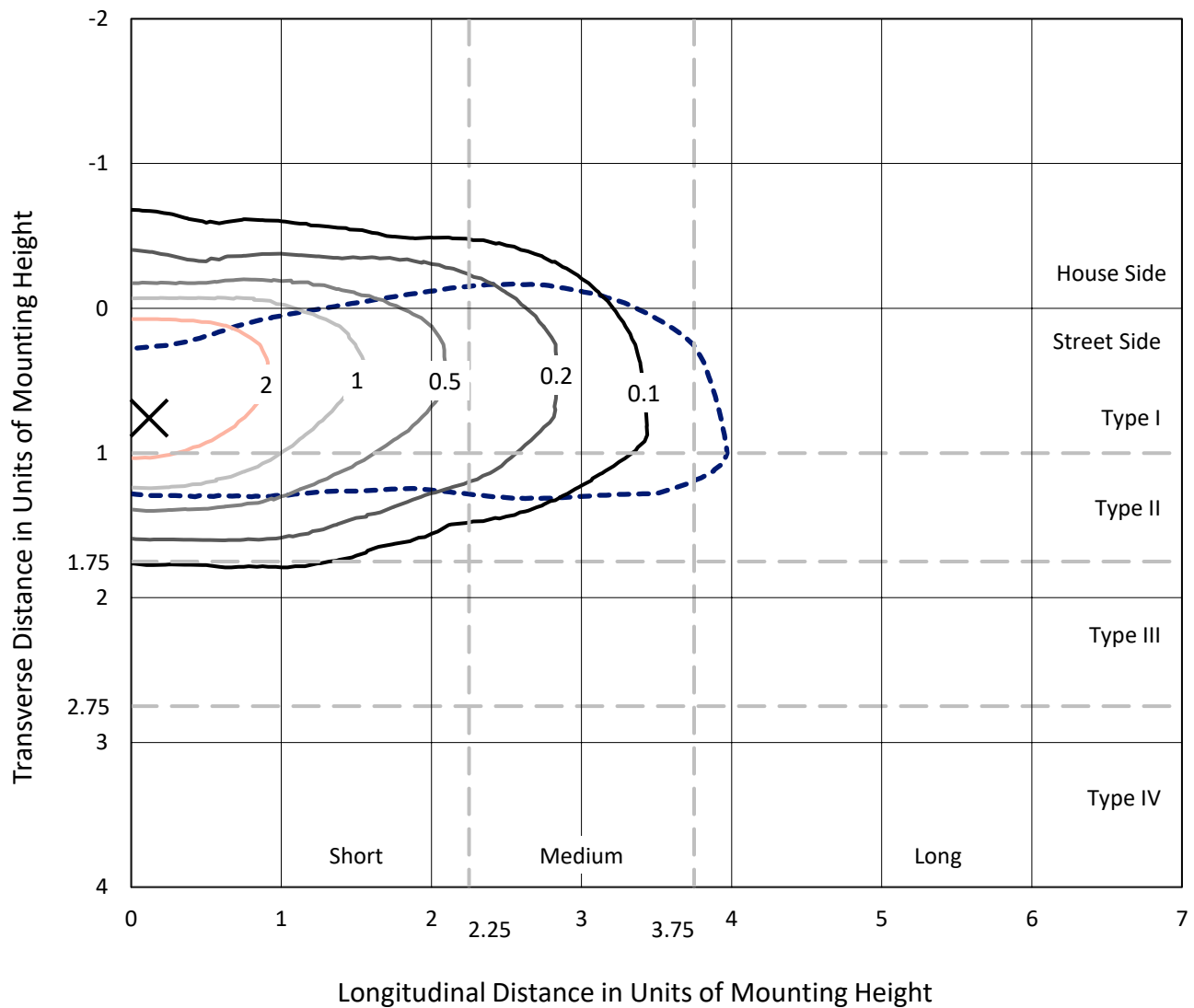


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

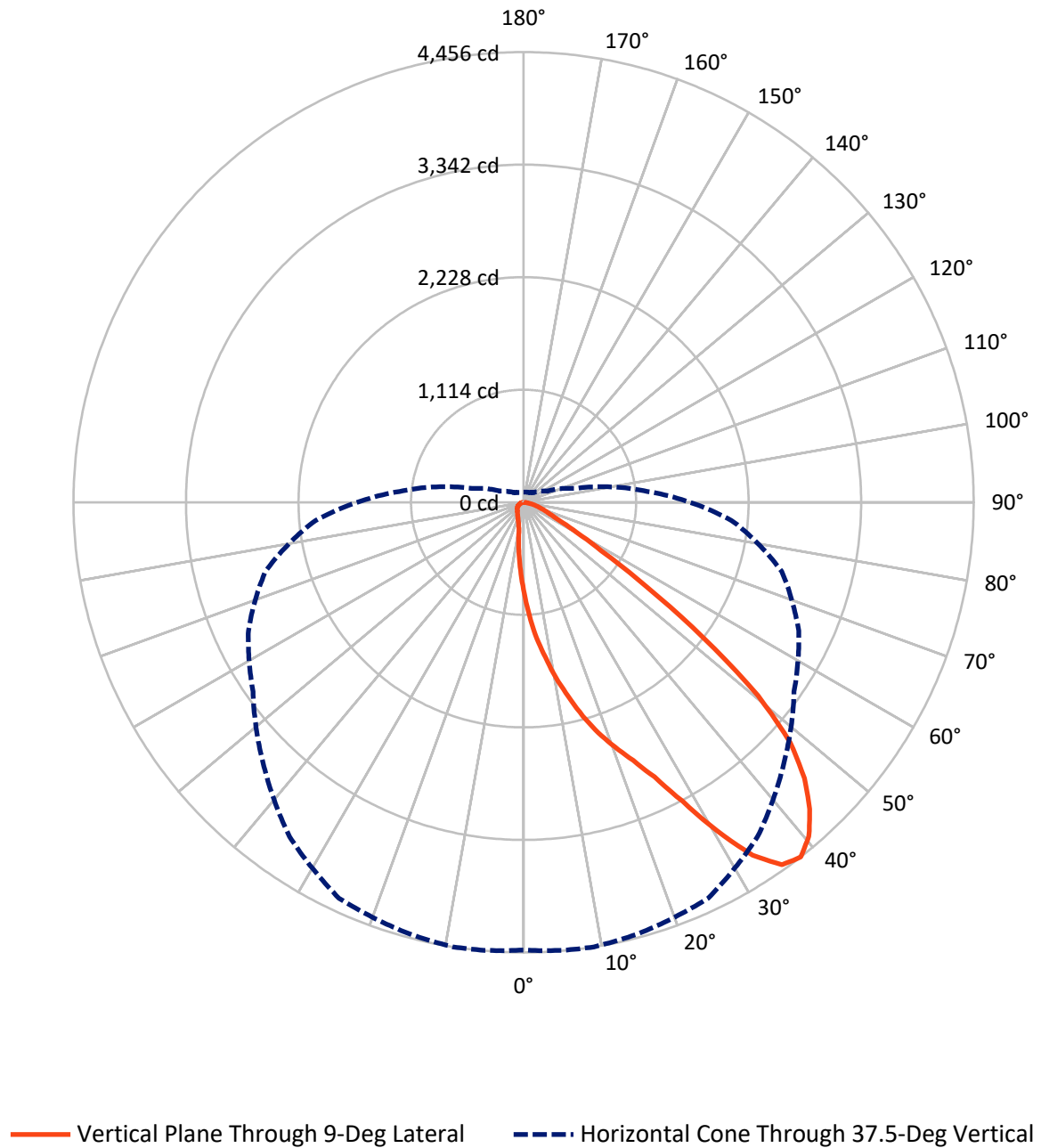


Based on 25 foot mounting height. Maximum calculated value = 4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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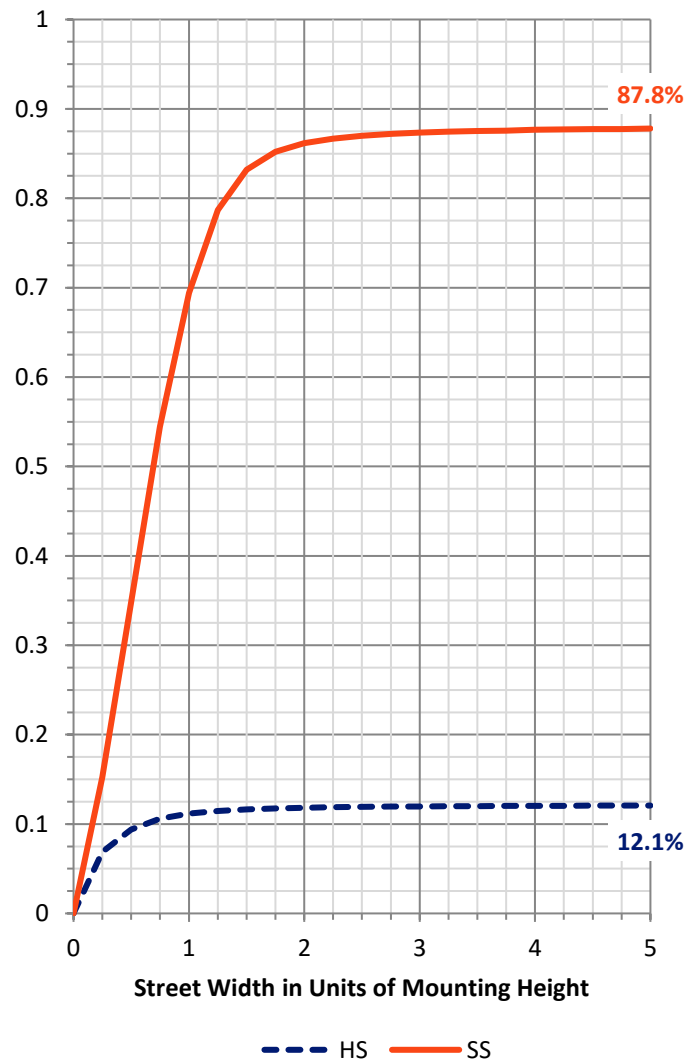
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	831.3	0.0	831.3
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	6003.7	0.0	6003.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	6835.0	0.0	6835.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.8	1.3
10°-20°	315.6	4.6
20°-30°	648.6	9.5
30°-40°	1146.4	16.8
40°-50°	1522.9	22.3
50°-60°	1444.4	21.1
60°-70°	1101.9	16.1
70°-80°	534.2	7.8
80°-90°	30.1	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°	6835.0	100.0
0°-180°	6835.0	100.0

Coefficient of Utilization



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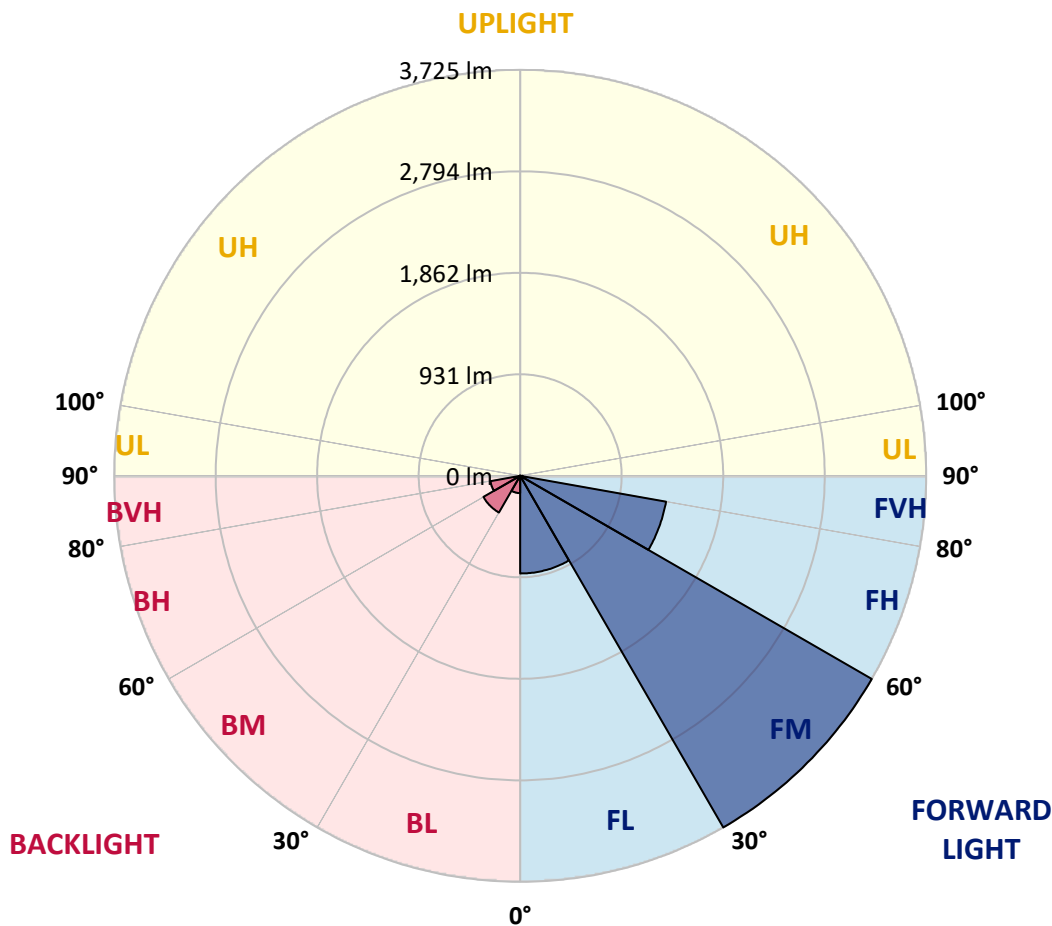
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	896.4	13.1			
FM	(30°-60°)	3724.7	54.5			
FH	(60°-80°)	1358.8	19.9			G1/1800
FVH	(80°-90°)	23.8	0.3			G1/100
BL	(0°-30°)	158.6	2.3	B1/500		
BM	(30°-60°)	389.0	5.7	B1/1000		
BH	(60°-80°)	277.4	4.1	B1/500		G1/500
BVH	(80°-90°)	6.3	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°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	1119.6	1099.9	1122.4	1119.6	1099.9	1087.3	1048.0	1035.4	989.1	955.4	926.0
5°	1349.6	1330.0	1349.6	1344.0	1316.0	1285.1	1220.6	1178.5	1095.7	1022.8	956.8
7.5°	1540.4	1540.4	1548.9	1550.3	1516.6	1468.9	1388.9	1325.8	1209.3	1097.1	991.9
10°	1746.7	1748.1	1766.3	1753.7	1708.8	1644.3	1543.3	1463.3	1323.0	1175.7	1025.6
12.5°	1966.9	1968.3	1974.0	1968.3	1915.0	1832.3	1710.2	1605.0	1443.6	1265.5	1071.9
15°	2187.2	2188.6	2195.6	2185.8	2126.9	2030.1	1891.2	1762.1	1571.3	1366.5	1128.0
17.5°	2393.4	2396.3	2401.9	2389.2	2327.5	2212.5	2070.8	1915.0	1707.4	1474.5	1191.1
20°	2578.6	2581.4	2585.6	2568.8	2507.1	2392.0	2239.1	2076.4	1846.3	1585.3	1259.9
22.5°	2765.2	2768.0	2775.0	2752.6	2683.9	2552.0	2401.9	2233.5	1993.6	1707.4	1339.8
25°	3003.7	3006.5	3012.1	2979.9	2885.9	2731.6	2573.0	2400.5	2153.5	1844.9	1438.0
27.5°	3353.1	3350.3	3350.3	3291.3	3130.0	2929.4	2745.6	2570.2	2326.1	1992.2	1546.1
30°	3785.2	3778.2	3774.0	3694.0	3463.9	3152.4	2922.4	2728.8	2491.7	2147.9	1662.5
32.5°	4172.4	4172.4	4164.0	4079.8	3835.7	3452.7	3110.4	2883.1	2651.6	2305.1	1783.2
35°	4401.1	4410.9	4406.7	4343.6	4165.4	3775.4	3364.3	3068.3	2819.9	2469.2	1927.7
37.5°	4431.9	4451.6	4455.8	4417.9	4323.9	4039.1	3646.3	3268.9	3005.1	2646.0	2068.0
40°	4307.1	4349.2	4349.2	4343.6	4309.9	4164.0	3883.4	3501.8	3195.9	2829.8	2209.7
42.5°	4114.9	4158.4	4152.8	4173.8	4165.4	4134.5	4016.7	3719.2	3386.7	3019.2	2338.7
45°	3863.7	3908.6	3897.4	3935.3	3952.1	3985.8	4002.6	3870.8	3574.7	3225.4	2483.2
47.5°	3461.1	3536.9	3553.7	3621.0	3691.2	3796.4	3876.4	3925.5	3750.1	3447.1	2640.4
50°	2866.2	2972.9	3006.5	3148.2	3340.4	3557.9	3687.0	3858.1	3873.6	3674.3	2810.1
52.5°	2052.5	2176.0	2227.9	2460.8	2856.4	3235.2	3468.1	3709.4	3921.3	3891.8	2993.9
55°	1327.2	1432.4	1482.9	1701.8	2227.9	2822.7	3210.0	3517.2	3894.6	4091.0	3204.4
57.5°	817.9	878.3	911.9	1099.9	1583.9	2293.8	2871.9	3340.4	3813.2	4263.6	3423.2
60°	551.4	586.4	603.3	691.7	1076.1	1714.4	2407.5	3155.3	3706.6	4380.0	3622.4
62.5°	366.2	377.4	394.2	448.9	709.9	1203.7	1849.1	2824.2	3626.6	4387.0	3769.7
65°	283.4	289.0	296.0	319.9	437.7	841.8	1300.5	2288.2	3507.4	4238.3	3816.0
67.5°	223.1	228.7	237.1	249.7	317.1	571.0	885.3	1676.5	3263.3	4005.4	3740.3
70°	175.4	179.6	185.2	196.4	246.9	413.9	585.0	1113.9	2770.8	3783.8	3501.8
72.5°	138.9	143.1	148.7	159.9	200.6	303.0	401.2	694.5	2136.7	3513.0	3043.0
75°	109.4	112.2	116.4	127.7	161.3	235.7	272.2	415.3	1452.1	3017.8	2371.0
77.5°	54.7	67.3	77.2	88.4	117.8	162.7	181.0	230.1	613.1	1548.9	1130.8
80°	32.3	39.3	42.1	49.1	77.2	98.2	98.2	92.6	193.6	594.9	461.6
82.5°	18.2	25.3	26.7	28.1	46.3	56.1	44.9	33.7	39.3	199.2	134.7
85°	5.6	8.4	9.8	11.2	15.4	16.8	15.4	14.0	11.2	19.6	12.6
87.5°	0.0	0.0	0.0	0.0	1.4	2.8	2.8	2.8	4.2	4.2	4.2
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°	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5	903.5
2.5°	909.1	890.9	855.8	823.5	792.7	770.2	749.2	729.5	715.5	704.3	702.9
5°	921.7	885.3	817.9	754.8	697.3	649.6	608.9	576.6	552.8	535.9	534.5
7.5°	938.6	882.5	780.0	686.0	600.5	531.7	472.8	429.3	398.4	385.8	376.0
10°	952.6	879.7	742.2	617.3	505.1	418.1	347.9	304.4	282.0	273.6	269.4
12.5°	976.5	882.5	709.9	554.2	422.3	319.9	266.6	242.7	232.9	225.9	224.5
15°	1011.5	895.1	679.0	492.4	338.1	258.1	227.3	211.8	202.0	200.6	199.2
17.5°	1046.6	906.3	651.0	429.3	280.6	224.5	203.4	190.8	183.8	182.4	182.4
20°	1087.3	920.3	620.1	369.0	239.9	202.0	185.2	175.4	167.0	165.5	165.5
22.5°	1135.0	940.0	590.6	315.7	213.2	185.2	171.2	159.9	152.9	151.5	151.5
25°	1199.5	969.4	566.8	276.4	195.0	171.2	158.5	148.7	143.1	140.3	140.3
27.5°	1271.1	1010.1	550.0	252.5	182.4	159.9	147.3	138.9	133.3	130.5	130.5
30°	1351.0	1055.0	538.7	242.7	175.4	150.1	138.9	130.5	123.5	122.1	122.1
32.5°	1439.4	1106.9	531.7	244.1	174.0	143.1	130.5	122.1	116.4	113.6	113.6
35°	1537.6	1164.5	527.5	252.5	176.8	137.5	123.5	115.0	109.4	106.6	106.6
37.5°	1647.1	1231.8	527.5	260.9	183.8	136.1	116.4	108.0	103.8	101.0	101.0
40°	1749.5	1303.3	533.1	270.8	190.8	136.1	110.8	103.8	98.2	95.4	95.4
42.5°	1829.5	1344.0	537.3	280.6	195.0	134.7	105.2	98.2	94.0	91.2	91.2
45°	1920.6	1387.5	528.9	284.8	195.0	131.9	101.0	94.0	89.8	87.0	87.0
47.5°	2021.7	1440.8	527.5	287.6	190.8	126.3	96.8	89.8	87.0	84.2	84.2
50°	2124.1	1499.8	530.3	286.2	185.2	117.8	91.2	87.0	82.8	80.0	80.0
52.5°	2240.5	1561.5	535.9	283.4	172.6	108.0	87.0	82.8	78.6	75.8	74.4
55°	2369.6	1628.8	547.2	277.8	155.7	98.2	82.8	78.6	73.0	70.1	68.7
57.5°	2518.3	1711.6	559.8	266.6	137.5	89.8	78.6	73.0	64.5	60.3	58.9
60°	2660.0	1805.6	573.8	239.9	119.3	81.4	74.4	65.9	57.5	54.7	53.3
62.5°	2793.3	1898.2	580.8	192.2	101.0	74.4	70.1	60.3	51.9	49.1	47.7
65°	2878.9	1999.2	565.4	130.5	82.8	68.7	64.5	56.1	47.7	43.5	43.5
67.5°	2884.5	2046.9	512.1	85.6	67.3	61.7	58.9	50.5	42.1	39.3	37.9
70°	2742.8	1975.4	391.4	67.3	56.1	53.3	53.3	44.9	36.5	33.7	32.3
72.5°	2417.3	1749.5	249.7	54.7	47.7	44.9	44.9	37.9	32.3	28.1	26.7
75°	1908.0	1349.6	133.3	44.9	39.3	37.9	35.1	30.9	26.7	23.9	22.4
77.5°	876.8	594.9	61.7	32.3	29.5	29.5	26.7	22.4	21.0	18.2	18.2
80°	346.5	202.0	30.9	21.0	19.6	19.6	19.6	15.4	15.4	12.6	11.2
82.5°	95.4	42.1	15.4	12.6	12.6	12.6	11.2	9.8	9.8	8.4	8.4
85°	9.8	7.0	7.0	7.0	7.0	5.6	5.6	4.2	2.8	2.8	2.8
87.5°	4.2	4.2	4.2	4.2	4.2	2.8	1.4	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)