

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: P799112

Luminaire Tested: **ARCH1-60-727-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799112
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: ARCH1-60-727-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4724 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 60
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

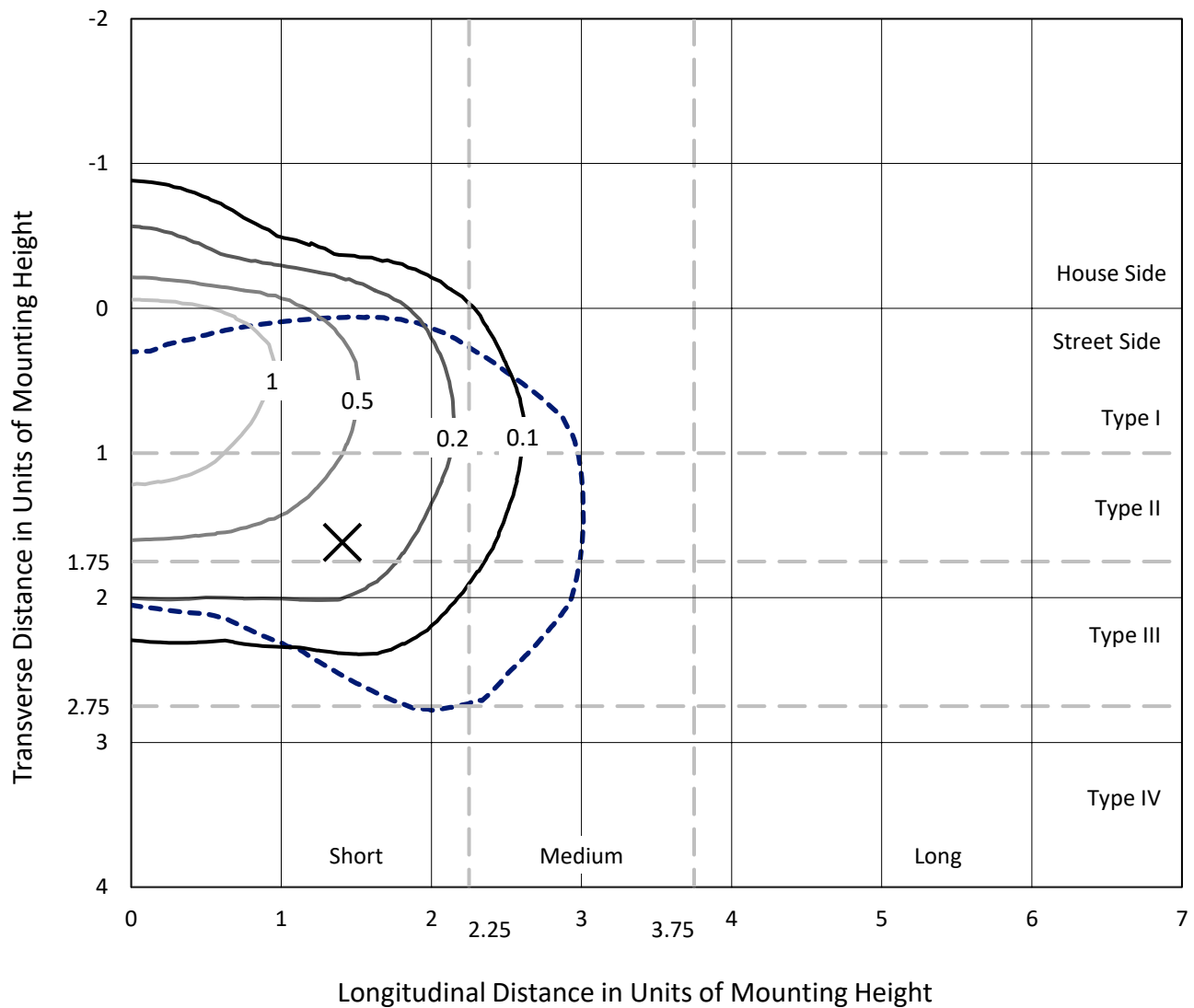


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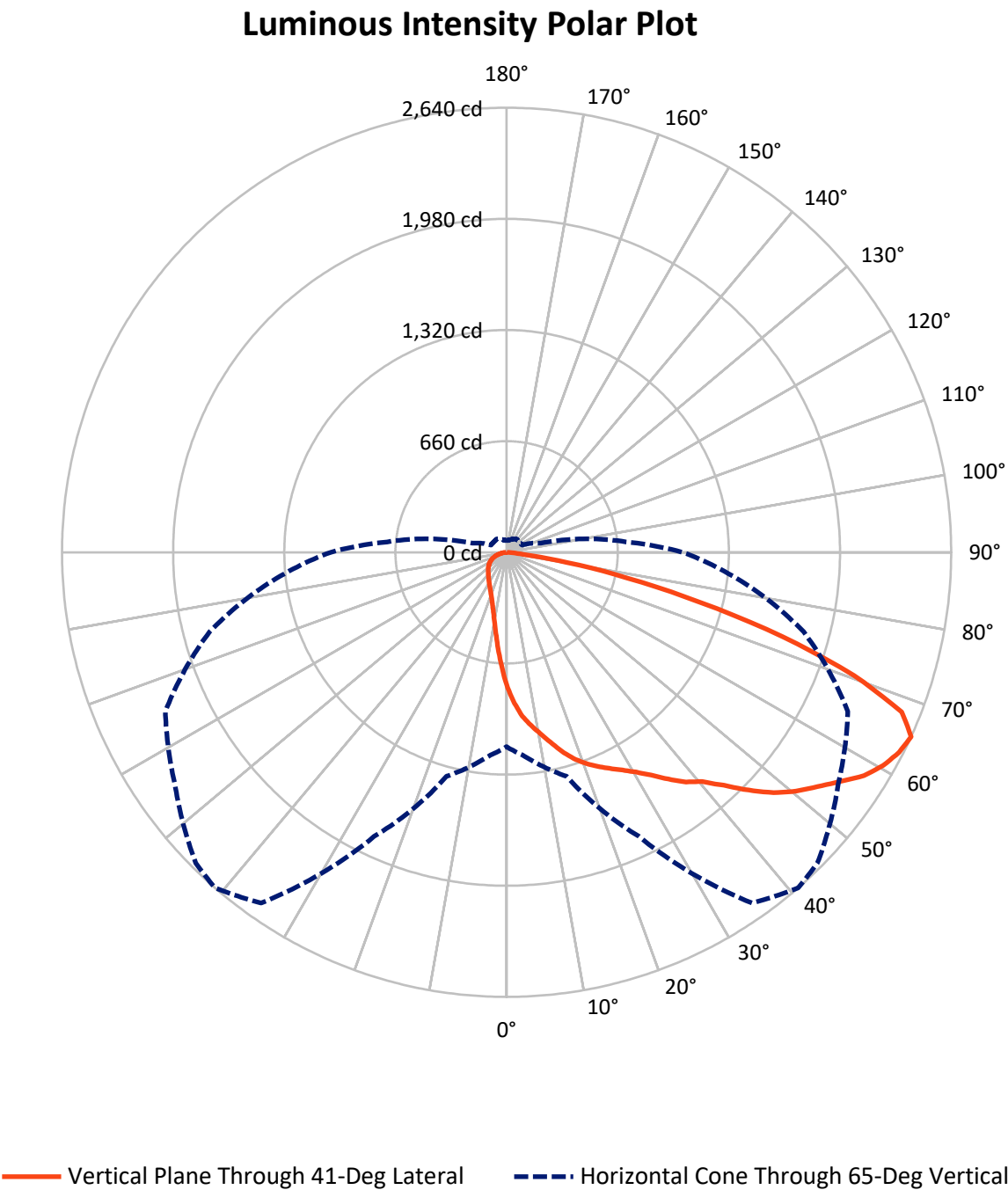
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type III - Short - N/A

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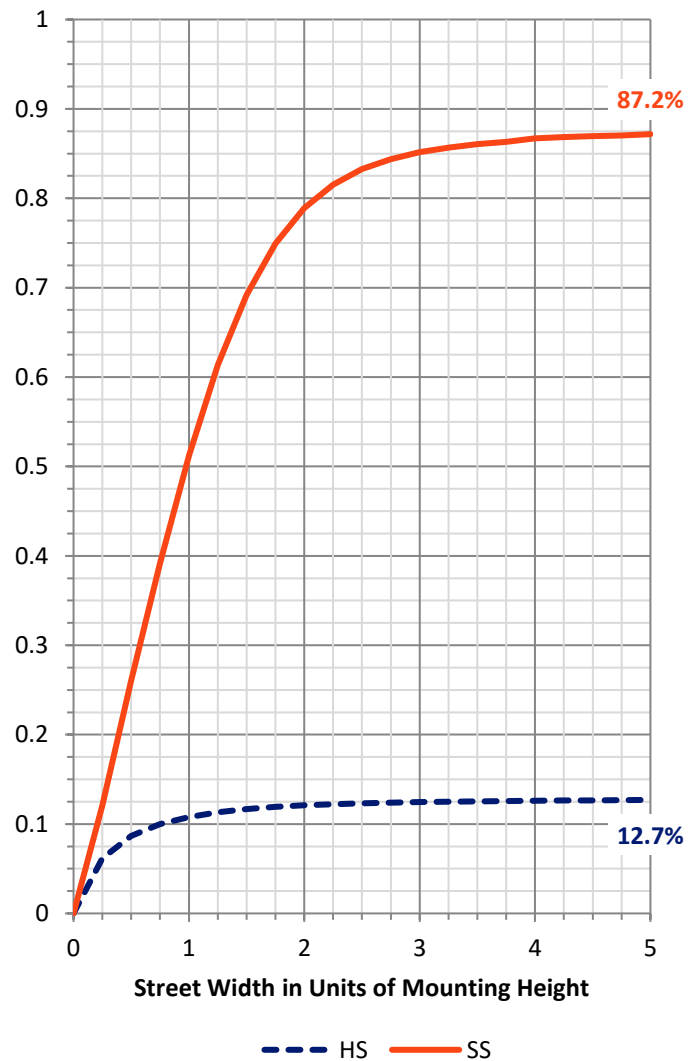
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	606.5	0.0	606.5
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	4117.5	0.0	4117.5
	% Fixture	87.2	0.0	87.2
Total	Lumens	4724.0	0.0	4724.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.0	1.6
10°-20°	224.9	4.8
20°-30°	386.9	8.2
30°-40°	586.8	12.4
40°-50°	859.7	18.2
50°-60°	1085.6	23.0
60°-70°	1017.9	21.5
70°-80°	453.7	9.6
80°-90°	33.6	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°	4724.0	100.0
0°-180°	4724.0	100.0

Coefficient of Utilization



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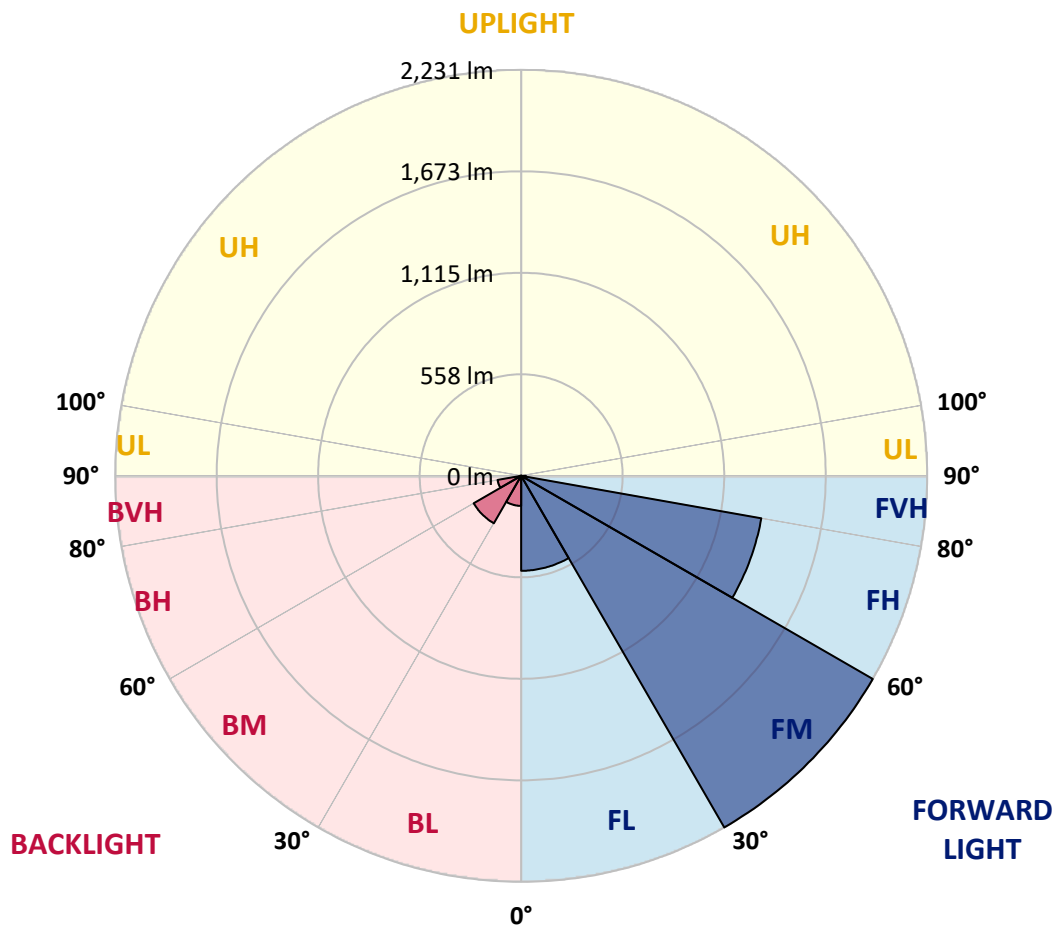
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	521.7	11.0			
FM	(30°-60°)	2230.9	47.2			
FH	(60°-80°)	1339.8	28.4			G1/1800
FVH	(80°-90°)	25.1	0.5			G1/100
BL	(0°-30°)	165.1	3.5	B1/500		
BM	(30°-60°)	301.2	6.4	B1/1000		
BH	(60°-80°)	131.7	2.8	B1/500		G1/500
BVH	(80°-90°)	8.5	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°	804.9	804.9	804.9	804.9	804.9	804.9	804.9	804.9	804.9	804.9	804.9
2.5°	928.5	925.5	923.5	912.5	912.5	897.6	898.6	884.6	867.7	840.8	811.9
5°	1016.1	1012.2	1007.2	996.2	992.2	977.3	975.3	955.4	926.5	879.7	827.9
7.5°	1092.9	1088.9	1081.9	1066.0	1055.0	1037.1	1032.1	1006.2	974.3	916.5	843.8
10°	1162.6	1159.6	1150.6	1130.7	1115.8	1093.8	1084.9	1050.0	1010.2	946.4	856.7
12.5°	1233.3	1229.3	1217.4	1200.4	1182.5	1156.6	1145.7	1100.8	1050.0	979.3	875.7
15°	1299.1	1293.1	1284.1	1266.2	1250.3	1225.3	1213.4	1160.6	1098.8	1016.1	900.6
17.5°	1341.9	1336.9	1329.0	1319.0	1306.0	1287.1	1275.2	1223.4	1147.6	1052.0	926.5
20°	1367.8	1365.8	1362.8	1356.9	1350.9	1337.9	1329.0	1280.1	1200.4	1086.9	951.4
22.5°	1387.7	1385.7	1384.7	1384.7	1385.7	1380.8	1374.8	1332.9	1251.3	1123.7	974.3
25°	1418.6	1417.6	1415.6	1413.6	1420.6	1421.6	1419.6	1390.7	1315.0	1172.5	1003.2
27.5°	1461.5	1458.5	1454.5	1452.5	1459.5	1464.4	1468.4	1448.5	1382.8	1222.4	1036.1
30°	1527.2	1518.2	1508.3	1501.3	1506.3	1514.3	1523.2	1511.3	1452.5	1284.1	1069.9
32.5°	1604.9	1594.0	1571.0	1558.1	1571.0	1577.0	1584.0	1578.0	1525.2	1350.9	1103.8
35°	1699.5	1686.6	1662.7	1643.8	1666.7	1653.7	1650.7	1644.8	1594.0	1416.6	1141.7
37.5°	1857.0	1838.0	1800.2	1758.3	1758.3	1730.4	1719.5	1701.5	1655.7	1475.4	1178.5
40°	2039.3	2014.4	1965.5	1903.8	1847.0	1789.2	1782.2	1769.3	1728.4	1543.1	1220.4
42.5°	2239.5	2191.7	2123.9	2049.2	1957.6	1891.8	1875.9	1839.0	1799.2	1611.9	1262.2
45°	2461.7	2362.0	2263.4	2225.6	2074.1	2014.4	1984.5	1917.7	1872.9	1683.6	1306.0
47.5°	2497.5	2419.8	2354.1	2348.1	2182.7	2132.9	2099.0	2003.4	1952.6	1760.3	1351.9
50°	2477.6	2430.8	2437.7	2413.8	2262.4	2229.5	2203.6	2095.0	2031.3	1834.0	1393.7
52.5°	2393.9	2419.8	2459.7	2415.8	2338.1	2311.2	2298.3	2193.7	2105.0	1901.8	1431.6
55°	2294.3	2312.2	2397.9	2451.7	2425.8	2401.9	2389.9	2308.2	2177.7	1958.6	1466.4
57.5°	2148.8	2140.9	2235.5	2445.7	2517.4	2503.5	2490.5	2420.8	2245.5	1999.4	1488.4
60°	1930.7	1913.7	2033.3	2326.2	2547.3	2569.2	2563.3	2495.5	2297.3	1998.4	1479.4
62.5°	1553.1	1594.9	1760.3	2130.9	2560.3	2616.1	2605.1	2501.5	2314.2	1940.6	1422.6
65°	1154.6	1214.4	1376.8	1861.9	2542.4	2640.0	2610.1	2403.9	2235.5	1826.1	1298.1
67.5°	831.8	884.6	1003.2	1532.2	2370.0	2530.4	2495.5	2244.5	2054.2	1663.7	1125.7
70°	568.8	606.7	687.4	1115.8	2023.3	2187.7	2165.8	2006.4	1768.3	1470.4	914.5
72.5°	401.5	417.4	469.2	736.2	1537.2	1716.5	1690.6	1650.7	1420.6	1222.4	711.3
75°	300.9	310.8	338.7	476.2	1037.1	1189.5	1165.6	1188.5	1061.0	925.5	518.0
77.5°	113.6	123.5	192.3	303.8	613.7	730.2	706.3	720.3	589.8	467.2	258.0
80°	30.9	32.9	63.8	144.5	278.9	363.6	330.7	283.9	219.2	215.2	136.5
82.5°	13.0	14.9	28.9	77.7	99.6	99.6	83.7	103.6	83.7	100.6	65.8
85°	5.0	6.0	7.0	19.9	13.0	13.9	14.9	19.9	16.9	20.9	14.9
87.5°	0.0	0.0	0.0	1.0	1.0	2.0	1.0	2.0	3.0	3.0	3.0
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°	804.9	804.9	804.9	804.9	804.9	804.9	804.9	804.9	804.9	804.9	804.9
2.5°	800.0	789.0	773.1	747.2	720.3	705.3	686.4	683.4	663.5	661.5	653.5
5°	804.9	782.0	741.2	691.4	642.6	604.7	576.8	561.9	533.0	533.0	525.0
7.5°	808.9	773.1	707.3	633.6	566.8	516.0	478.2	462.2	436.3	434.4	428.4
10°	809.9	762.1	670.5	574.8	493.1	441.3	404.5	386.5	363.6	361.6	357.6
12.5°	817.9	756.1	637.6	524.0	440.3	384.5	348.7	333.7	315.8	313.8	309.8
15°	830.8	756.1	609.7	481.2	393.5	341.7	310.8	296.9	283.9	281.9	279.9
17.5°	843.8	754.1	581.8	441.3	354.7	307.8	280.9	270.0	260.0	259.0	257.0
20°	855.8	753.1	553.9	407.5	324.8	279.9	259.0	249.1	241.1	241.1	240.1
22.5°	867.7	751.1	527.0	375.6	298.9	259.0	241.1	230.1	224.1	224.1	223.2
25°	885.6	751.1	502.1	348.7	277.9	243.1	225.1	217.2	212.2	211.2	211.2
27.5°	906.6	757.1	480.2	324.8	260.0	227.1	213.2	205.2	199.2	197.3	198.2
30°	929.5	762.1	460.3	303.8	243.1	215.2	200.2	192.3	186.3	184.3	185.3
32.5°	952.4	768.1	442.3	284.9	226.1	204.2	189.3	180.3	174.3	173.3	173.3
35°	977.3	774.1	424.4	269.0	212.2	193.3	179.3	169.4	165.4	163.4	164.4
37.5°	1002.2	784.0	407.5	254.0	202.2	183.3	170.4	160.4	157.4	156.4	156.4
40°	1032.1	799.0	400.5	244.1	193.3	174.3	163.4	153.4	150.4	150.4	150.4
42.5°	1057.0	810.9	394.5	233.1	186.3	166.4	156.4	148.4	146.4	145.4	146.4
45°	1081.9	821.9	386.5	223.2	177.3	158.4	150.4	142.5	140.5	140.5	140.5
47.5°	1106.8	827.9	375.6	213.2	169.4	151.4	144.5	137.5	135.5	135.5	135.5
50°	1126.7	832.8	359.6	202.2	160.4	145.4	138.5	131.5	129.5	129.5	129.5
52.5°	1146.6	833.8	342.7	189.3	151.4	138.5	132.5	125.5	123.5	122.5	122.5
55°	1164.6	832.8	322.8	174.3	141.5	130.5	125.5	119.5	115.6	111.6	113.6
57.5°	1177.5	831.8	299.9	159.4	131.5	122.5	120.5	112.6	104.6	94.6	96.6
60°	1172.5	820.9	275.0	140.5	120.5	114.6	114.6	103.6	89.7	84.7	85.7
62.5°	1140.7	790.0	249.1	120.5	109.6	106.6	105.6	93.6	82.7	77.7	78.7
65°	1045.0	712.3	211.2	102.6	98.6	97.6	97.6	86.7	76.7	70.7	71.7
67.5°	899.6	597.7	172.3	86.7	87.7	89.7	89.7	79.7	69.7	63.8	64.8
70°	721.3	467.2	137.5	74.7	75.7	78.7	80.7	71.7	62.8	56.8	56.8
72.5°	542.9	354.7	110.6	62.8	67.7	67.7	70.7	63.8	54.8	48.8	49.8
75°	393.5	254.0	87.7	52.8	58.8	57.8	57.8	53.8	46.8	42.8	42.8
77.5°	186.3	133.5	69.7	37.9	45.8	44.8	45.8	42.8	39.8	35.9	36.9
80°	91.7	65.8	44.8	26.9	31.9	32.9	35.9	33.9	32.9	29.9	29.9
82.5°	43.8	25.9	20.9	18.9	21.9	22.9	24.9	24.9	25.9	23.9	23.9
85°	12.0	7.0	9.0	12.0	13.9	14.9	16.9	17.9	17.9	16.9	17.9
87.5°	3.0	3.0	4.0	6.0	7.0	8.0	9.0	9.0	4.0	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)