

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: P800114

Luminaire Tested: **ARCH2-80-722-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800114
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: ARCH2-80-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 630mA 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: 6843 lumens
Efficiency: N/A
Efficacy: 81.2 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): 84.3
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

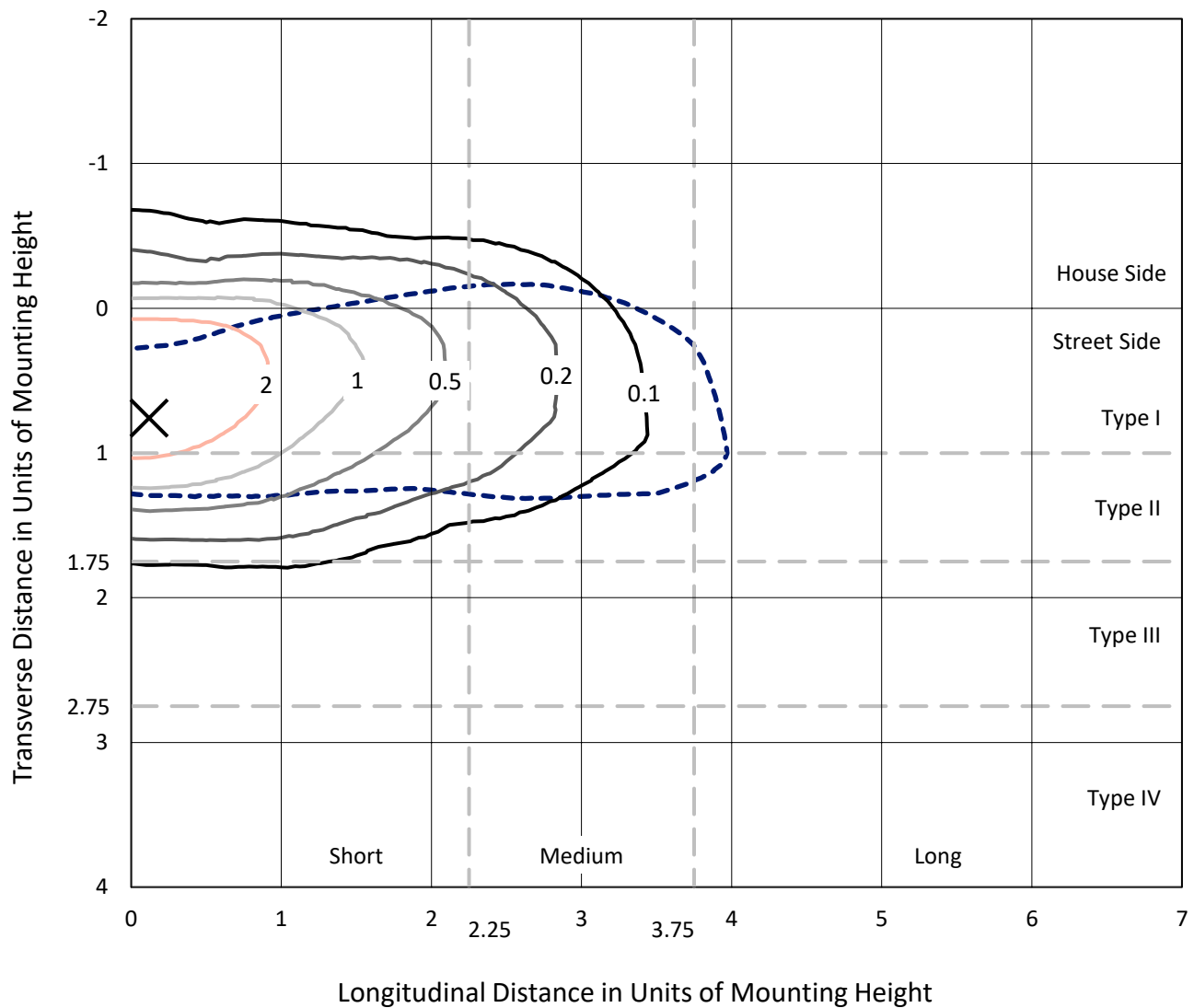


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Iso-Footcandle Lines of Horizontal Illumination

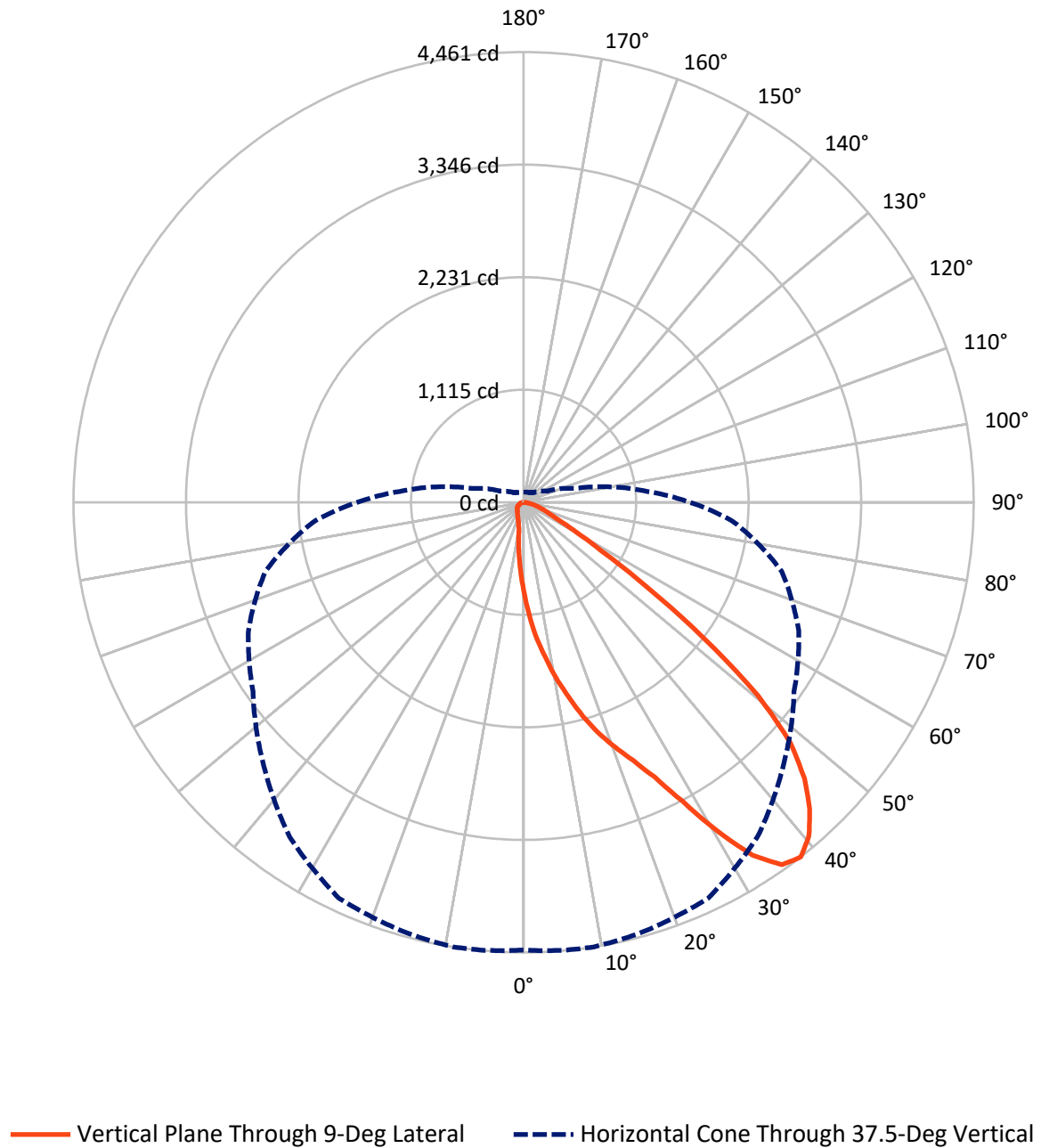
✕ Max cd
- - - 1/2 Max cd



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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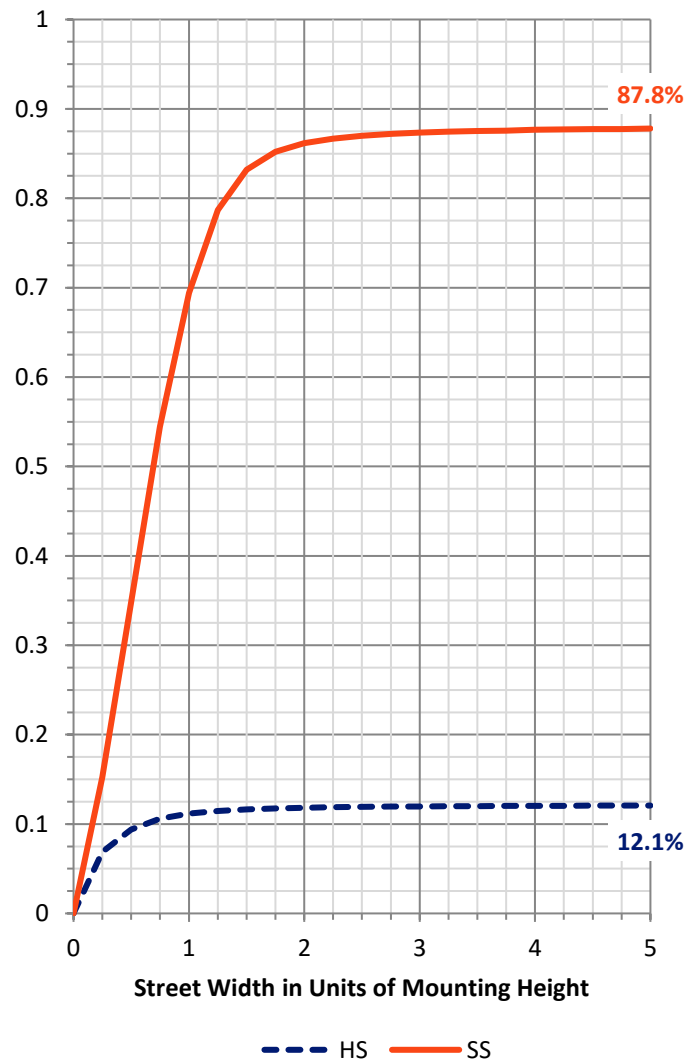
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	832.2	0.0	832.2
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	6010.8	0.0	6010.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	6843.0	0.0	6843.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	1.3
10°-20°	316.0	4.6
20°-30°	649.3	9.5
30°-40°	1147.8	16.8
40°-50°	1524.7	22.3
50°-60°	1446.1	21.1
60°-70°	1103.2	16.1
70°-80°	534.8	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°	6843.0	100.0
0°-180°	6843.0	100.0

Coefficient of Utilization



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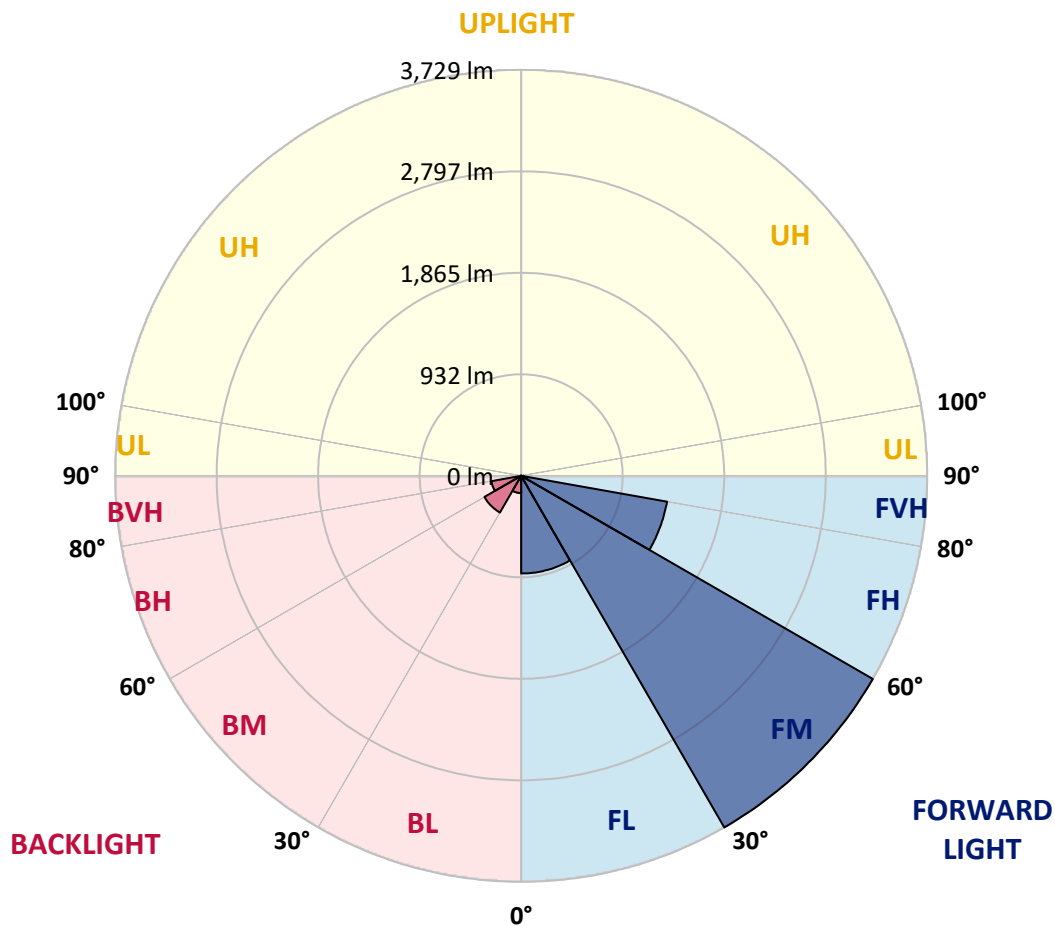
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	897.5	13.1			
FM	(30°-60°)	3729.1	54.5			
FH	(60°-80°)	1360.4	19.9			G1/1800
FVH	(80°-90°)	23.8	0.3			G1/100
BL	(0°-30°)	158.8	2.3	B1/500		
BM	(30°-60°)	389.4	5.7	B1/1000		
BH	(60°-80°)	277.7	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°	904.6	904.6	904.6	904.6	904.6	904.6	904.6	904.6	904.6	904.6	904.6
2.5°	1120.9	1101.2	1123.7	1120.9	1101.2	1088.6	1049.2	1036.6	990.2	956.5	927.0
5°	1351.2	1331.6	1351.2	1345.6	1317.5	1286.6	1222.0	1179.9	1097.0	1024.0	957.9
7.5°	1542.2	1542.2	1550.7	1552.1	1518.4	1470.6	1390.6	1327.3	1210.8	1098.4	993.1
10°	1748.7	1750.1	1768.4	1755.7	1710.8	1646.2	1545.1	1465.0	1324.5	1177.1	1026.8
12.5°	1969.2	1970.7	1976.3	1970.7	1917.3	1834.4	1712.2	1606.9	1445.3	1266.9	1073.1
15°	2189.8	2191.2	2198.2	2188.4	2129.4	2032.5	1893.4	1764.2	1573.2	1368.1	1129.3
17.5°	2396.2	2399.1	2404.7	2392.0	2330.2	2215.1	2073.2	1917.3	1709.4	1476.2	1192.5
20°	2581.7	2584.5	2588.7	2571.8	2510.0	2394.8	2241.7	2078.8	1848.5	1587.2	1261.3
22.5°	2768.5	2771.3	2778.3	2755.8	2687.0	2555.0	2404.7	2236.1	1995.9	1709.4	1341.4
25°	3007.2	3010.1	3015.7	2983.4	2889.3	2734.8	2576.0	2403.3	2156.1	1847.0	1439.7
27.5°	3357.0	3354.2	3354.2	3295.2	3133.7	2932.8	2748.8	2573.2	2328.8	1994.5	1547.9
30°	3789.6	3782.6	3778.4	3698.3	3468.0	3156.1	2925.8	2731.9	2494.6	2150.4	1664.4
32.5°	4177.3	4177.3	4168.9	4084.6	3840.2	3456.7	3114.0	2886.5	2654.7	2307.8	1785.2
35°	4406.2	4416.1	4411.8	4348.6	4170.3	3779.8	3368.2	3071.9	2823.2	2472.1	1929.9
37.5°	4437.1	4456.8	4461.0	4423.1	4329.0	4043.8	3650.6	3272.7	3008.7	2649.1	2070.4
40°	4312.1	4354.3	4354.3	4348.6	4314.9	4168.9	3887.9	3505.9	3199.7	2833.1	2212.2
42.5°	4119.7	4163.2	4157.6	4178.7	4170.3	4139.4	4021.4	3723.6	3390.7	3022.7	2341.5
45°	3868.3	3913.2	3902.0	3939.9	3956.8	3990.5	4007.3	3875.3	3578.9	3229.2	2486.1
47.5°	3465.1	3541.0	3557.8	3625.3	3695.5	3800.8	3880.9	3930.1	3754.5	3451.1	2643.5
50°	2869.6	2976.3	3010.1	3151.9	3344.4	3562.1	3691.3	3862.6	3878.1	3678.6	2813.4
52.5°	2054.9	2178.5	2230.5	2463.7	2859.8	3239.0	3472.2	3713.8	3925.9	3896.4	2997.4
55°	1328.8	1434.1	1484.7	1703.8	2230.5	2826.1	3213.7	3521.3	3899.2	4095.8	3208.1
57.5°	818.9	879.3	913.0	1101.2	1585.8	2296.5	2875.2	3344.4	3817.7	4268.6	3427.2
60°	552.0	587.1	604.0	692.5	1077.3	1716.4	2410.3	3158.9	3711.0	4385.2	3626.7
62.5°	366.6	377.8	394.7	449.5	710.7	1205.1	1851.3	2827.5	3630.9	4392.2	3774.2
65°	283.7	289.3	296.4	320.2	438.2	842.8	1302.1	2290.9	3511.5	4243.3	3820.5
67.5°	223.3	228.9	237.4	250.0	317.4	571.7	886.3	1678.5	3267.1	4010.1	3744.7
70°	175.6	179.8	185.4	196.6	247.2	414.4	585.7	1115.3	2774.1	3788.2	3505.9
72.5°	139.1	143.3	148.9	160.1	200.9	303.4	401.7	695.3	2139.2	3517.1	3046.6
75°	109.6	112.4	116.6	127.8	161.5	236.0	272.5	415.8	1453.8	3021.3	2373.8
77.5°	54.8	67.4	77.3	88.5	118.0	162.9	181.2	230.4	613.8	1550.7	1132.1
80°	32.3	39.3	42.1	49.2	77.3	98.3	98.3	92.7	193.8	595.6	462.1
82.5°	18.3	25.3	26.7	28.1	46.4	56.2	44.9	33.7	39.3	199.5	134.8
85°	5.6	8.4	9.8	11.2	15.5	16.9	15.5	14.0	11.2	19.7	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°	904.6	904.6	904.6	904.6	904.6	904.6	904.6	904.6	904.6	904.6	904.6
2.5°	910.2	891.9	856.8	824.5	793.6	771.1	750.1	730.4	716.3	705.1	703.7
5°	922.8	886.3	818.9	755.7	698.1	650.3	609.6	577.3	553.4	536.6	535.2
7.5°	939.7	883.5	781.0	686.8	601.2	532.3	473.3	429.8	398.9	386.3	376.4
10°	953.7	880.7	743.0	618.0	505.7	418.6	348.3	304.8	282.3	273.9	269.7
12.5°	977.6	883.5	710.7	554.8	422.8	320.2	266.9	243.0	233.2	226.1	224.7
15°	1012.7	896.1	679.8	493.0	338.5	258.4	227.5	212.1	202.3	200.9	199.5
17.5°	1047.8	907.4	651.7	429.8	280.9	224.7	203.7	191.0	184.0	182.6	182.6
20°	1088.6	921.4	620.8	369.4	240.2	202.3	185.4	175.6	167.1	165.7	165.7
22.5°	1136.3	941.1	591.3	316.0	213.5	185.4	171.4	160.1	153.1	151.7	151.7
25°	1200.9	970.6	567.5	276.7	195.2	171.4	158.7	148.9	143.3	140.5	140.5
27.5°	1272.6	1011.3	550.6	252.8	182.6	160.1	147.5	139.1	133.4	130.6	130.6
30°	1352.6	1056.3	539.4	243.0	175.6	150.3	139.1	130.6	123.6	122.2	122.2
32.5°	1441.1	1108.2	532.3	244.4	174.2	143.3	130.6	122.2	116.6	113.8	113.8
35°	1539.4	1165.8	528.1	252.8	177.0	137.7	123.6	115.2	109.6	106.7	106.7
37.5°	1649.0	1233.2	528.1	261.3	184.0	136.2	116.6	108.2	103.9	101.1	101.1
40°	1751.5	1304.9	533.7	271.1	191.0	136.2	111.0	103.9	98.3	95.5	95.5
42.5°	1831.6	1345.6	538.0	280.9	195.2	134.8	105.3	98.3	94.1	91.3	91.3
45°	1922.9	1389.1	529.5	285.1	195.2	132.0	101.1	94.1	89.9	87.1	87.1
47.5°	2024.0	1442.5	528.1	287.9	191.0	126.4	96.9	89.9	87.1	84.3	84.3
50°	2126.6	1501.5	530.9	286.5	185.4	118.0	91.3	87.1	82.9	80.1	80.1
52.5°	2243.1	1563.3	536.6	283.7	172.8	108.2	87.1	82.9	78.7	75.8	74.4
55°	2372.4	1630.7	547.8	278.1	155.9	98.3	82.9	78.7	73.0	70.2	68.8
57.5°	2521.3	1713.6	560.4	266.9	137.7	89.9	78.7	73.0	64.6	60.4	59.0
60°	2663.1	1807.7	574.5	240.2	119.4	81.5	74.4	66.0	57.6	54.8	53.4
62.5°	2796.6	1900.4	581.5	192.4	101.1	74.4	70.2	60.4	52.0	49.2	47.8
65°	2882.2	2001.6	566.1	130.6	82.9	68.8	64.6	56.2	47.8	43.5	43.5
67.5°	2887.9	2049.3	512.7	85.7	67.4	61.8	59.0	50.6	42.1	39.3	37.9
70°	2746.0	1977.7	391.9	67.4	56.2	53.4	53.4	44.9	36.5	33.7	32.3
72.5°	2420.1	1751.5	250.0	54.8	47.8	44.9	44.9	37.9	32.3	28.1	26.7
75°	1910.3	1351.2	133.4	44.9	39.3	37.9	35.1	30.9	26.7	23.9	22.5
77.5°	877.9	595.6	61.8	32.3	29.5	29.5	26.7	22.5	21.1	18.3	18.3
80°	346.9	202.3	30.9	21.1	19.7	19.7	19.7	15.5	15.5	12.6	11.2
82.5°	95.5	42.1	15.5	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)