

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: P1210008

Luminaire Tested: **ARCH1-50-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210008
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-50-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1470mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4606 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

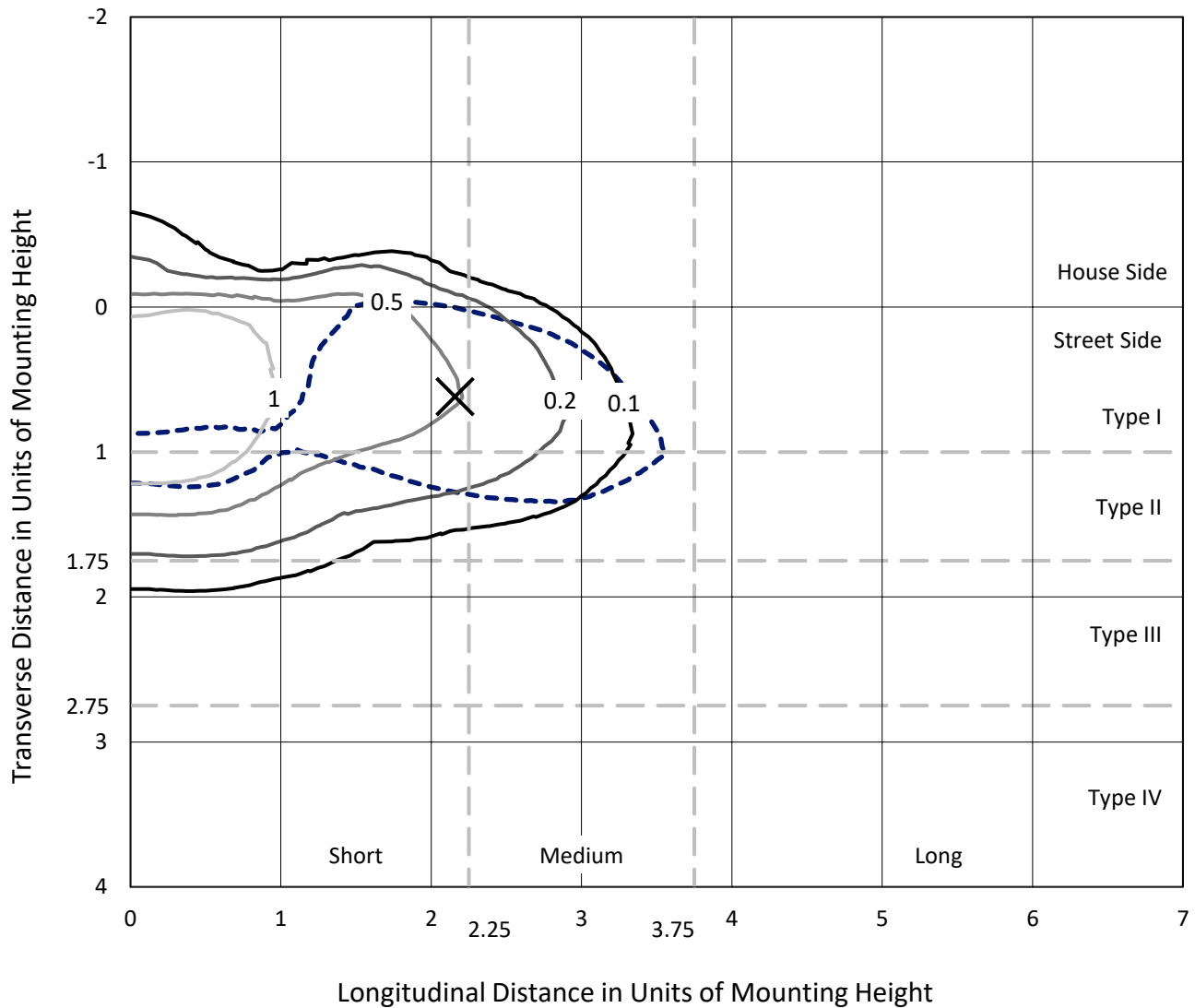
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

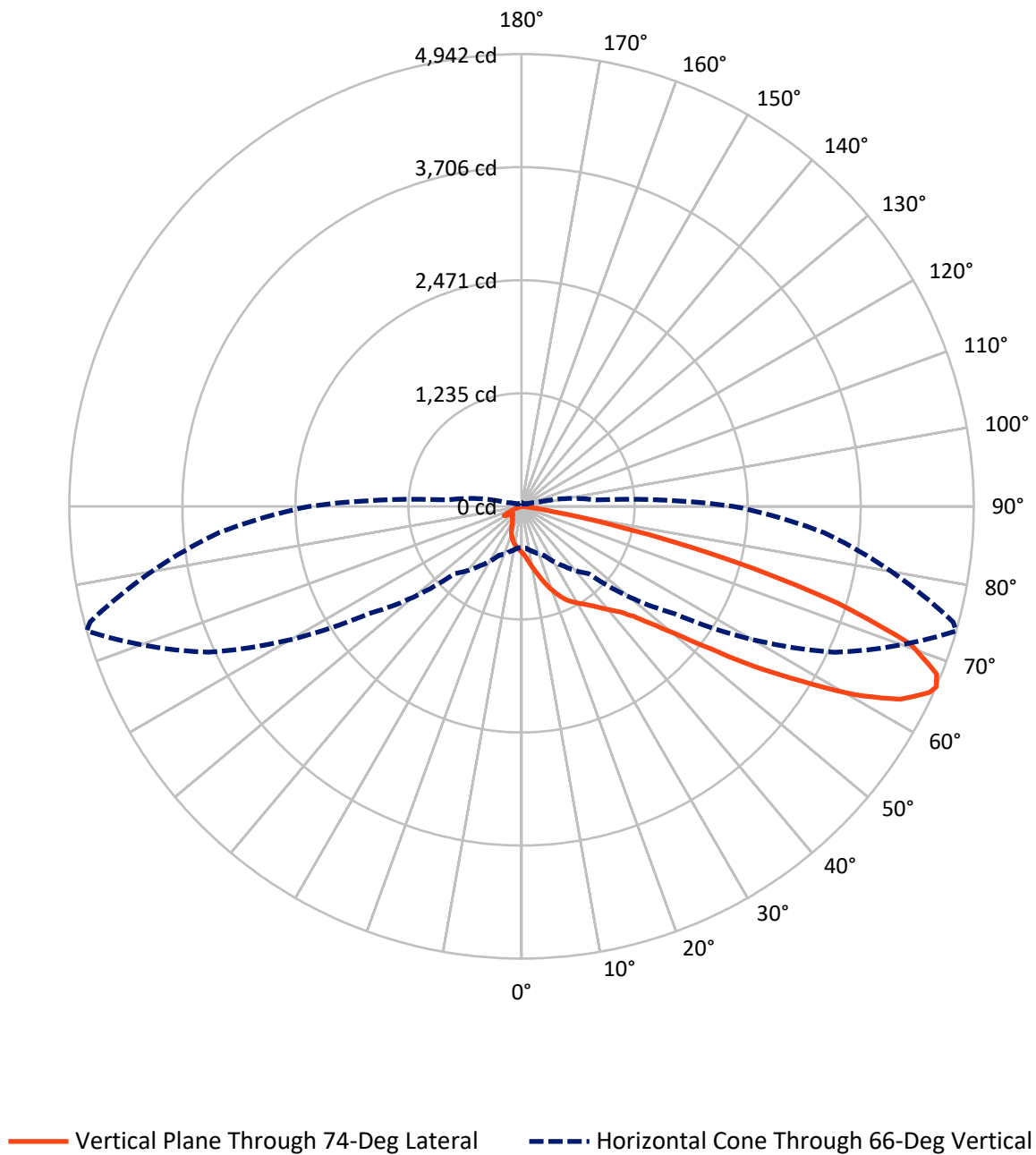
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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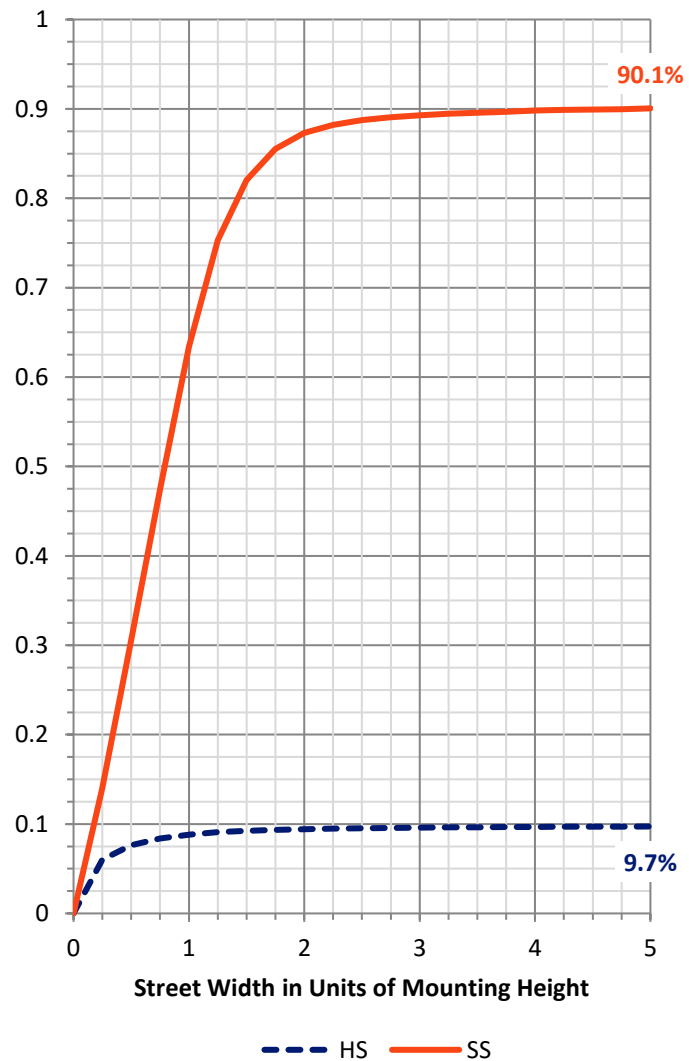
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	451.5	0.0	451.5
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	4154.5	0.0	4154.5
	% Fixture	90.2	0.0	90.2
Total	Lumens	4606.0	0.0	4606.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.1	1.1
10°-20°	157.3	3.4
20°-30°	300.3	6.5
30°-40°	526.3	11.4
40°-50°	902.4	19.6
50°-60°	1173.6	25.5
60°-70°	1062.4	23.1
70°-80°	409.9	8.9
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°	4606.0	100.0
0°-180°	4606.0	100.0

Coefficient of Utilization



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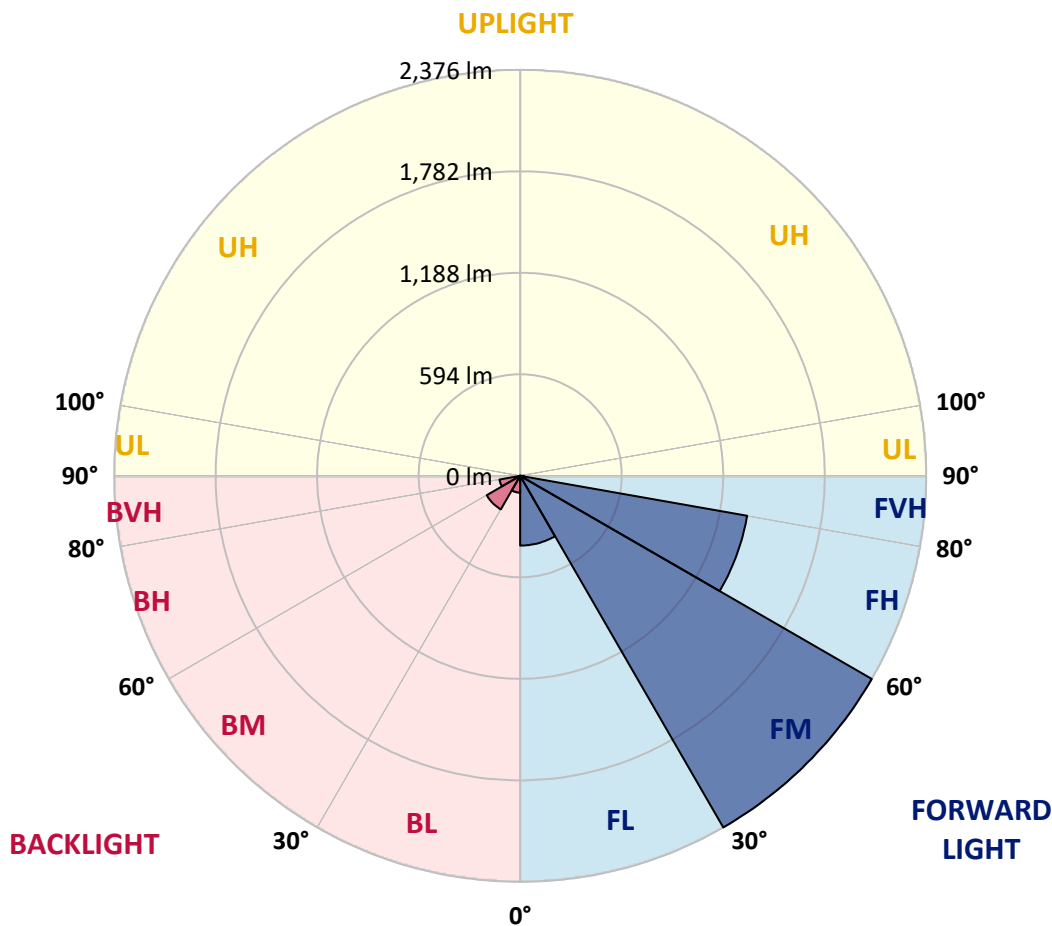
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	408.2	8.9			
FM	(30°-60°)	2376.0	51.6			
FH	(60°-80°)	1348.9	29.3			G1/1800
FVH	(80°-90°)	21.4	0.5			G1/100
BL	(0°-30°)	98.5	2.1	B0/110		
BM	(30°-60°)	226.3	4.9	B1/1000		
BH	(60°-80°)	123.4	2.7	B1/500		G1/500
BVH	(80°-90°)	3.3	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°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8
2.5°	603.7	598.7	589.6	588.8	581.3	572.2	556.5	540.0	528.4	526.8	512.7
5°	722.8	720.3	711.2	705.4	691.3	669.8	633.4	597.1	566.5	563.2	531.7
7.5°	754.2	755.8	757.5	763.3	758.3	748.4	721.1	669.8	621.9	614.4	559.8
10°	759.1	757.5	757.5	764.9	779.0	793.0	789.7	745.9	683.9	674.8	598.7
12.5°	812.9	815.4	809.6	806.3	803.8	811.2	836.0	817.0	749.2	741.8	645.8
15°	882.4	881.5	873.3	873.3	865.8	853.4	869.1	883.2	827.8	818.7	699.6
17.5°	932.8	936.1	935.3	940.2	937.8	921.2	913.0	941.9	908.8	897.2	760.8
20°	973.3	982.4	985.7	1001.4	1008.9	997.3	975.8	994.0	986.5	975.8	822.8
22.5°	1016.3	1023.8	1029.6	1056.8	1077.5	1075.0	1047.7	1043.6	1061.8	1051.9	884.0
25°	1059.3	1062.6	1080.0	1113.1	1146.2	1154.4	1126.3	1094.1	1129.6	1120.5	938.6
27.5°	1106.5	1108.1	1128.8	1169.3	1215.6	1233.0	1210.7	1151.1	1181.7	1181.7	988.2
30°	1192.5	1209.0	1217.3	1253.7	1294.2	1318.2	1291.7	1211.5	1228.0	1235.5	1040.3
32.5°	1377.7	1380.2	1377.7	1393.4	1401.7	1415.7	1385.1	1279.3	1275.2	1283.4	1091.6
35°	1660.5	1650.6	1624.1	1601.0	1553.0	1526.5	1486.9	1366.1	1333.0	1344.6	1142.0
37.5°	2003.7	1989.6	1929.3	1858.2	1755.6	1649.8	1600.1	1472.0	1406.6	1421.5	1196.6
40°	2331.2	2322.1	2250.1	2162.5	1987.2	1806.1	1701.0	1561.3	1488.5	1494.3	1252.0
42.5°	2600.8	2599.1	2538.7	2446.9	2222.0	1974.8	1820.1	1648.9	1574.5	1583.6	1309.9
45°	2805.0	2789.3	2744.6	2678.5	2449.4	2150.1	1964.0	1782.1	1712.6	1723.4	1396.7
47.5°	2805.0	2807.5	2836.4	2829.8	2608.2	2314.6	2121.1	1949.9	1916.9	1926.8	1539.8
50°	2576.8	2599.9	2728.9	2837.3	2690.9	2442.8	2290.6	2160.0	2193.9	2208.8	1789.5
52.5°	2125.3	2164.1	2388.2	2635.5	2629.7	2507.3	2466.0	2427.1	2579.3	2605.7	2158.3
55°	1615.0	1640.7	1932.6	2257.6	2363.4	2454.4	2618.9	2766.1	3089.5	3083.7	2532.9
57.5°	1206.5	1230.5	1481.9	1842.4	1982.2	2225.3	2697.5	3154.0	3595.6	3617.9	2884.4
60°	887.3	905.5	1119.7	1415.7	1617.5	1874.7	2666.1	3536.0	4178.6	4152.9	3194.5
62.5°	656.6	666.5	821.2	1013.8	1281.8	1527.4	2468.4	3797.3	4644.1	4592.0	3367.3
65°	507.7	511.1	591.3	693.8	932.0	1187.5	2174.0	3837.0	4901.3	4845.9	3364.0
66°	452.3	454.8	513.5	592.9	793.0	1039.5	2045.0	3773.4	4941.8	4883.1	3322.7
67.5°	379.6	377.9	412.6	464.7	595.4	802.1	1816.0	3587.3	4893.9	4864.1	3190.4
70°	281.2	282.0	299.4	311.8	348.1	444.1	1311.5	3111.8	4510.2	4508.5	2827.3
72.5°	208.4	210.9	224.1	226.6	217.5	240.6	755.8	2475.1	3608.0	3608.8	2113.7
75°	156.3	160.4	164.6	166.2	157.9	152.2	341.5	1665.5	2373.3	2356.0	1196.6
77.5°	119.1	120.7	124.0	121.6	119.9	105.0	142.2	812.1	1171.8	1067.6	387.8
80°	86.8	86.8	90.1	86.8	86.0	75.3	77.7	260.5	344.0	286.1	83.5
82.5°	54.6	53.8	56.2	55.4	53.8	48.0	45.5	72.8	79.4	71.1	40.5
85°	30.6	29.8	28.9	28.1	25.6	21.5	24.8	27.3	36.4	37.2	28.9
87.5°	10.8	10.8	9.9	9.1	7.4	7.4	9.1	9.1	13.2	13.2	14.9
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°	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8	502.8
2.5°	506.1	497.0	483.8	466.4	454.0	441.6	428.4	420.9	410.2	407.7	411.0
5°	515.2	498.6	465.6	429.2	397.8	369.6	343.2	327.5	311.8	306.0	308.5
7.5°	534.2	506.1	449.9	391.1	339.0	296.9	265.5	247.3	233.2	227.4	229.1
10°	562.3	519.3	435.0	348.1	281.2	236.5	210.0	198.5	190.2	186.9	187.7
12.5°	596.2	538.3	416.0	305.1	231.5	192.7	180.3	177.8	176.1	174.5	175.3
15°	634.3	554.9	393.6	263.0	192.7	171.2	167.0	166.2	165.4	165.4	165.4
17.5°	674.0	569.8	368.8	223.3	167.9	157.9	155.5	155.5	155.5	156.3	156.3
20°	711.2	581.3	339.9	187.7	153.8	145.5	143.9	143.9	144.7	145.5	145.5
22.5°	747.6	586.3	306.0	162.9	142.2	134.8	132.3	132.3	132.3	133.1	133.1
25°	779.0	586.3	272.1	147.2	132.3	124.9	121.6	120.7	121.6	121.6	121.6
27.5°	805.4	583.8	239.0	136.4	122.4	114.9	111.6	110.8	112.5	113.3	113.3
30°	833.6	580.5	212.5	126.5	114.1	106.7	103.4	103.4	105.8	109.2	109.2
32.5°	860.9	583.0	191.9	118.3	105.8	100.1	96.8	97.6	102.5	107.5	107.5
35°	889.8	588.0	179.4	112.5	100.1	94.3	91.8	94.3	99.2	104.2	104.2
37.5°	918.7	593.7	172.0	107.5	95.1	89.3	87.7	91.0	96.8	101.7	102.5
40°	949.3	598.7	163.7	102.5	91.8	85.2	84.3	87.7	95.1	100.1	100.9
42.5°	987.4	608.6	153.8	98.4	88.5	80.2	81.0	83.5	91.0	98.4	99.2
45°	1061.8	640.1	143.9	94.3	84.3	77.7	76.1	77.7	86.0	94.3	95.9
47.5°	1201.6	711.2	133.1	90.1	80.2	76.1	69.5	71.1	78.6	87.7	88.5
50°	1469.5	862.5	127.4	86.0	76.9	70.3	62.8	62.8	68.6	76.9	76.9
52.5°	1887.1	1133.7	130.7	82.7	72.8	64.5	57.1	56.2	59.5	65.3	65.3
55°	2337.8	1431.4	143.1	79.4	67.8	61.2	52.9	48.8	51.3	54.6	54.6
57.5°	2695.0	1581.1	177.0	77.7	62.0	58.7	48.0	42.2	44.7	48.0	48.0
60°	2852.1	1493.5	215.0	79.4	57.9	54.6	43.0	37.2	41.3	44.7	45.5
62.5°	2724.8	1229.7	230.7	75.3	52.1	48.8	42.2	34.7	39.7	42.2	43.0
65°	2449.4	934.5	180.3	65.3	48.0	42.2	38.0	33.1	37.2	39.7	39.7
66°	2318.8	814.5	153.8	60.4	46.3	39.7	36.4	33.1	36.4	38.0	38.9
67.5°	2116.2	642.5	114.1	52.9	43.0	36.4	33.9	31.4	34.7	36.4	36.4
70°	1654.7	382.9	68.6	41.3	37.2	32.3	30.6	28.9	31.4	32.3	32.3
72.5°	1036.2	181.9	43.8	30.6	31.4	30.6	25.6	27.3	28.1	28.9	28.9
75°	502.0	71.9	29.8	22.3	25.6	28.9	20.7	24.0	24.8	26.5	25.6
77.5°	139.8	34.7	19.0	16.5	22.3	22.3	15.7	19.0	22.3	28.1	25.6
80°	40.5	22.3	12.4	12.4	15.7	15.7	10.8	13.2	14.9	16.5	17.4
82.5°	28.1	14.9	8.3	9.1	9.1	9.9	6.6	6.6	8.3	8.3	9.1
85°	22.3	6.6	5.0	5.8	4.1	5.0	3.3	3.3	4.1	3.3	3.3
87.5°	9.1	3.3	3.3	3.3	2.5	2.5	1.7	0.8	0.8	0.8	0.8
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)