

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: P799860

Luminaire Tested: **ARCH2-60-722-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-60-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 485mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5211 lumens
Efficiency: N/A
Efficacy: 81.7 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): 63.8
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

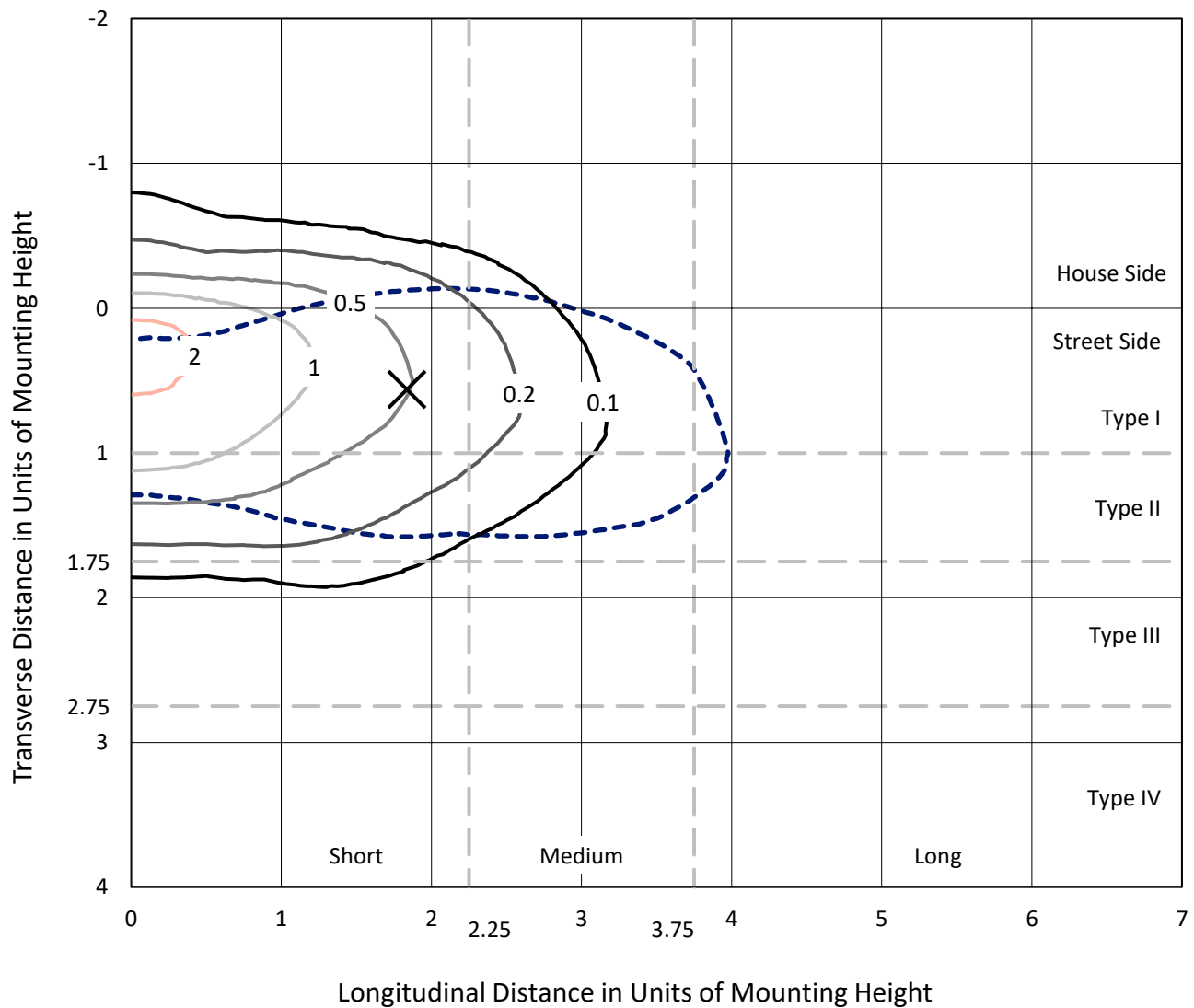


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

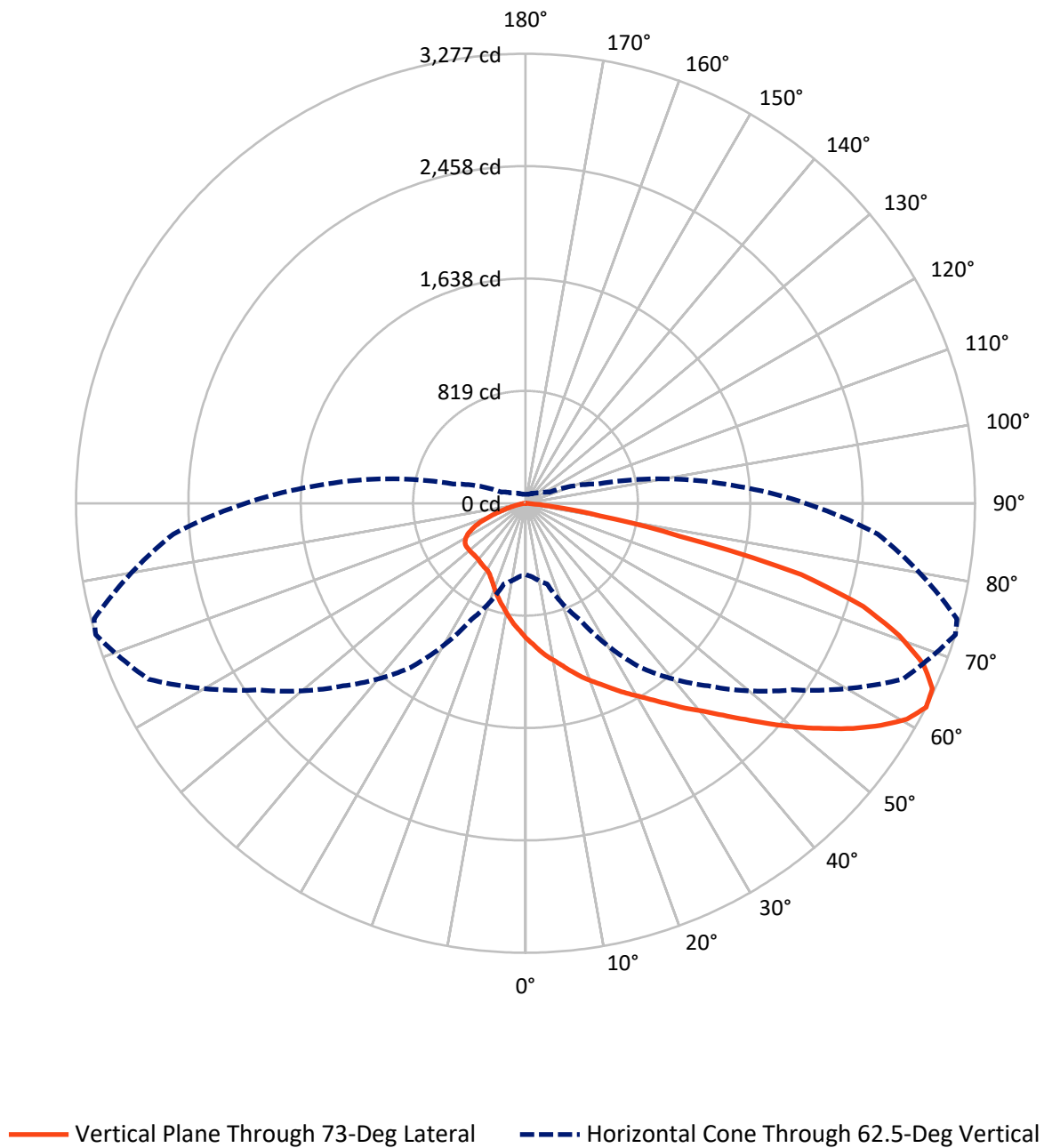


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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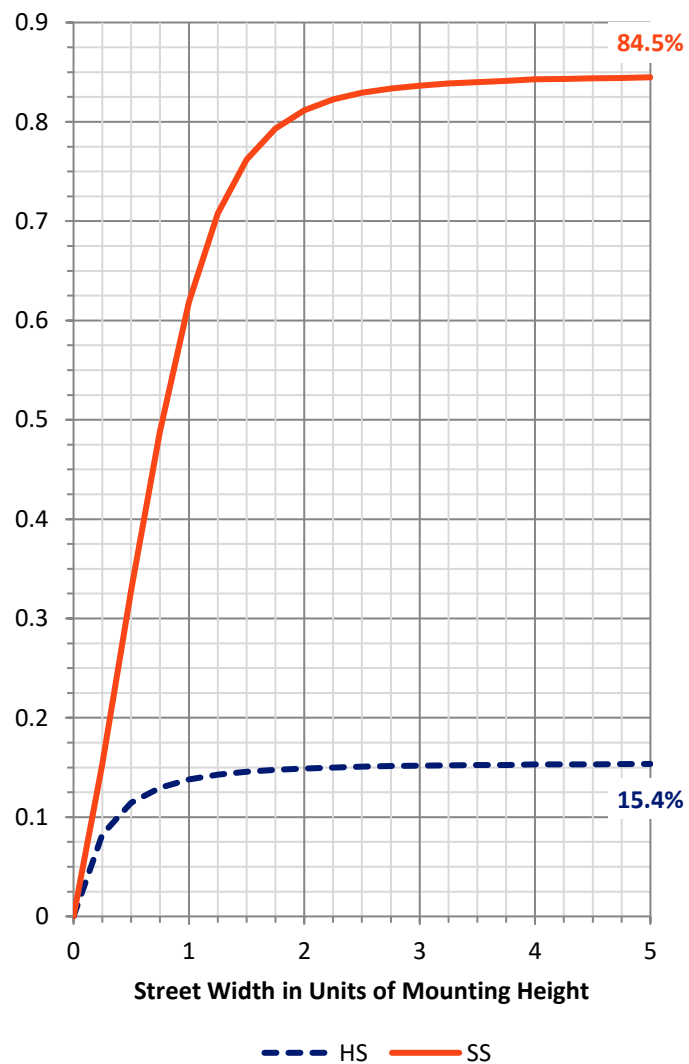
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	807.8	0.0	807.8
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	4403.2	0.0	4403.2
	% Fixture	84.5	0.0	84.5
Total	Lumens	5211.0	0.0	5211.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.3	1.8
10°-20°	287.6	5.5
20°-30°	478.8	9.2
30°-40°	722.4	13.9
40°-50°	1009.7	19.4
50°-60°	1115.3	21.4
60°-70°	971.6	18.6
70°-80°	490.8	9.4
80°-90°	39.4	0.8
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°	5211.0	100.0
0°-180°	5211.0	100.0

Coefficient of Utilization



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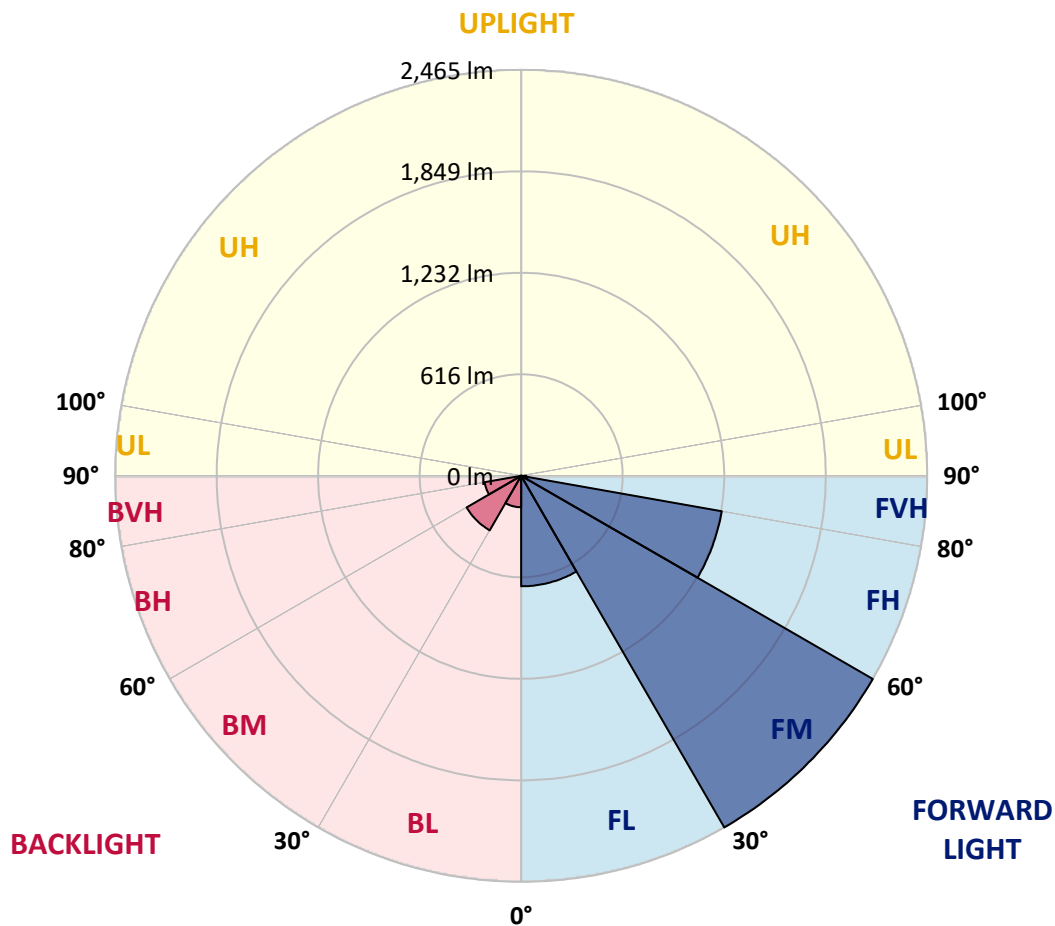
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	670.8	12.9			
FM	(30°-60°)	2465.0	47.3			
FH	(60°-80°)	1236.9	23.7			G1/1800
FVH	(80°-90°)	30.5	0.6			G1/100
BL	(0°-30°)	190.9	3.7	B1/500		
BM	(30°-60°)	382.5	7.3	B1/1000		
BH	(60°-80°)	225.5	4.3	B1/500		G1/500
BVH	(80°-90°)	8.9	0.2			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°	73°	75°	85°
0°	986.7	986.7	986.7	986.7	986.7	986.7	986.7	986.7	986.7	986.7	986.7
2.5°	1123.0	1135.5	1128.6	1133.2	1110.5	1095.7	1078.7	1045.8	1027.6	1025.3	1003.7
5°	1287.6	1301.2	1289.9	1286.5	1246.7	1212.7	1174.1	1116.2	1077.6	1070.7	1023.0
7.5°	1452.3	1464.7	1451.1	1440.9	1387.5	1327.4	1270.6	1185.4	1125.2	1113.9	1038.9
10°	1568.1	1579.4	1569.2	1559.0	1503.3	1442.0	1361.4	1250.1	1168.4	1150.2	1049.2
12.5°	1655.5	1662.3	1657.8	1648.7	1596.5	1530.6	1453.4	1322.8	1217.2	1194.5	1065.1
15°	1727.0	1738.4	1732.7	1725.9	1675.9	1610.1	1536.3	1398.9	1274.0	1245.6	1088.9
17.5°	1774.7	1782.7	1783.8	1783.8	1739.5	1674.8	1603.3	1468.1	1330.8	1294.4	1111.6
20°	1796.3	1805.4	1811.1	1820.1	1783.8	1728.2	1655.5	1527.2	1384.1	1343.2	1133.2
22.5°	1806.5	1814.5	1829.2	1849.7	1820.1	1773.6	1706.6	1581.7	1437.5	1394.3	1158.2
25°	1814.5	1824.7	1846.3	1884.9	1864.4	1824.7	1766.8	1644.1	1501.1	1456.8	1194.5
27.5°	1836.0	1848.5	1869.0	1915.5	1890.5	1871.2	1830.4	1711.1	1568.1	1522.7	1238.8
30°	1911.0	1921.2	1920.1	1949.6	1918.9	1913.2	1884.9	1775.9	1632.8	1587.4	1291.0
32.5°	2047.2	2057.5	2032.5	2021.1	1954.1	1955.3	1943.9	1845.1	1710.0	1663.4	1351.2
35°	2193.7	2205.1	2172.1	2152.8	2040.4	2007.5	2013.2	1931.4	1796.3	1749.7	1426.1
37.5°	2324.3	2337.9	2309.5	2281.1	2167.6	2091.5	2090.4	2027.9	1895.1	1847.4	1509.0
40°	2395.8	2411.7	2428.7	2412.9	2293.6	2209.6	2173.3	2126.7	1992.7	1943.9	1598.7
42.5°	2429.9	2474.2	2504.8	2494.6	2397.0	2311.8	2268.6	2230.0	2112.0	2064.3	1705.5
45°	2334.5	2335.6	2400.4	2456.0	2437.8	2381.1	2373.1	2345.9	2248.2	2202.8	1825.8
47.5°	2215.3	2206.2	2251.6	2350.4	2401.5	2416.3	2462.8	2474.2	2403.8	2358.3	1948.4
50°	1929.1	1934.8	2082.4	2224.4	2324.3	2419.7	2526.4	2605.9	2563.9	2520.7	2077.9
52.5°	1569.2	1582.8	1752.0	2064.3	2222.1	2385.6	2563.9	2737.6	2727.4	2686.5	2207.3
55°	1258.1	1279.7	1459.1	1797.4	2091.5	2309.5	2579.8	2858.0	2896.6	2859.1	2334.5
57.5°	961.7	984.4	1135.5	1482.9	1924.6	2185.8	2568.4	2963.5	3054.4	3030.5	2451.5
60°	724.4	747.1	843.6	1202.5	1715.7	2047.2	2511.6	3032.8	3196.3	3171.3	2536.6
62.5°	518.9	537.1	608.6	935.6	1461.3	1882.6	2372.0	3033.9	3276.9	3256.5	2577.5
65°	373.6	373.6	431.5	667.6	1222.9	1685.0	2160.8	2894.3	3259.9	3254.2	2549.1
67.5°	269.1	271.4	317.9	466.7	975.4	1445.4	1887.1	2645.6	3128.2	3156.6	2446.9
70°	190.8	196.4	218.0	325.9	736.9	1141.1	1594.2	2319.7	2890.9	2940.8	2249.3
72.5°	147.6	151.0	165.8	227.1	538.2	848.2	1270.6	1956.4	2574.1	2630.9	1980.2
75°	113.5	117.0	128.3	166.9	386.1	595.0	902.7	1518.1	2075.6	2176.7	1590.8
77.5°	82.9	87.4	95.4	121.5	224.8	378.1	547.3	853.9	1145.7	1193.4	833.4
80°	38.6	44.3	55.6	78.3	121.5	178.3	194.2	329.3	550.7	575.7	451.9
82.5°	21.6	27.3	31.8	47.7	61.3	63.6	65.9	82.9	207.8	229.4	189.6
85°	10.2	13.6	14.8	20.4	20.4	18.2	21.6	15.9	34.1	40.9	39.7
87.5°	0.0	1.1	2.3	5.7	4.5	3.4	3.4	3.4	3.4	4.5	3.4
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°	986.7	986.7	986.7	986.7	986.7	986.7	986.7	986.7	986.7	986.7	986.7
2.5°	993.5	978.8	944.7	915.2	895.9	878.8	856.1	845.9	827.7	831.2	820.9
5°	999.2	972.0	911.8	856.1	815.3	778.9	739.2	716.5	691.5	689.2	681.3
7.5°	1002.6	960.6	874.3	796.0	733.5	677.9	624.5	595.0	564.3	557.5	550.7
10°	999.2	943.6	835.7	733.5	650.6	581.4	521.2	483.7	451.9	444.0	437.2
12.5°	1002.6	934.5	799.4	675.6	576.8	498.5	430.3	391.7	362.2	354.3	349.7
15°	1010.6	928.8	768.7	623.4	511.0	423.5	356.5	323.6	299.8	291.8	289.5
17.5°	1017.4	923.1	735.8	572.3	445.1	357.7	299.8	272.5	252.1	244.1	241.9
20°	1026.5	915.2	702.8	523.4	387.2	305.4	254.3	230.5	214.6	208.9	207.8
22.5°	1034.4	909.5	672.2	474.6	333.8	263.4	220.3	201.0	189.6	183.9	183.9
25°	1054.8	911.8	646.1	429.2	294.1	230.5	194.2	179.4	170.3	166.9	166.9
27.5°	1078.7	920.9	625.6	390.6	260.0	205.5	176.0	163.5	159.0	154.4	155.6
30°	1112.7	939.0	612.0	358.8	235.0	186.2	161.2	152.2	147.6	146.5	146.5
32.5°	1155.9	968.5	610.9	338.4	216.9	171.5	151.0	143.1	140.8	139.7	139.7
35°	1207.0	994.7	604.1	329.3	205.5	161.2	143.1	137.4	136.3	136.3	136.3
37.5°	1268.3	1037.8	599.5	316.8	199.8	155.6	137.4	132.8	132.8	132.8	132.8
40°	1331.9	1073.0	592.7	305.4	197.6	152.2	134.0	128.3	128.3	128.3	128.3
42.5°	1408.0	1124.1	590.4	299.8	194.2	149.9	129.4	122.6	123.8	123.8	124.9
45°	1499.9	1182.0	589.3	294.1	193.0	147.6	124.9	117.0	118.1	117.0	117.0
47.5°	1593.0	1249.0	592.7	290.7	191.9	145.3	121.5	111.3	111.3	110.1	110.1
50°	1690.7	1310.3	595.0	287.3	189.6	140.8	115.8	106.7	104.5	102.2	103.3
52.5°	1782.7	1367.1	596.1	281.6	182.8	134.0	111.3	101.1	97.6	94.2	95.4
55°	1874.6	1421.6	598.4	274.8	173.7	127.2	105.6	95.4	90.8	86.3	86.3
57.5°	1957.5	1469.3	592.7	257.7	163.5	120.4	99.9	88.6	81.8	77.2	77.2
60°	2014.3	1503.3	575.7	232.8	149.9	112.4	94.2	81.8	73.8	70.4	70.4
62.5°	2041.6	1509.0	545.0	191.9	132.8	104.5	87.4	74.9	68.1	65.9	65.9
65°	2015.4	1484.0	497.3	144.2	114.7	95.4	80.6	69.3	62.5	56.8	56.8
67.5°	1924.6	1413.6	431.5	109.0	97.6	86.3	73.8	63.6	55.6	51.1	51.1
70°	1741.8	1267.2	333.8	87.4	82.9	74.9	67.0	56.8	50.0	44.3	44.3
72.5°	1502.2	1074.1	235.0	70.4	70.4	63.6	56.8	50.0	43.1	38.6	38.6
75°	1152.5	794.8	157.8	56.8	57.9	53.4	46.6	40.9	36.3	32.9	32.9
77.5°	629.0	392.9	96.5	42.0	43.1	40.9	36.3	32.9	30.7	27.3	27.3
80°	305.4	172.6	55.6	29.5	30.7	29.5	27.3	23.8	23.8	21.6	21.6
82.5°	128.3	64.7	29.5	20.4	20.4	18.2	17.0	17.0	17.0	15.9	15.9
85°	31.8	12.5	12.5	11.4	11.4	11.4	10.2	10.2	10.2	7.9	9.1
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	3.4	1.1	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)