

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: P835806

Luminaire Tested: **ARCH3-100-722-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835806
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-100-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9532 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 102.6
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



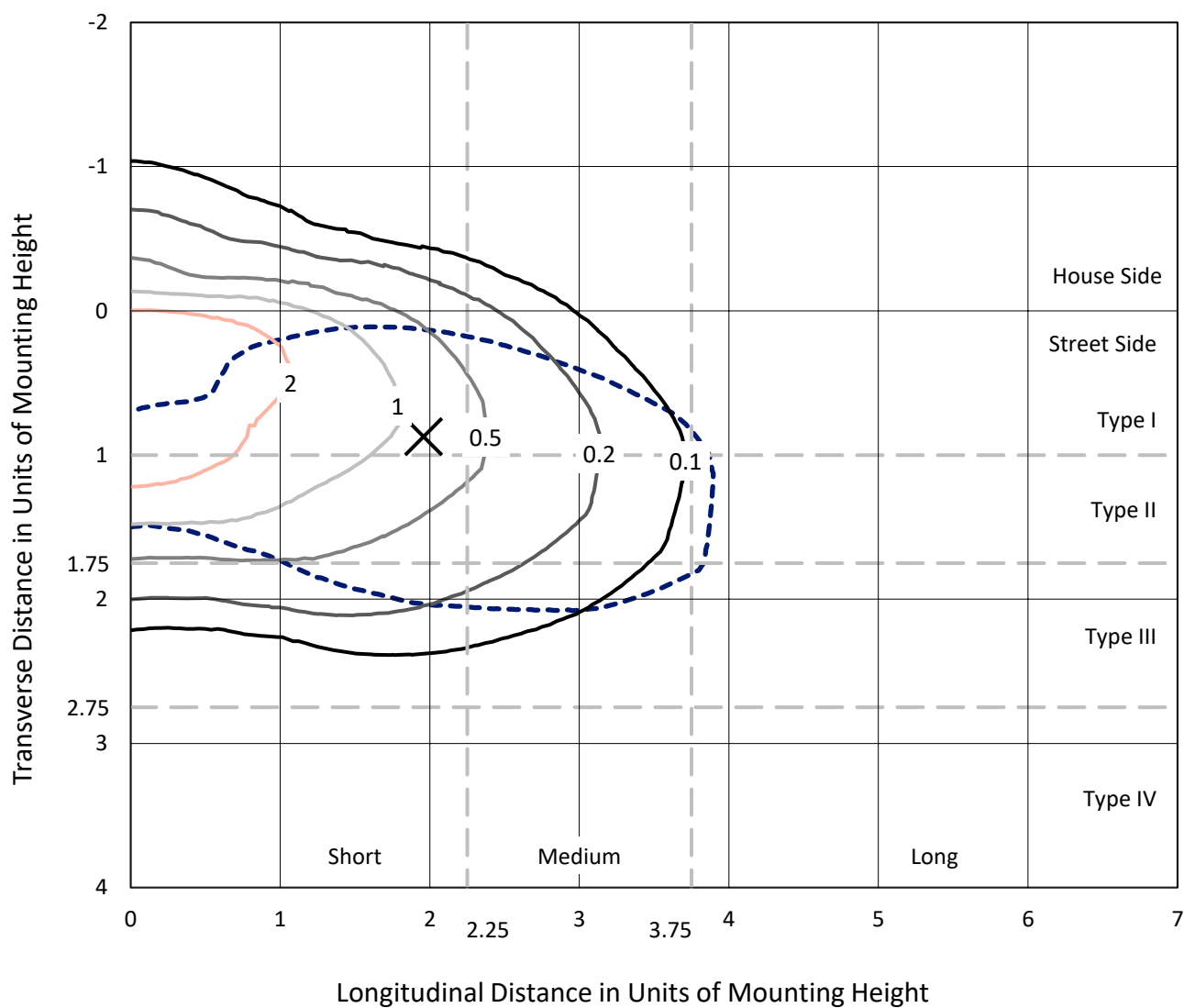
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

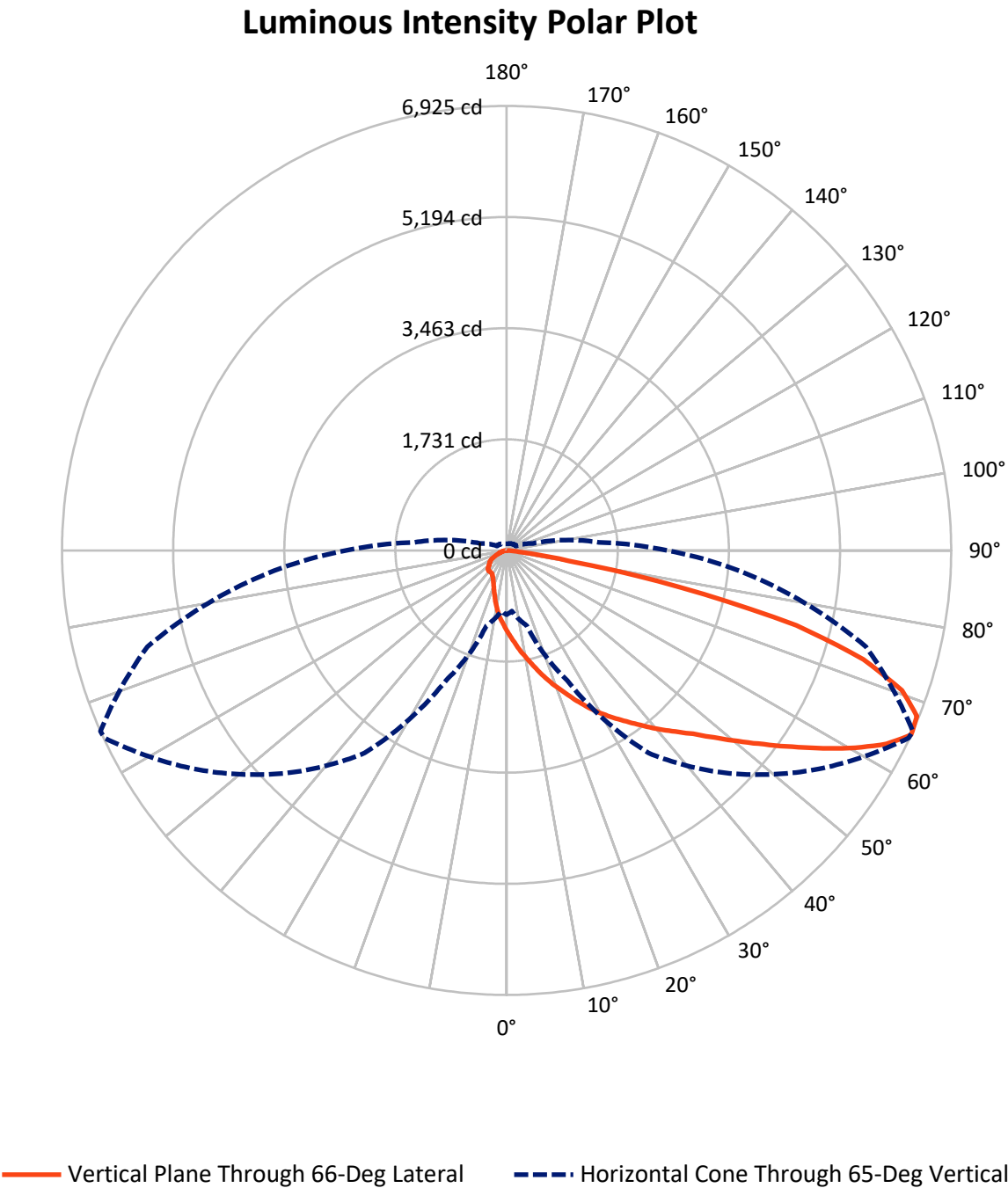
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc

Type III - Short - N/A

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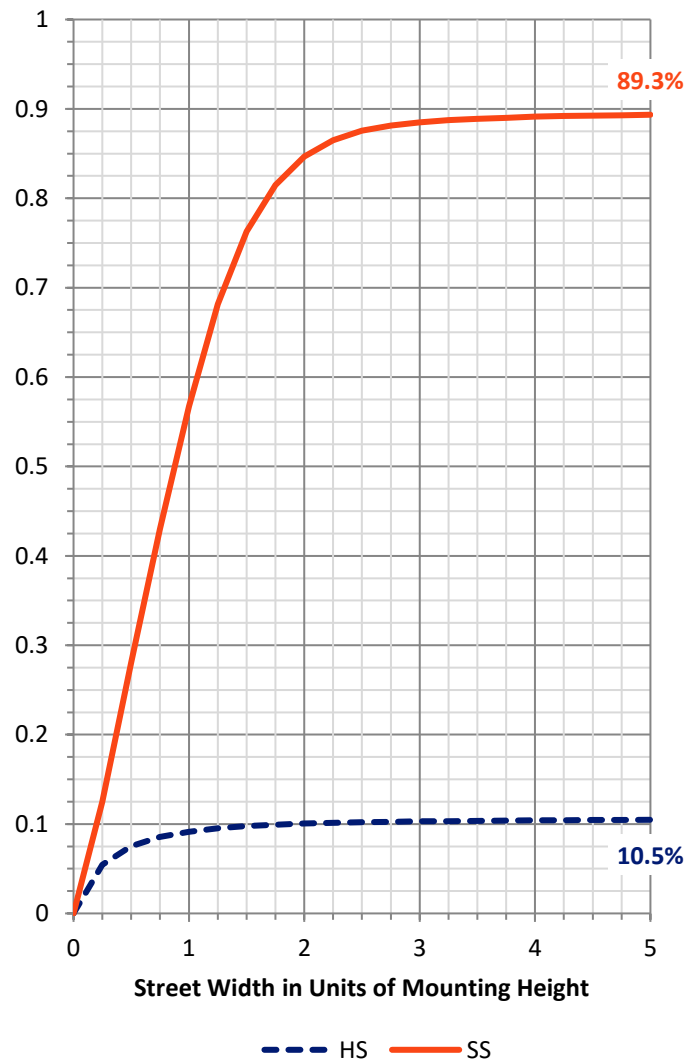
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1008.2	0.0	1008.2
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	8523.8	0.0	8523.8
	% Fixture	89.4	0.0	89.4
Total	Lumens	9532.0	0.0	9532.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	1.3
10°-20°	405.8	4.3
20°-30°	734.2	7.7
30°-40°	1148.2	12.0
40°-50°	1741.8	18.3
50°-60°	2213.0	23.2
60°-70°	2067.8	21.7
70°-80°	1027.7	10.8
80°-90°	69.1	0.7
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°	9532.0	100.0
0°-180°	9532.0	100.0

Coefficient of Utilization



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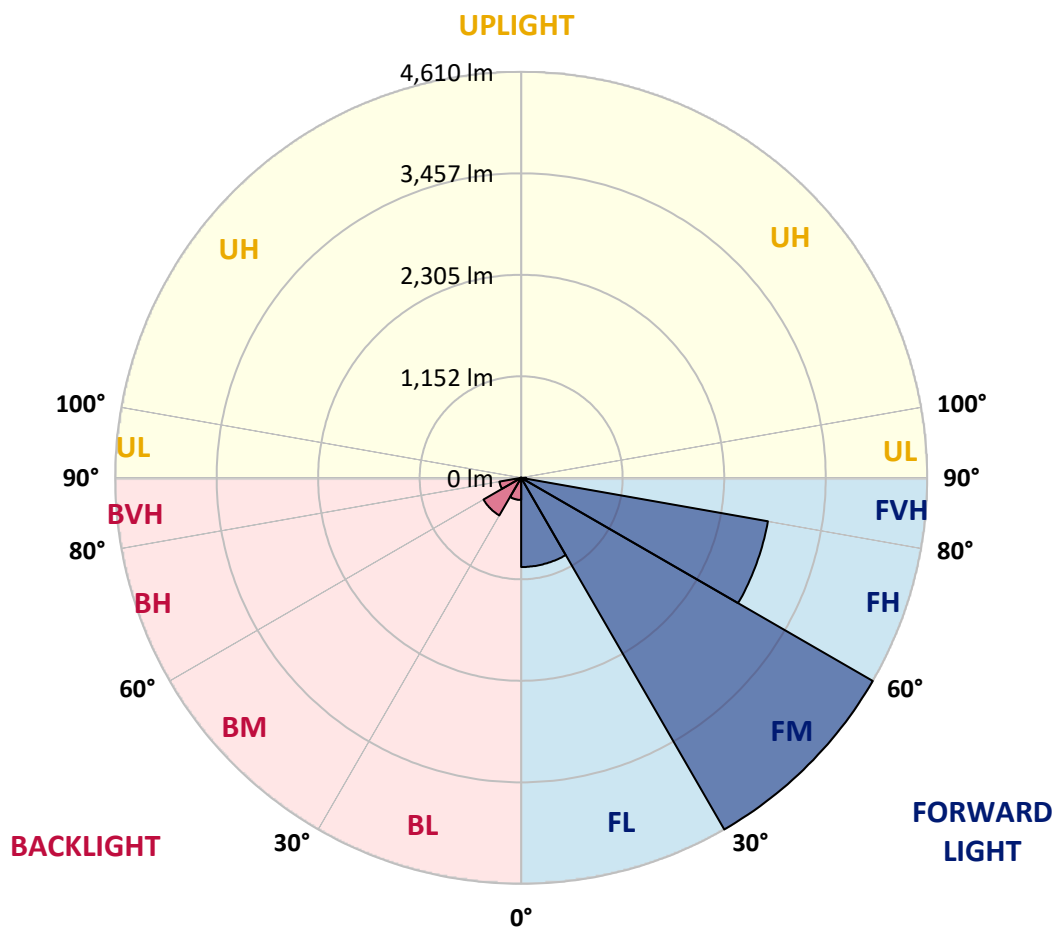
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1012.8	10.6			
FM	(30°-60°)	4609.8	48.4			
FH	(60°-80°)	2844.4	29.8			G2/5000
FVH	(80°-90°)	56.8	0.6			G1/100
BL	(0°-30°)	251.8	2.6	B1/500		
BM	(30°-60°)	493.1	5.2	B1/1000		
BH	(60°-80°)	251.1	2.6	B1/500		G1/500
BVH	(80°-90°)	12.2	0.1			G1/100
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°	65°	66°	75°	85°
0°	1261.5	1261.5	1261.5	1261.5	1261.5	1261.5	1261.5	1261.5	1261.5	1261.5	1261.5
2.5°	1473.4	1485.4	1491.4	1493.4	1447.4	1427.4	1407.5	1361.5	1351.5	1325.5	1291.5
5°	1733.3	1749.3	1745.3	1737.3	1681.3	1617.4	1565.4	1479.4	1465.4	1403.5	1327.5
7.5°	1989.2	2003.2	1999.2	1969.2	1907.3	1817.3	1731.3	1605.4	1585.4	1485.4	1363.5
10°	2203.1	2215.1	2213.1	2183.1	2109.2	1999.2	1895.3	1727.3	1703.3	1561.4	1393.5
12.5°	2379.1	2395.1	2393.1	2373.1	2307.1	2187.1	2069.2	1867.3	1837.3	1653.4	1435.4
15°	2517.0	2537.0	2537.0	2529.0	2483.0	2383.1	2249.1	2021.2	1985.2	1759.3	1487.4
17.5°	2601.0	2617.0	2631.0	2645.0	2613.0	2537.0	2415.1	2175.2	2137.2	1863.3	1541.4
20°	2645.0	2661.0	2671.0	2700.9	2706.9	2669.0	2573.0	2327.1	2287.1	1981.2	1603.4
22.5°	2716.9	2730.9	2732.9	2758.9	2770.9	2780.9	2720.9	2477.0	2445.0	2111.2	1673.3
25°	2836.9	2852.9	2846.9	2858.9	2860.9	2872.9	2866.9	2649.0	2617.0	2259.1	1757.3
27.5°	2990.8	3010.8	3006.8	2994.8	2976.8	2966.8	2992.8	2822.9	2792.9	2407.1	1843.3
30°	3156.8	3180.8	3174.8	3150.8	3102.8	3060.8	3096.8	2986.8	2958.8	2559.0	1939.2
32.5°	3324.7	3352.7	3350.7	3310.7	3228.7	3156.8	3210.7	3140.8	3120.8	2722.9	2043.2
35°	3434.7	3470.6	3466.6	3442.7	3336.7	3274.7	3340.7	3298.7	3284.7	2922.9	2193.1
37.5°	3612.6	3650.6	3616.6	3556.6	3434.7	3402.7	3482.6	3476.6	3466.6	3134.8	2351.1
40°	4044.4	4100.4	4010.4	3764.5	3564.6	3536.6	3650.6	3674.6	3664.6	3344.7	2493.0
42.5°	4496.2	4580.2	4440.3	4100.4	3800.5	3698.6	3834.5	3868.5	3856.5	3524.6	2621.0
45°	4770.1	4806.1	4666.2	4402.3	4218.4	3894.5	4030.4	4086.4	4076.4	3740.5	2784.9
47.5°	4994.1	4980.1	4820.1	4642.2	4676.2	4170.4	4252.3	4362.3	4354.3	3978.4	2964.8
50°	5042.0	5010.0	4946.1	4834.1	4924.1	4450.3	4486.2	4676.2	4668.2	4242.3	3146.8
52.5°	4704.2	4662.2	4836.1	4930.1	4900.1	4654.2	4744.1	5020.0	5016.0	4528.2	3320.7
55°	3860.5	3826.5	4294.3	4780.1	4874.1	4798.1	5030.0	5377.9	5399.9	4832.1	3478.6
57.5°	3036.8	3000.8	3460.7	4404.3	4778.1	4930.1	5363.9	5787.7	5815.7	5162.0	3628.6
60°	2421.1	2367.1	2718.9	3812.5	4598.2	5032.0	5685.8	6237.6	6241.6	5463.9	3720.5
62.5°	1645.4	1585.4	1975.2	3062.8	4296.3	5048.0	5933.7	6625.4	6641.4	5689.8	3736.5
65°	999.6	949.6	1213.5	2237.1	3850.5	4912.1	5937.7	6911.3	6925.3	5793.7	3640.6
67.5°	579.8	559.8	693.7	1393.5	3110.8	4546.2	5687.8	6867.3	6893.3	5749.8	3422.7
70°	337.9	335.9	385.8	689.7	2195.1	3820.5	5130.0	6497.5	6535.5	5519.8	3088.8
72.5°	247.9	251.9	271.9	369.9	1271.5	2750.9	4344.3	5753.8	5811.7	5070.0	2613.0
75°	195.9	197.9	215.9	251.9	667.7	1555.4	3254.7	4618.2	4664.2	4268.3	2041.2
77.5°	145.9	149.9	163.9	177.9	309.9	713.7	1831.3	2844.9	2768.9	2343.1	985.6
80°	106.0	116.0	122.0	128.0	163.9	275.9	549.8	991.6	983.6	1023.6	465.8
82.5°	68.0	76.0	82.0	86.0	98.0	131.9	163.9	221.9	239.9	397.8	185.9
85°	30.0	34.0	38.0	46.0	42.0	46.0	68.0	44.0	38.0	60.0	34.0
87.5°	0.0	0.0	6.0	10.0	8.0	4.0	12.0	8.0	6.0	6.0	6.0
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°	1261.5	1261.5	1261.5	1261.5	1261.5	1261.5	1261.5	1261.5	1261.5	1261.5	1261.5
2.5°	1273.5	1251.5	1205.5	1161.5	1135.6	1101.6	1071.6	1043.6	1041.6	1033.6	1019.6
5°	1289.5	1247.5	1161.5	1079.6	1017.6	951.6	895.7	851.7	835.7	823.7	807.7
7.5°	1305.5	1239.5	1111.6	991.6	893.7	801.7	735.7	675.7	657.7	641.7	631.8
10°	1311.5	1225.5	1053.6	893.7	765.7	667.7	597.8	553.8	537.8	529.8	523.8
12.5°	1329.5	1217.5	999.6	801.7	653.7	563.8	513.8	487.8	481.8	475.8	469.8
15°	1353.5	1217.5	945.6	711.7	565.8	493.8	463.8	445.8	441.8	439.8	435.8
17.5°	1379.5	1217.5	893.7	635.8	501.8	447.8	425.8	415.8	413.8	411.8	409.8
20°	1415.4	1219.5	837.7	569.8	455.8	413.8	395.8	383.9	381.9	379.9	379.9
22.5°	1451.4	1223.5	783.7	519.8	425.8	387.8	365.9	353.9	349.9	349.9	349.9
25°	1497.4	1235.5	733.7	477.8	399.8	363.9	335.9	325.9	323.9	323.9	321.9
27.5°	1551.4	1249.5	689.7	445.8	373.9	335.9	307.9	297.9	293.9	293.9	291.9
30°	1609.4	1263.5	653.7	421.8	347.9	307.9	281.9	269.9	265.9	267.9	265.9
32.5°	1673.3	1283.5	625.8	405.8	323.9	283.9	259.9	245.9	243.9	243.9	241.9
35°	1781.3	1339.5	621.8	397.8	303.9	265.9	241.9	227.9	225.9	225.9	223.9
37.5°	1897.3	1403.5	639.8	393.8	287.9	249.9	227.9	213.9	211.9	211.9	211.9
40°	1995.2	1451.4	659.7	393.8	277.9	235.9	215.9	203.9	203.9	203.9	203.9
42.5°	2061.2	1455.4	655.7	393.8	269.9	225.9	207.9	195.9	195.9	197.9	195.9
45°	2159.2	1475.4	639.8	387.8	263.9	217.9	199.9	189.9	187.9	189.9	189.9
47.5°	2275.1	1511.4	623.8	363.9	261.9	209.9	193.9	181.9	179.9	181.9	179.9
50°	2385.1	1543.4	615.8	331.9	257.9	201.9	185.9	173.9	171.9	173.9	171.9
52.5°	2477.0	1557.4	601.8	309.9	247.9	193.9	177.9	165.9	161.9	163.9	163.9
55°	2551.0	1553.4	581.8	291.9	229.9	185.9	167.9	157.9	151.9	151.9	149.9
57.5°	2619.0	1555.4	563.8	273.9	209.9	173.9	159.9	147.9	139.9	137.9	135.9
60°	2645.0	1545.4	531.8	249.9	189.9	163.9	149.9	135.9	128.0	126.0	124.0
62.5°	2609.0	1509.4	489.8	207.9	171.9	151.9	139.9	126.0	118.0	116.0	114.0
65°	2507.0	1441.4	425.8	163.9	155.9	137.9	128.0	118.0	108.0	104.0	102.0
67.5°	2333.1	1343.5	345.9	131.9	137.9	126.0	120.0	108.0	96.0	92.0	90.0
70°	2085.2	1213.5	259.9	112.0	122.0	112.0	108.0	96.0	86.0	82.0	80.0
72.5°	1737.3	1003.6	181.9	96.0	106.0	98.0	94.0	86.0	76.0	70.0	70.0
75°	1313.5	719.7	120.0	82.0	88.0	84.0	78.0	72.0	66.0	62.0	60.0
77.5°	565.8	279.9	74.0	62.0	72.0	70.0	62.0	58.0	56.0	52.0	52.0
80°	243.9	114.0	46.0	46.0	52.0	50.0	48.0	44.0	44.0	42.0	40.0
82.5°	90.0	46.0	28.0	34.0	38.0	34.0	34.0	34.0	34.0	32.0	32.0
85°	22.0	14.0	14.0	20.0	22.0	20.0	22.0	20.0	20.0	20.0	18.0
87.5°	6.0	6.0	8.0	8.0	8.0	8.0	8.0	6.0	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)