

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: P799992

Luminaire Tested: **ARCH2-70-722-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799992
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-70-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6032 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 73.6
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

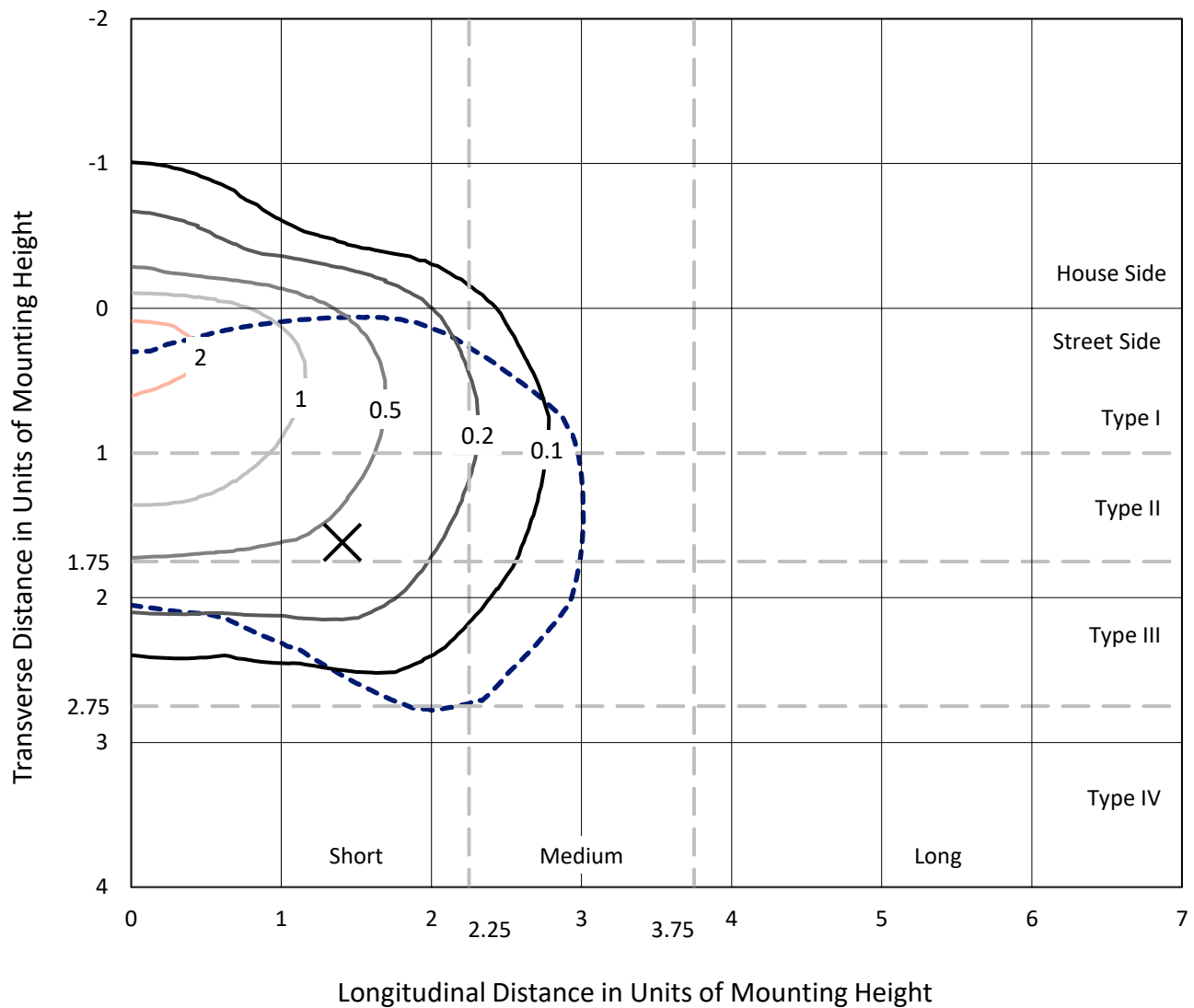


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Iso-Footcandle Lines of Horizontal Illumination

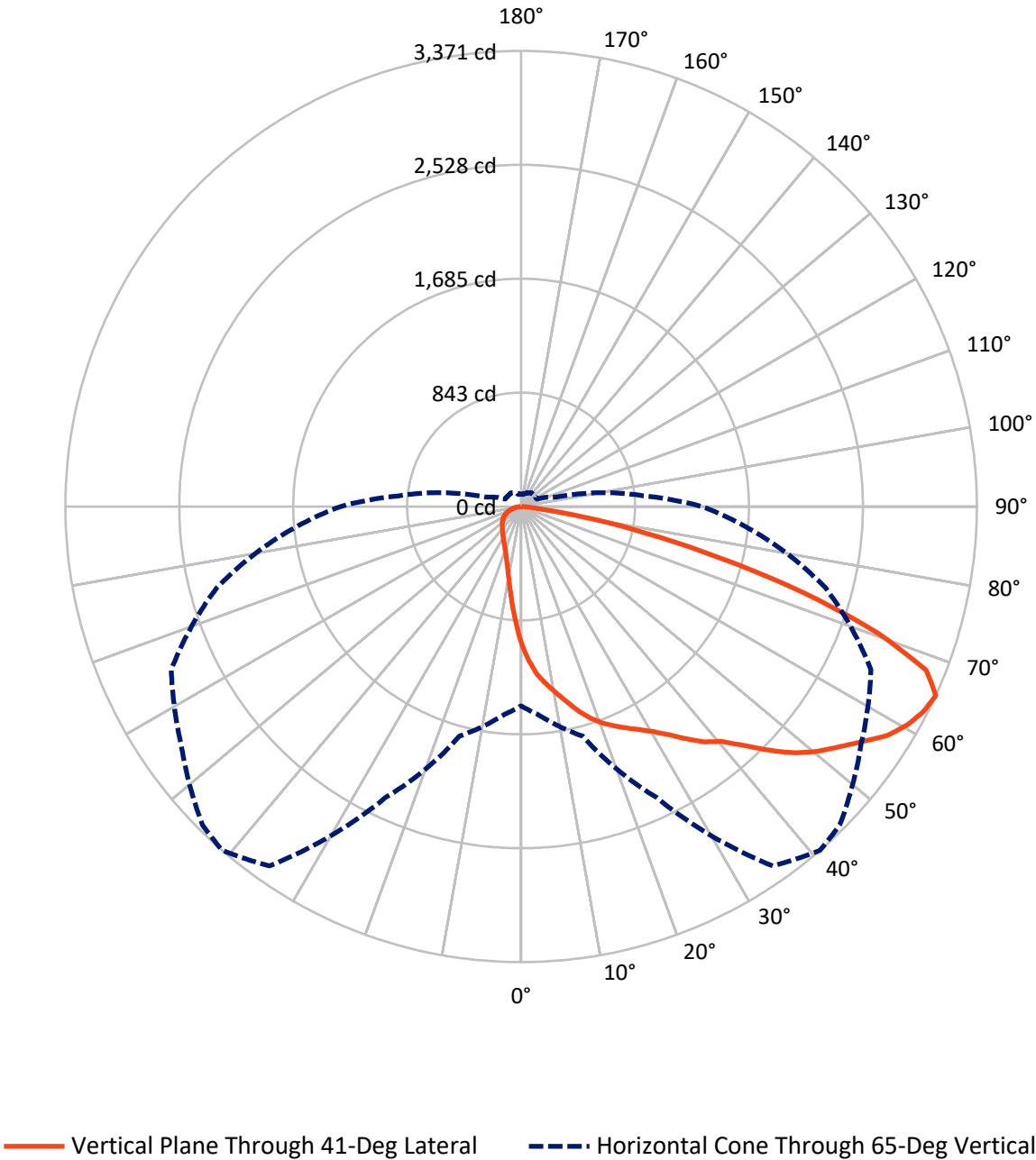
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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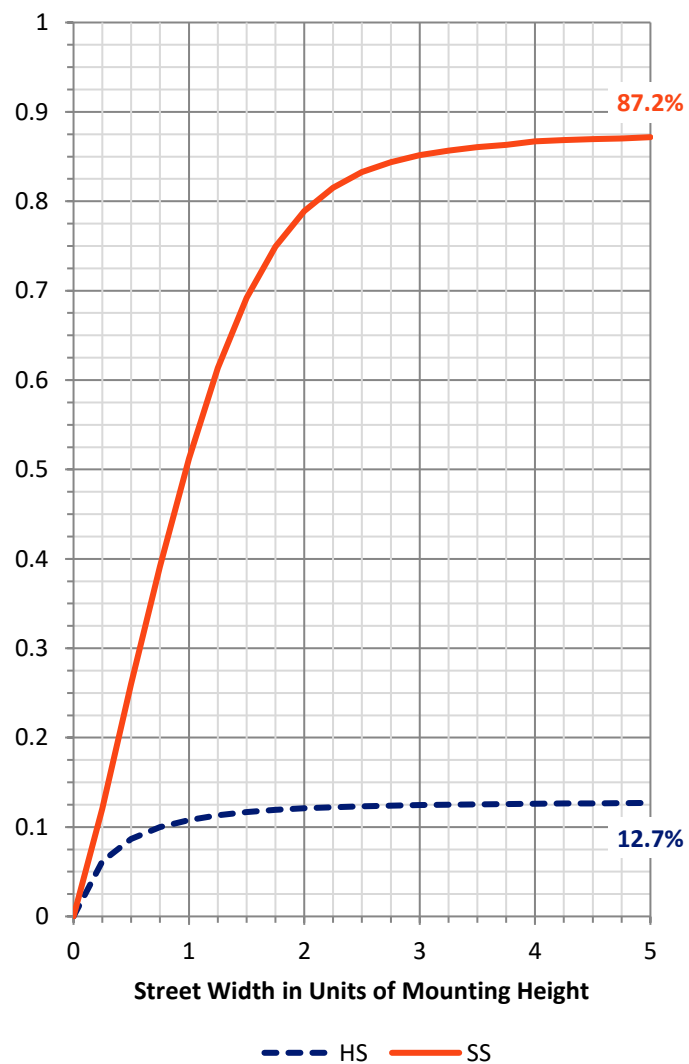
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	774.4	0.0	774.4
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	5257.6	0.0	5257.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	6032.0	0.0	6032.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.8	1.6
10°-20°	287.2	4.8
20°-30°	494.0	8.2
30°-40°	749.3	12.4
40°-50°	1097.7	18.2
50°-60°	1386.1	23.0
60°-70°	1299.8	21.5
70°-80°	579.3	9.6
80°-90°	42.9	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°	6032.0	100.0
0°-180°	6032.0	100.0

Coefficient of Utilization



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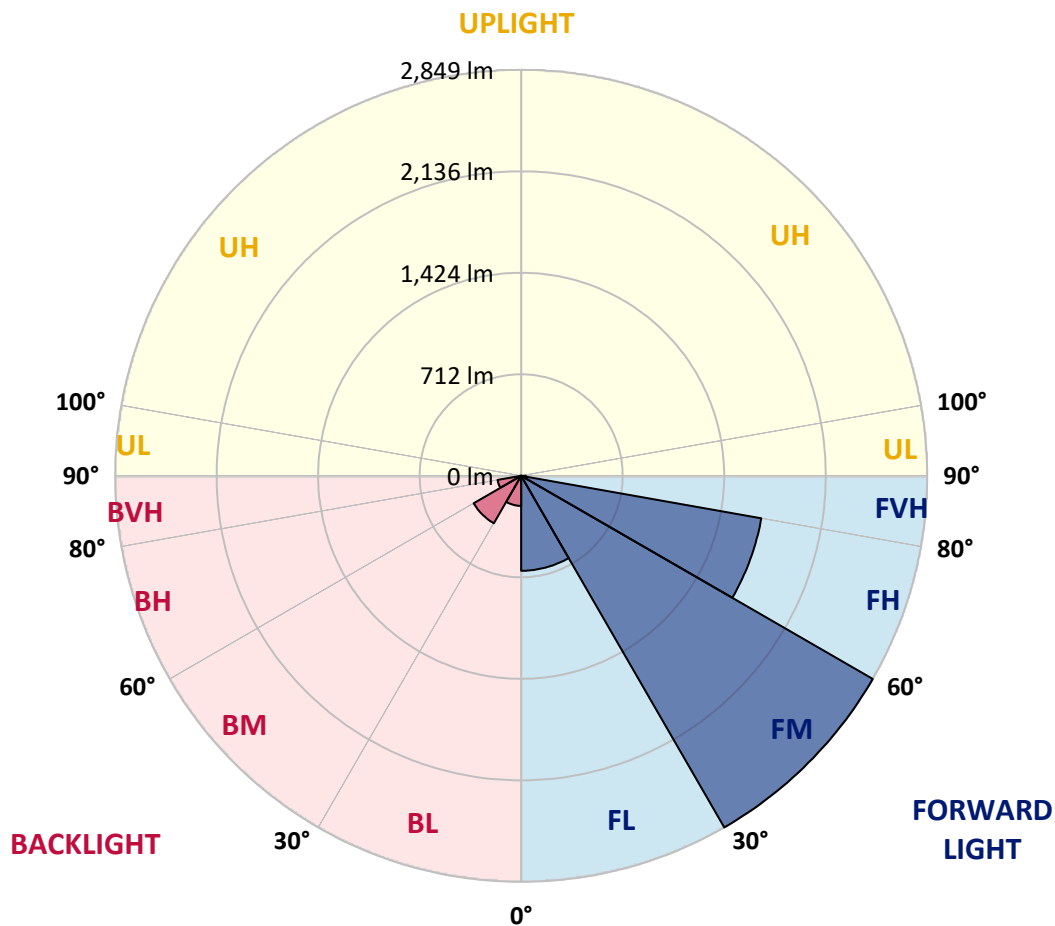
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	666.2	11.0			
FM	(30°-60°)	2848.5	47.2			
FH	(60°-80°)	1710.8	28.4			G1/1800
FVH	(80°-90°)	32.0	0.5			G1/100
BL	(0°-30°)	210.8	3.5	B1/500		
BM	(30°-60°)	384.5	6.4	B1/1000		
BH	(60°-80°)	168.2	2.8	B1/500		G1/500
BVH	(80°-90°)	10.9	0.2			G1/100
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°	1027.8	1027.8	1027.8	1027.8	1027.8	1027.8	1027.8	1027.8	1027.8	1027.8	1027.8
2.5°	1185.6	1181.7	1179.2	1165.2	1165.2	1146.1	1147.4	1129.6	1108.0	1073.6	1036.7
5°	1297.5	1292.4	1286.0	1272.1	1267.0	1247.9	1245.3	1219.9	1183.0	1123.2	1057.1
7.5°	1395.4	1390.4	1381.5	1361.1	1347.1	1324.2	1317.9	1284.8	1244.1	1170.3	1077.4
10°	1484.5	1480.7	1469.2	1443.8	1424.7	1396.7	1385.3	1340.7	1289.9	1208.5	1094.0
12.5°	1574.8	1569.7	1554.5	1532.8	1509.9	1476.9	1462.9	1405.6	1340.7	1250.4	1118.1
15°	1658.8	1651.1	1639.7	1616.8	1596.4	1564.6	1549.4	1481.9	1403.1	1297.5	1149.9
17.5°	1713.5	1707.1	1696.9	1684.2	1667.7	1643.5	1628.2	1562.1	1465.4	1343.3	1183.0
20°	1746.5	1744.0	1740.2	1732.5	1724.9	1708.4	1696.9	1634.6	1532.8	1387.8	1214.8
22.5°	1772.0	1769.4	1768.2	1768.2	1769.4	1763.1	1755.4	1702.0	1597.7	1434.9	1244.1
25°	1811.4	1810.1	1807.6	1805.0	1814.0	1815.2	1812.7	1775.8	1679.1	1497.2	1281.0
27.5°	1866.1	1862.3	1857.2	1854.7	1863.6	1869.9	1875.0	1849.6	1765.6	1560.8	1322.9
30°	1950.1	1938.6	1925.9	1917.0	1923.3	1933.5	1945.0	1929.7	1854.7	1639.7	1366.2
32.5°	2049.3	2035.3	2006.0	1989.5	2006.0	2013.7	2022.6	2014.9	1947.5	1724.9	1409.4
35°	2170.1	2153.6	2123.1	2098.9	2128.1	2111.6	2107.8	2100.2	2035.3	1808.9	1457.8
37.5°	2371.1	2346.9	2298.6	2245.2	2245.2	2209.6	2195.6	2172.7	2114.2	1883.9	1504.8
40°	2603.9	2572.1	2509.8	2430.9	2358.4	2284.6	2275.7	2259.2	2207.0	1970.4	1558.3
42.5°	2859.6	2798.5	2712.0	2616.6	2499.6	2415.6	2395.3	2348.2	2297.3	2058.2	1611.7
45°	3143.3	3016.0	2890.1	2841.8	2648.4	2572.1	2533.9	2448.7	2391.5	2149.8	1667.7
47.5°	3189.0	3089.8	3005.9	2998.2	2787.1	2723.5	2680.2	2558.1	2493.2	2247.7	1726.2
50°	3163.6	3103.8	3112.7	3082.2	2888.8	2846.9	2813.8	2675.1	2593.7	2341.9	1779.6
52.5°	3056.8	3089.8	3140.7	3084.7	2985.5	2951.2	2934.6	2801.1	2687.9	2428.4	1827.9
55°	2929.5	2952.4	3061.8	3130.5	3097.5	3066.9	3051.7	2947.4	2780.7	2500.9	1872.5
57.5°	2743.8	2733.6	2854.5	3122.9	3214.5	3196.7	3180.1	3091.1	2867.2	2553.0	1900.5
60°	2465.2	2443.6	2596.3	2970.3	3252.6	3280.6	3273.0	3186.5	2933.4	2551.7	1889.0
62.5°	1983.1	2036.6	2247.7	2720.9	3269.2	3340.4	3326.4	3194.1	2955.0	2478.0	1816.5
65°	1474.3	1550.6	1758.0	2377.5	3246.3	3370.9	3332.8	3069.5	2854.5	2331.7	1657.5
67.5°	1062.2	1129.6	1281.0	1956.4	3026.2	3231.0	3186.5	2865.9	2623.0	2124.3	1437.4
70°	726.3	774.7	877.7	1424.7	2583.5	2793.4	2765.4	2561.9	2257.9	1877.6	1167.7
72.5°	512.6	533.0	599.1	940.0	1962.8	2191.8	2158.7	2107.8	1814.0	1560.8	908.2
75°	384.2	396.9	432.5	608.0	1324.2	1518.8	1488.3	1517.6	1354.7	1181.7	661.5
77.5°	145.0	157.7	245.5	388.0	783.6	932.4	901.9	919.7	753.1	596.6	329.5
80°	39.4	42.0	81.4	184.4	356.2	464.3	422.3	362.5	279.9	274.8	174.3
82.5°	16.5	19.1	36.9	99.2	127.2	127.2	106.9	132.3	106.9	128.5	84.0
85°	6.4	7.6	8.9	25.4	16.5	17.8	19.1	25.4	21.6	26.7	19.1
87.5°	0.0	0.0	0.0	1.3	1.3	2.5	1.3	2.5	3.8	3.8	3.8
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°	1027.8	1027.8	1027.8	1027.8	1027.8	1027.8	1027.8	1027.8	1027.8	1027.8	1027.8
2.5°	1021.5	1007.5	987.1	954.0	919.7	900.6	876.4	872.6	847.2	844.6	834.5
5°	1027.8	998.6	946.4	882.8	820.5	772.1	736.5	717.4	680.5	680.5	670.4
7.5°	1032.9	987.1	903.2	809.0	723.8	658.9	610.6	590.2	557.2	554.6	547.0
10°	1034.2	973.1	856.1	734.0	629.7	563.5	516.5	493.6	464.3	461.8	456.7
12.5°	1044.4	965.5	814.1	669.1	562.2	491.0	445.2	426.1	403.2	400.7	395.6
15°	1060.9	965.5	778.5	614.4	502.5	436.3	396.9	379.1	362.5	360.0	357.4
17.5°	1077.4	962.9	742.9	563.5	452.9	393.1	358.7	344.7	332.0	330.7	328.2
20°	1092.7	961.7	707.3	520.3	414.7	357.4	330.7	318.0	307.8	307.8	306.6
22.5°	1108.0	959.1	672.9	479.6	381.6	330.7	307.8	293.8	286.2	286.2	284.9
25°	1130.9	959.1	641.1	445.2	354.9	310.4	287.5	277.3	270.9	269.7	269.7
27.5°	1157.6	966.8	613.1	414.7	332.0	290.0	272.2	262.0	254.4	251.9	253.1
30°	1186.8	973.1	587.7	388.0	310.4	274.8	255.7	245.5	237.9	235.3	236.6
32.5°	1216.1	980.8	564.8	363.8	288.8	260.8	241.7	230.2	222.6	221.3	221.3
35°	1247.9	988.4	541.9	343.5	270.9	246.8	229.0	216.2	211.2	208.6	209.9
37.5°	1279.7	1001.1	520.3	324.4	258.2	234.1	217.5	204.8	201.0	199.7	199.7
40°	1317.9	1020.2	511.4	311.7	246.8	222.6	208.6	195.9	192.1	192.1	192.1
42.5°	1349.7	1035.5	503.7	297.7	237.9	212.4	199.7	189.5	187.0	185.7	187.0
45°	1381.5	1049.4	493.6	284.9	226.4	202.3	192.1	181.9	179.4	179.4	179.4
47.5°	1413.3	1057.1	479.6	272.2	216.2	193.4	184.4	175.5	173.0	173.0	173.0
50°	1438.7	1063.4	459.2	258.2	204.8	185.7	176.8	167.9	165.4	165.4	165.4
52.5°	1464.1	1064.7	437.6	241.7	193.4	176.8	169.2	160.3	157.7	156.5	156.5
55°	1487.0	1063.4	412.1	222.6	180.6	166.6	160.3	152.6	147.6	142.5	145.0
57.5°	1503.6	1062.2	382.9	203.5	167.9	156.5	153.9	143.7	133.6	120.8	123.4
60°	1497.2	1048.2	351.1	179.4	153.9	146.3	146.3	132.3	114.5	108.1	109.4
62.5°	1456.5	1008.7	318.0	153.9	139.9	136.1	134.8	119.6	105.6	99.2	100.5
65°	1334.4	909.5	269.7	131.0	125.9	124.7	124.7	110.7	97.9	90.3	91.6
67.5°	1148.7	763.2	220.1	110.7	111.9	114.5	114.5	101.8	89.0	81.4	82.7
70°	921.0	596.6	175.5	95.4	96.7	100.5	103.0	91.6	80.1	72.5	72.5
72.5°	693.3	452.9	141.2	80.1	86.5	86.5	90.3	81.4	70.0	62.3	63.6
75°	502.5	324.4	111.9	67.4	75.1	73.8	73.8	68.7	59.8	54.7	54.7
77.5°	237.9	170.5	89.0	48.3	58.5	57.2	58.5	54.7	50.9	45.8	47.1
80°	117.0	84.0	57.2	34.3	40.7	42.0	45.8	43.2	42.0	38.2	38.2
82.5°	56.0	33.1	26.7	24.2	28.0	29.3	31.8	31.8	33.1	30.5	30.5
85°	15.3	8.9	11.4	15.3	17.8	19.1	21.6	22.9	22.9	21.6	22.9
87.5°	3.8	3.8	5.1	7.6	8.9	10.2	11.4	11.4	5.1	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)