

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: P836600

Luminaire Tested: **ARCH3-50-722-U-T4W-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-50-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5296 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - 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

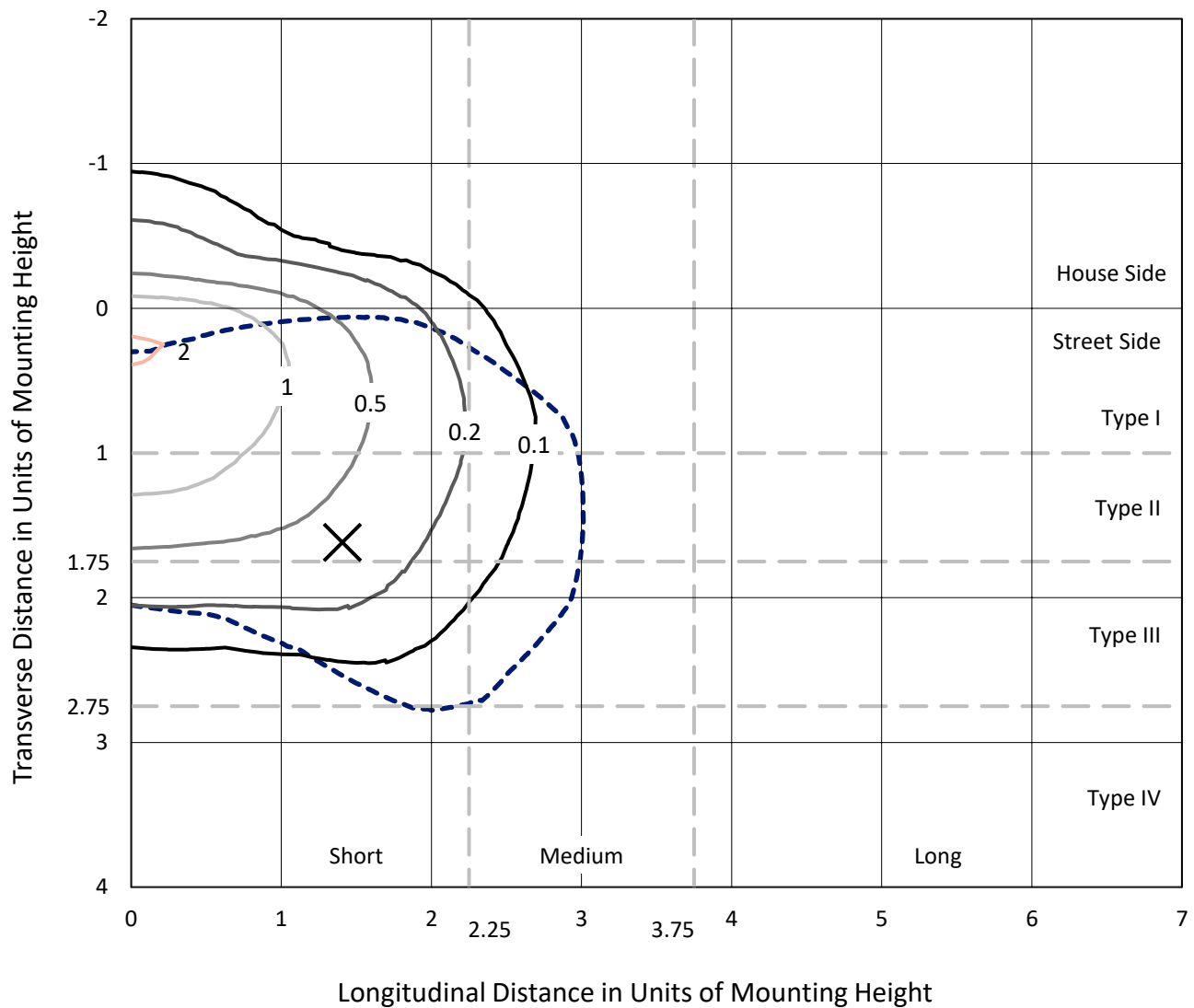


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Iso-Footcandle Lines of Horizontal Illumination

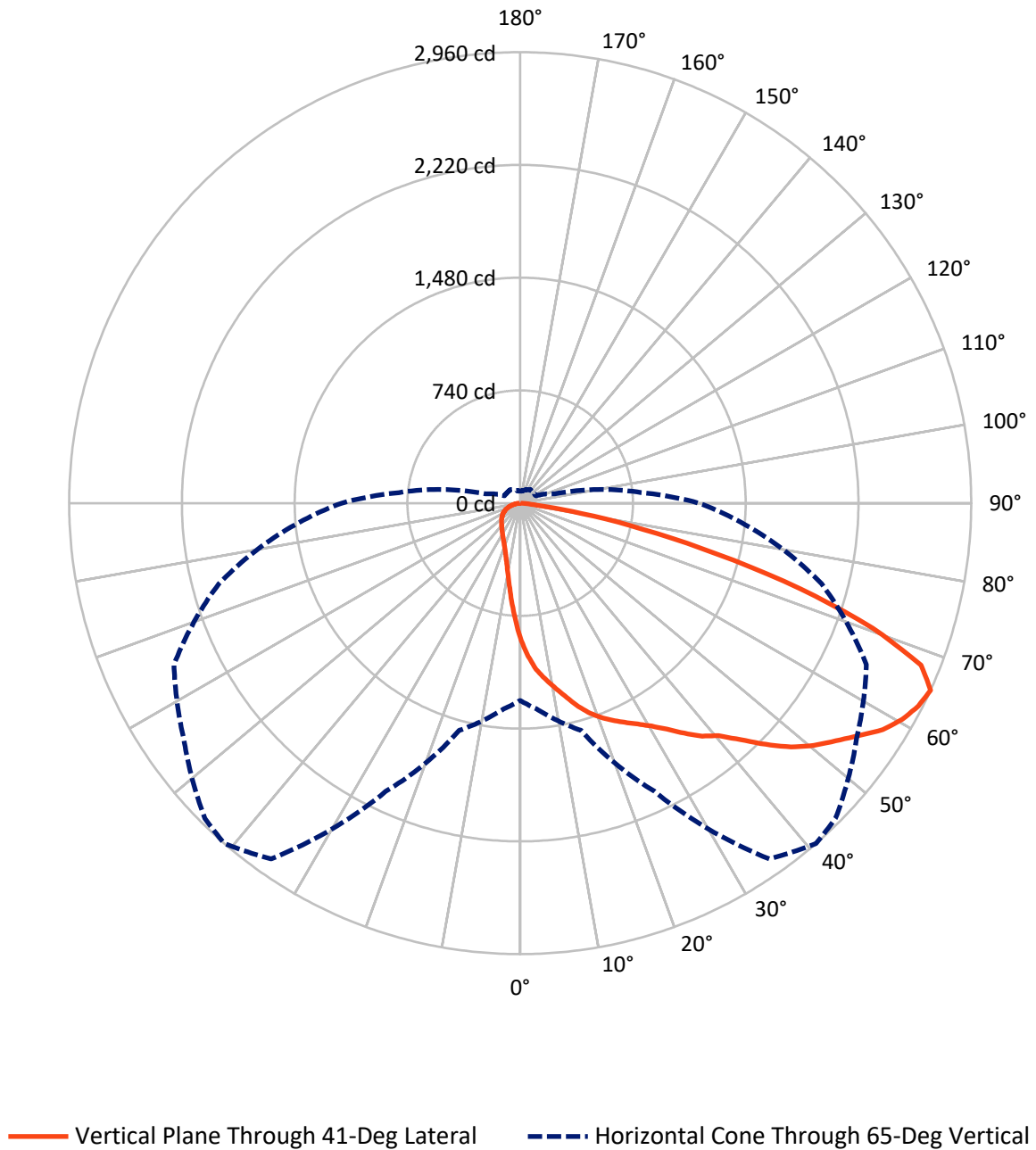
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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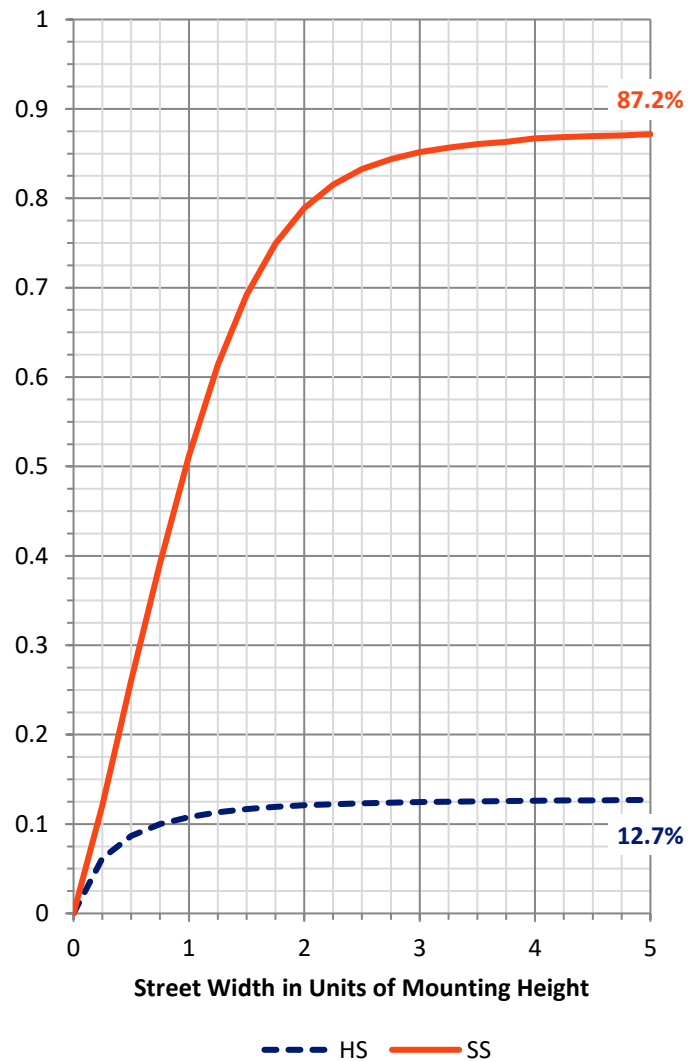
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	679.9	0.0	679.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	4616.1	0.0	4616.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	5296.0	0.0	5296.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.1	1.6
10°-20°	252.1	4.8
20°-30°	433.7	8.2
30°-40°	657.8	12.4
40°-50°	963.8	18.2
50°-60°	1217.0	23.0
60°-70°	1141.2	21.5
70°-80°	508.6	9.6
80°-90°	37.7	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°	5296.0	100.0
0°-180°	5296.0	100.0

Coefficient of Utilization



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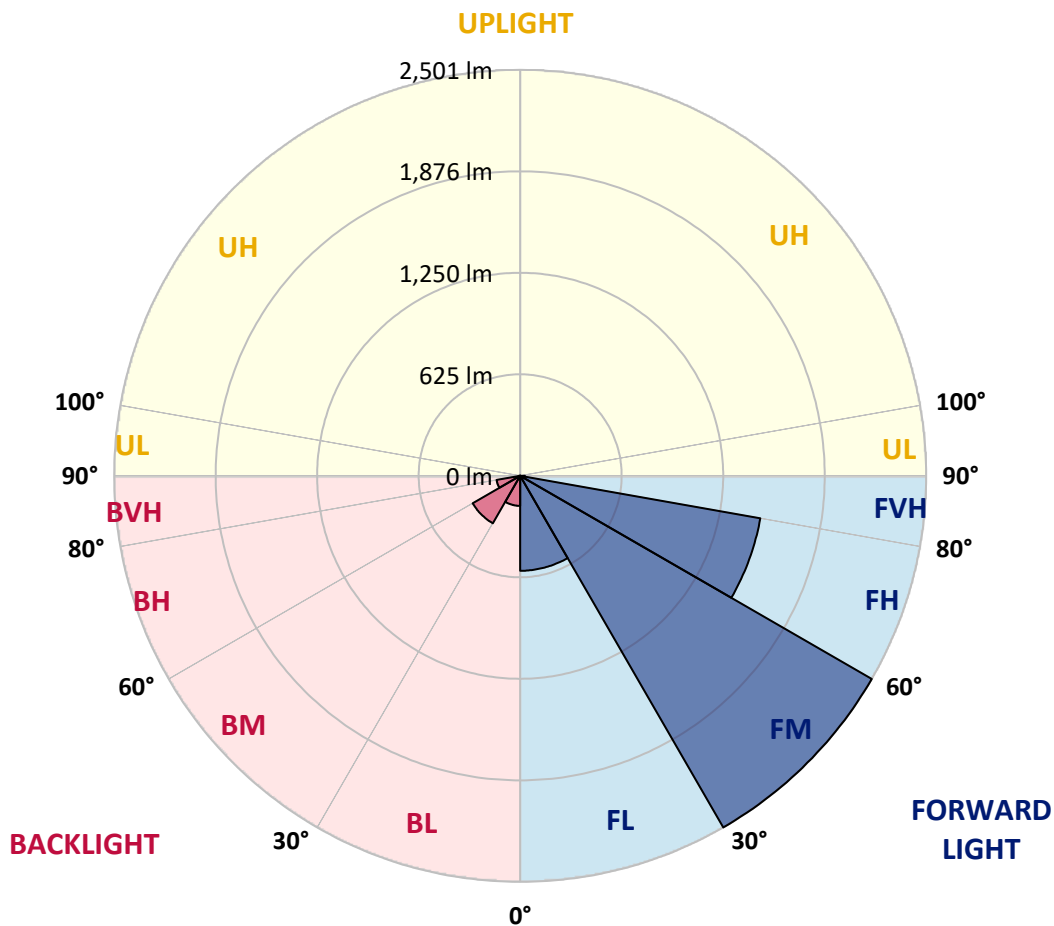
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	584.9	11.0			
FM	(30°-60°)	2501.0	47.2			
FH	(60°-80°)	1502.1	28.4			G1/1800
FVH	(80°-90°)	28.1	0.5			G1/100
BL	(0°-30°)	185.1	3.5	B1/500		
BM	(30°-60°)	337.6	6.4	B1/1000		
BH	(60°-80°)	147.7	2.8	B1/500		G1/500
BVH	(80°-90°)	9.5	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4
2.5°	1040.9	1037.5	1035.3	1023.0	1023.0	1006.3	1007.4	991.8	972.8	942.6	910.2
5°	1139.2	1134.7	1129.1	1116.8	1112.4	1095.6	1093.4	1071.1	1038.7	986.2	928.1
7.5°	1225.2	1220.7	1212.9	1195.0	1182.7	1162.6	1157.1	1128.0	1092.3	1027.5	946.0
10°	1303.4	1300.0	1290.0	1267.6	1250.9	1226.3	1216.2	1177.2	1132.5	1061.0	960.5
12.5°	1382.7	1378.2	1364.8	1345.8	1325.7	1296.7	1284.4	1234.1	1177.2	1097.9	981.7
15°	1456.4	1449.7	1439.6	1419.5	1401.6	1373.7	1360.3	1301.1	1231.9	1139.2	1009.6
17.5°	1504.4	1498.8	1489.9	1478.7	1464.2	1443.0	1429.6	1371.5	1286.6	1179.4	1038.7
20°	1533.4	1531.2	1527.8	1521.1	1514.4	1499.9	1489.9	1435.1	1345.8	1218.5	1066.6
22.5°	1555.8	1553.5	1552.4	1552.4	1553.5	1547.9	1541.2	1494.3	1402.8	1259.8	1092.3
25°	1590.4	1589.3	1587.0	1584.8	1592.6	1593.7	1591.5	1559.1	1474.2	1314.5	1124.7
27.5°	1638.4	1635.1	1630.6	1628.4	1636.2	1641.8	1646.2	1623.9	1550.2	1370.4	1161.5
30°	1712.1	1702.1	1690.9	1683.1	1688.7	1697.6	1707.7	1694.3	1628.4	1439.6	1199.5
32.5°	1799.2	1787.0	1761.3	1746.7	1761.3	1768.0	1775.8	1769.1	1709.9	1514.4	1237.5
35°	1905.3	1890.8	1864.0	1842.8	1868.5	1854.0	1850.6	1843.9	1787.0	1588.2	1279.9
37.5°	2081.8	2060.6	2018.1	1971.2	1971.2	1940.0	1927.7	1907.6	1856.2	1654.0	1321.2
40°	2286.2	2258.3	2203.5	2134.3	2070.6	2005.9	1998.0	1983.5	1937.7	1730.0	1368.1
42.5°	2510.7	2457.1	2381.1	2297.4	2194.6	2120.9	2103.0	2061.7	2017.0	1807.1	1415.0
45°	2759.7	2648.0	2537.5	2495.0	2325.3	2258.3	2224.8	2149.9	2099.7	1887.5	1464.2
47.5°	2799.9	2712.8	2639.1	2632.4	2447.0	2391.2	2353.2	2246.0	2189.0	1973.5	1515.6
50°	2777.6	2725.1	2732.9	2706.1	2536.4	2499.5	2470.5	2348.7	2277.2	2056.1	1562.5
52.5°	2683.8	2712.8	2757.5	2708.3	2621.2	2591.1	2576.6	2459.3	2359.9	2132.1	1604.9
55°	2572.1	2592.2	2688.2	2748.6	2719.5	2692.7	2679.3	2587.7	2441.4	2195.7	1644.0
57.5°	2409.0	2400.1	2506.2	2741.9	2822.3	2806.6	2792.1	2713.9	2517.4	2241.5	1668.6
60°	2164.4	2145.5	2279.5	2607.8	2855.8	2880.3	2873.6	2797.7	2575.4	2240.4	1658.5
62.5°	1741.2	1788.1	1973.5	2388.9	2870.3	2932.8	2920.5	2804.4	2594.4	2175.6	1594.9
65°	1294.4	1361.4	1543.5	2087.4	2850.2	2959.6	2926.1	2694.9	2506.2	2047.2	1455.2
67.5°	932.6	991.8	1124.7	1717.7	2657.0	2836.8	2797.7	2516.3	2302.9	1865.1	1262.0
70°	637.7	680.2	770.6	1250.9	2268.3	2452.6	2428.0	2249.3	1982.4	1648.5	1025.3
72.5°	450.1	468.0	526.0	825.3	1723.3	1924.3	1895.3	1850.6	1592.6	1370.4	797.4
75°	337.3	348.5	379.7	533.9	1162.6	1333.5	1306.7	1332.4	1189.4	1037.5	580.8
77.5°	127.3	138.5	215.6	340.6	688.0	818.6	791.8	807.5	661.2	523.8	289.3
80°	34.6	36.9	71.5	161.9	312.7	407.6	370.8	318.3	245.7	241.2	153.0
82.5°	14.5	16.8	32.4	87.1	111.7	111.7	93.8	116.2	93.8	112.8	73.7
85°	5.6	6.7	7.8	22.3	14.5	15.6	16.8	22.3	19.0	23.5	16.8
87.5°	0.0	0.0	0.0	1.1	1.1	2.2	1.1	2.2	3.4	3.4	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°	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4	902.4
2.5°	896.8	884.5	866.7	837.6	807.5	790.7	769.5	766.2	743.8	741.6	732.7
5°	902.4	876.7	830.9	775.1	720.4	677.9	646.7	629.9	597.5	597.5	588.6
7.5°	906.9	866.7	793.0	710.3	635.5	578.5	536.1	518.2	489.2	486.9	480.2
10°	908.0	854.4	751.6	644.4	552.8	494.8	453.4	433.3	407.6	405.4	400.9
12.5°	916.9	847.7	714.8	587.5	493.6	431.1	390.9	374.1	354.0	351.8	347.3
15°	931.4	847.7	683.5	539.4	441.2	383.1	348.5	332.8	318.3	316.1	313.8
17.5°	946.0	845.5	652.2	494.8	397.6	345.1	315.0	302.7	291.5	290.4	288.1
20°	959.4	844.3	621.0	456.8	364.1	313.8	290.4	279.2	270.3	270.3	269.2
22.5°	972.8	842.1	590.8	421.1	335.1	290.4	270.3	258.0	251.3	251.3	250.2
25°	992.9	842.1	562.9	390.9	311.6	272.5	252.4	243.5	237.9	236.8	236.8
27.5°	1016.3	848.8	538.3	364.1	291.5	254.6	239.0	230.1	223.4	221.1	222.3
30°	1042.0	854.4	516.0	340.6	272.5	241.2	224.5	215.6	208.9	206.6	207.7
32.5°	1067.7	861.1	495.9	319.4	253.5	229.0	212.2	202.1	195.4	194.3	194.3
35°	1095.6	867.8	475.8	301.5	237.9	216.7	201.0	189.9	185.4	183.2	184.3
37.5°	1123.5	879.0	456.8	284.8	226.7	205.5	191.0	179.8	176.5	175.3	175.3
40°	1157.1	895.7	449.0	273.6	216.7	195.4	183.2	172.0	168.6	168.6	168.6
42.5°	1185.0	909.1	442.3	261.3	208.9	186.5	175.3	166.4	164.2	163.1	164.2
45°	1212.9	921.4	433.3	250.2	198.8	177.6	168.6	159.7	157.5	157.5	157.5
47.5°	1240.8	928.1	421.1	239.0	189.9	169.8	161.9	154.1	151.9	151.9	151.9
50°	1263.2	933.7	403.2	226.7	179.8	163.1	155.2	147.4	145.2	145.2	145.2
52.5°	1285.5	934.8	384.2	212.2	169.8	155.2	148.5	140.7	138.5	137.4	137.4
55°	1305.6	933.7	361.9	195.4	158.6	146.3	140.7	134.0	129.6	125.1	127.3
57.5°	1320.1	932.6	336.2	178.7	147.4	137.4	135.1	126.2	117.3	106.1	108.3
60°	1314.5	920.3	308.2	157.5	135.1	128.4	128.4	116.2	100.5	94.9	96.0
62.5°	1278.8	885.7	279.2	135.1	122.9	119.5	118.4	105.0	92.7	87.1	88.2
65°	1171.6	798.5	236.8	115.0	110.6	109.5	109.5	97.2	86.0	79.3	80.4
67.5°	1008.5	670.1	193.2	97.2	98.3	100.5	100.5	89.3	78.2	71.5	72.6
70°	808.6	523.8	154.1	83.8	84.9	88.2	90.5	80.4	70.4	63.7	63.7
72.5°	608.7	397.6	124.0	70.4	75.9	75.9	79.3	71.5	61.4	54.7	55.8
75°	441.2	284.8	98.3	59.2	65.9	64.8	64.8	60.3	52.5	48.0	48.0
77.5°	208.9	149.7	78.2	42.4	51.4	50.3	51.4	48.0	44.7	40.2	41.3
80°	102.7	73.7	50.3	30.2	35.7	36.9	40.2	38.0	36.9	33.5	33.5
82.5°	49.1	29.0	23.5	21.2	24.6	25.7	27.9	27.9	29.0	26.8	26.8
85°	13.4	7.8	10.1	13.4	15.6	16.8	19.0	20.1	20.1	19.0	20.1
87.5°	3.4	3.4	4.5	6.7	7.8	8.9	10.1	10.1	4.5	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)