

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: P836596

Luminaire Tested: **ARCH3-50-722-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836596
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-50-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5345 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 53.6
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

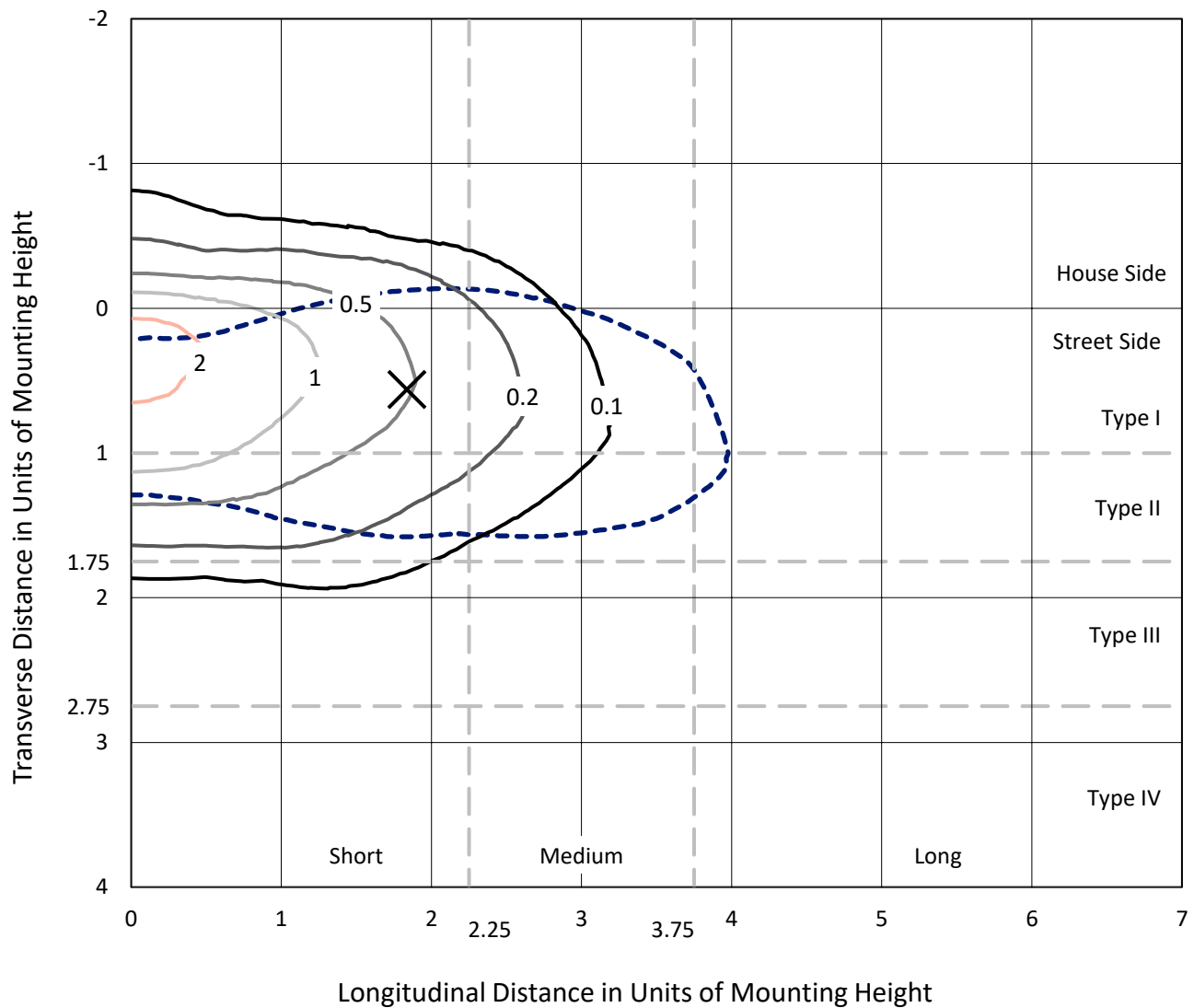


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Iso-Footcandle Lines of Horizontal Illumination

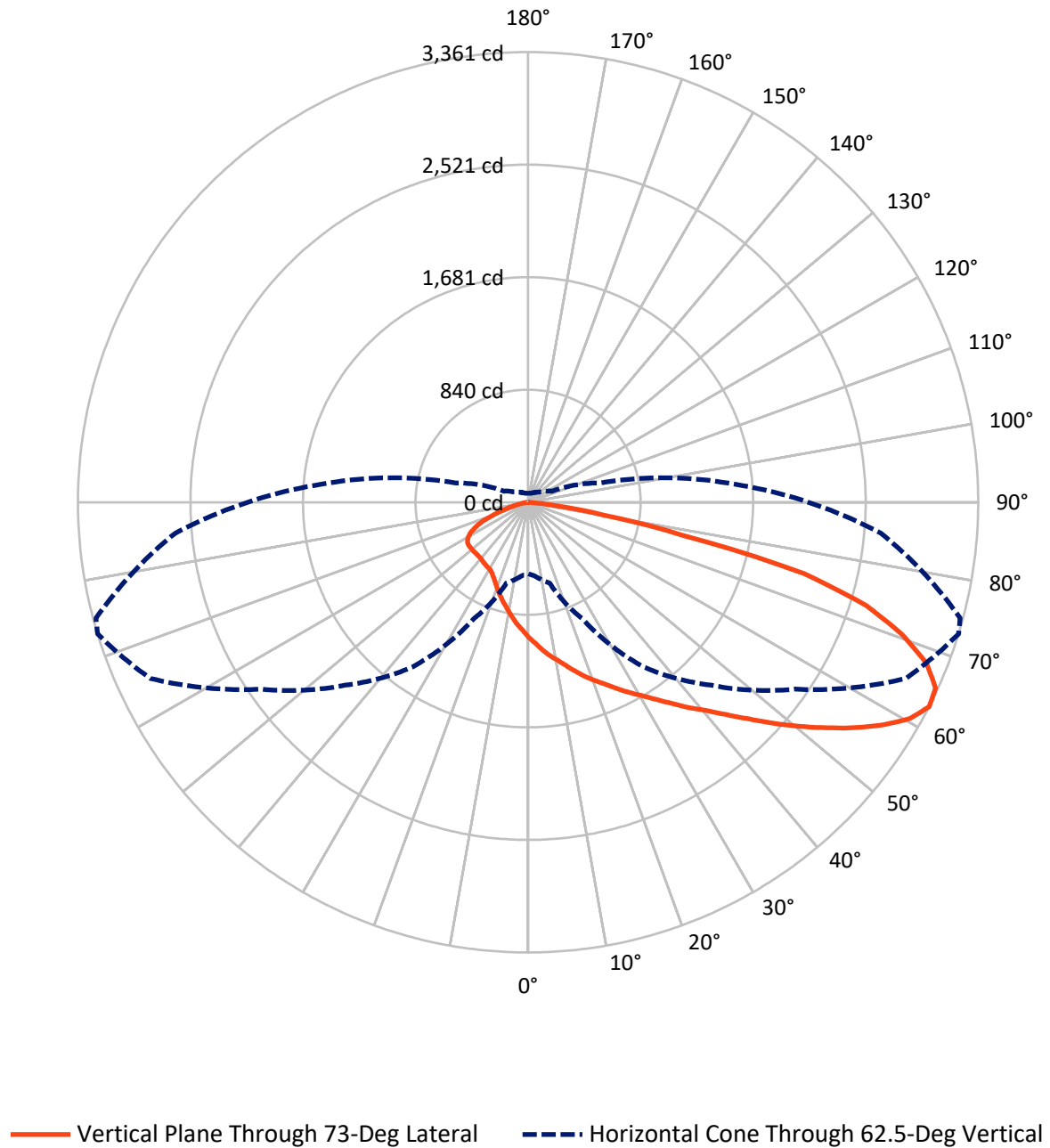
✕ Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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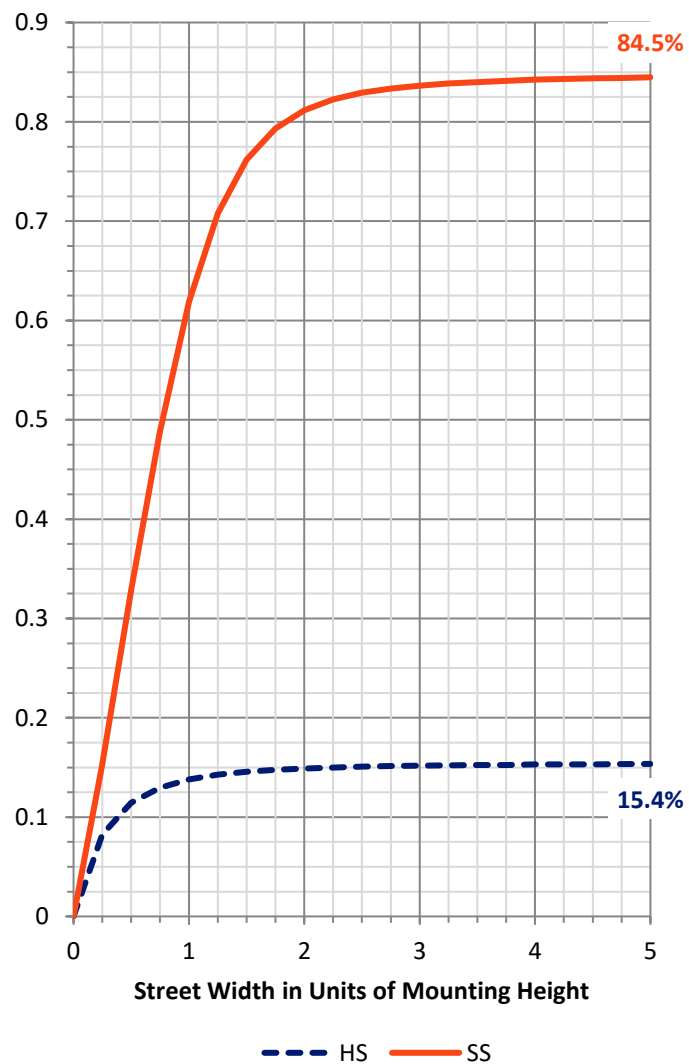
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	828.6	0.0	828.6
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	4516.5	0.0	4516.5
	% Fixture	84.5	0.0	84.5
Total	Lumens	5345.0	0.0	5345.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.8	1.8
10°-20°	295.0	5.5
20°-30°	491.1	9.2
30°-40°	741.0	13.9
40°-50°	1035.7	19.4
50°-60°	1144.0	21.4
60°-70°	996.6	18.6
70°-80°	503.4	9.4
80°-90°	40.4	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°	5345.0	100.0
0°-180°	5345.0	100.0

Coefficient of Utilization



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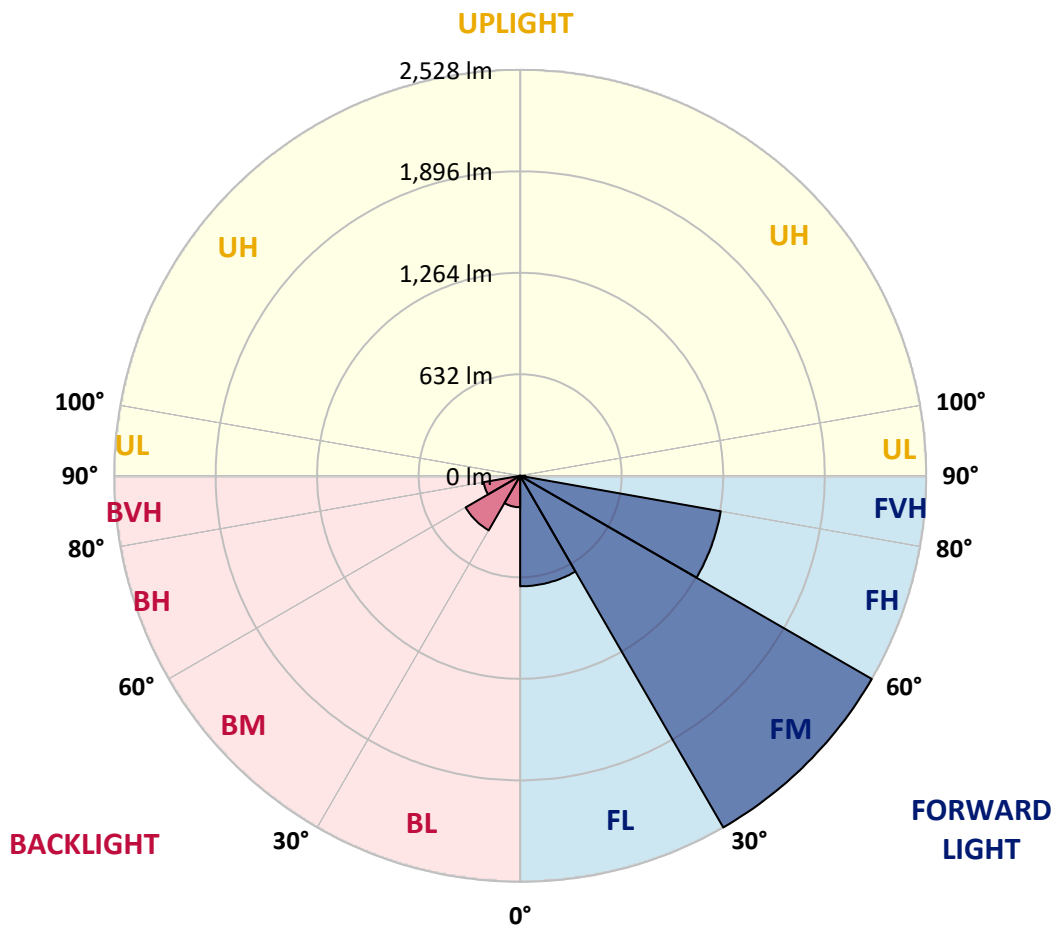
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	688.1	12.9			
FM	(30°-60°)	2528.4	47.3			
FH	(60°-80°)	1268.7	23.7			G1/1800
FVH	(80°-90°)	31.3	0.6			G1/100
BL	(0°-30°)	195.8	3.7	B1/500		
BM	(30°-60°)	392.3	7.3	B1/1000		
BH	(60°-80°)	231.3	4.3	B1/500		G1/500
BVH	(80°-90°)	9.1	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°	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1
2.5°	1151.8	1164.7	1157.7	1162.3	1139.0	1123.9	1106.4	1072.6	1054.0	1051.7	1029.6
5°	1320.7	1334.7	1323.1	1319.6	1278.8	1243.9	1204.3	1144.9	1105.3	1098.3	1049.4
7.5°	1489.6	1502.4	1488.4	1477.9	1423.2	1361.5	1303.3	1215.9	1154.2	1142.5	1065.7
10°	1608.4	1620.0	1609.6	1599.1	1542.0	1479.1	1396.4	1282.3	1198.4	1179.8	1076.1
12.5°	1698.1	1705.1	1700.4	1691.1	1637.5	1570.0	1490.8	1356.8	1248.5	1225.2	1092.4
15°	1771.4	1783.1	1777.3	1770.3	1719.0	1651.5	1575.8	1434.9	1306.7	1277.6	1116.9
17.5°	1820.4	1828.5	1829.7	1829.7	1784.3	1717.9	1644.5	1505.9	1365.0	1327.7	1140.2
20°	1842.5	1851.8	1857.6	1866.9	1829.7	1772.6	1698.1	1566.5	1419.7	1377.8	1162.3
22.5°	1853.0	1861.1	1876.3	1897.2	1866.9	1819.2	1750.5	1622.4	1474.5	1430.2	1188.0
25°	1861.1	1871.6	1893.7	1933.3	1912.4	1871.6	1812.2	1686.4	1539.7	1494.3	1225.2
27.5°	1883.3	1896.1	1917.0	1964.8	1939.2	1919.4	1877.4	1755.1	1608.4	1561.8	1270.6
30°	1960.1	1970.6	1969.4	1999.7	1968.3	1962.4	1933.3	1821.5	1674.8	1628.2	1324.2
32.5°	2099.9	2110.4	2084.7	2073.1	2004.4	2005.5	1993.9	1892.6	1754.0	1706.2	1385.9
35°	2250.1	2261.8	2228.0	2208.2	2092.9	2059.1	2064.9	1981.1	1842.5	1794.7	1462.8
37.5°	2384.1	2398.0	2368.9	2339.8	2223.3	2145.3	2144.1	2080.1	1943.8	1894.9	1547.8
40°	2457.4	2473.7	2491.2	2474.9	2352.6	2266.4	2229.2	2181.4	2044.0	1993.9	1639.8
42.5°	2492.4	2537.8	2569.2	2558.8	2458.6	2371.2	2327.0	2287.4	2166.3	2117.3	1749.3
45°	2394.5	2395.7	2462.1	2519.2	2500.5	2442.3	2434.1	2406.2	2306.0	2259.4	1872.8
47.5°	2272.2	2262.9	2309.5	2410.8	2463.2	2478.4	2526.1	2537.8	2465.6	2419.0	1998.6
50°	1978.8	1984.6	2136.0	2281.6	2384.1	2481.9	2591.4	2672.9	2629.8	2585.5	2131.3
52.5°	1609.6	1623.5	1797.1	2117.3	2279.2	2446.9	2629.8	2808.0	2797.5	2755.6	2264.1
55°	1290.4	1312.6	1496.6	1843.7	2145.3	2368.9	2646.1	2931.4	2971.0	2932.6	2394.5
57.5°	986.5	1009.8	1164.7	1521.0	1974.1	2242.0	2634.5	3039.8	3132.9	3108.5	2514.5
60°	743.1	766.3	865.3	1233.4	1759.8	2099.9	2576.2	3110.8	3278.5	3252.9	2601.8
62.5°	532.2	550.9	624.3	959.7	1498.9	1931.0	2433.0	3112.0	3361.2	3340.2	2643.8
65°	383.2	383.2	442.6	684.8	1254.3	1728.4	2216.3	2968.7	3343.7	3337.9	2614.7
67.5°	276.0	278.4	326.1	478.7	1000.4	1482.6	1935.7	2713.7	3208.6	3237.7	2509.8
70°	195.7	201.5	223.6	334.3	755.9	1170.5	1635.2	2379.4	2965.2	3016.5	2307.2
72.5°	151.4	154.9	170.0	232.9	552.0	870.0	1303.3	2006.7	2640.3	2698.5	2031.2
75°	116.5	120.0	131.6	171.2	396.0	610.3	925.9	1557.1	2129.0	2232.6	1631.7
77.5°	85.0	89.7	97.8	124.6	230.6	387.8	561.4	875.8	1175.1	1224.1	854.9
80°	39.6	45.4	57.1	80.4	124.6	182.9	199.2	337.8	564.9	590.5	463.5
82.5°	22.1	28.0	32.6	48.9	62.9	65.2	67.6	85.0	213.1	235.3	194.5
85°	10.5	14.0	15.1	21.0	21.0	18.6	22.1	16.3	34.9	41.9	40.8
87.5°	0.0	1.2	2.3	5.8	4.7	3.5	3.5	3.5	3.5	4.7	3.5
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°	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1	1012.1
2.5°	1019.1	1003.9	969.0	938.7	918.9	901.4	878.2	867.7	849.0	852.5	842.0
5°	1024.9	996.9	935.2	878.2	836.2	799.0	758.2	734.9	709.3	706.9	698.8
7.5°	1028.4	985.3	896.8	816.4	752.4	695.3	640.6	610.3	578.8	571.8	564.9
10°	1024.9	967.8	857.2	752.4	667.3	596.3	534.6	496.1	463.5	455.4	448.4
12.5°	1028.4	958.5	819.9	693.0	591.6	511.3	441.4	401.8	371.5	363.4	358.7
15°	1036.5	952.7	788.5	639.4	524.1	434.4	365.7	331.9	307.5	299.3	297.0
17.5°	1043.5	946.9	754.7	587.0	456.5	366.9	307.5	279.5	258.6	250.4	248.1
20°	1052.9	938.7	720.9	536.9	397.1	313.3	260.9	236.4	220.1	214.3	213.1
22.5°	1061.0	932.9	689.5	486.8	342.4	270.2	225.9	206.1	194.5	188.7	188.7
25°	1082.0	935.2	662.7	440.2	301.6	236.4	199.2	184.0	174.7	171.2	171.2
27.5°	1106.4	944.5	641.7	400.6	266.7	210.8	180.5	167.7	163.1	158.4	159.6
30°	1141.4	963.2	627.8	368.0	241.1	191.0	165.4	156.1	151.4	150.2	150.2
32.5°	1185.6	993.5	626.6	347.1	222.4	175.9	154.9	146.7	144.4	143.3	143.3
35°	1238.0	1020.2	619.6	337.8	210.8	165.4	146.7	140.9	139.8	139.8	139.8
37.5°	1300.9	1064.5	614.9	324.9	205.0	159.6	140.9	136.3	136.3	136.3	136.3
40°	1366.1	1100.6	608.0	313.3	202.7	156.1	137.4	131.6	131.6	131.6	131.6
42.5°	1444.2	1153.0	605.6	307.5	199.2	153.7	132.8	125.8	126.9	126.9	128.1
45°	1538.5	1212.4	604.5	301.6	198.0	151.4	128.1	120.0	121.1	120.0	120.0
47.5°	1634.0	1281.1	608.0	298.2	196.8	149.1	124.6	114.1	114.1	113.0	113.0
50°	1734.2	1344.0	610.3	294.7	194.5	144.4	118.8	109.5	107.1	104.8	106.0
52.5°	1828.5	1402.2	611.4	288.8	187.5	137.4	114.1	103.7	100.2	96.7	97.8
55°	1922.8	1458.2	613.8	281.8	178.2	130.4	108.3	97.8	93.2	88.5	88.5
57.5°	2007.9	1507.1	608.0	264.4	167.7	123.5	102.5	90.8	83.9	79.2	79.2
60°	2066.1	1542.0	590.5	238.8	153.7	115.3	96.7	83.9	75.7	72.2	72.2
62.5°	2094.1	1547.8	559.0	196.8	136.3	107.1	89.7	76.9	69.9	67.6	67.6
65°	2067.3	1522.2	510.1	147.9	117.6	97.8	82.7	71.0	64.1	58.2	58.2
67.5°	1974.1	1450.0	442.6	111.8	100.2	88.5	75.7	65.2	57.1	52.4	52.4
70°	1786.6	1299.8	342.4	89.7	85.0	76.9	68.7	58.2	51.2	45.4	45.4
72.5°	1540.8	1101.8	241.1	72.2	72.2	65.2	58.2	51.2	44.3	39.6	39.6
75°	1182.1	815.3	161.9	58.2	59.4	54.7	47.8	41.9	37.3	33.8	33.8
77.5°	645.2	403.0	99.0	43.1	44.3	41.9	37.3	33.8	31.4	28.0	28.0
80°	313.3	177.0	57.1	30.3	31.4	30.3	28.0	24.5	24.5	22.1	22.1
82.5°	131.6	66.4	30.3	21.0	21.0	18.6	17.5	17.5	17.5	16.3	16.3
85°	32.6	12.8	12.8	11.6	11.6	11.6	10.5	10.5	10.5	8.2	9.3
87.5°	4.7	4.7	4.7	4.7	4.7	4.7	3.5	1.2	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)