

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: P798996

Luminaire Tested: **ARCH1-50-730-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798996
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: ARCH1-50-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1470mA LIGHTSQUARE WITH 10 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4370 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 53
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

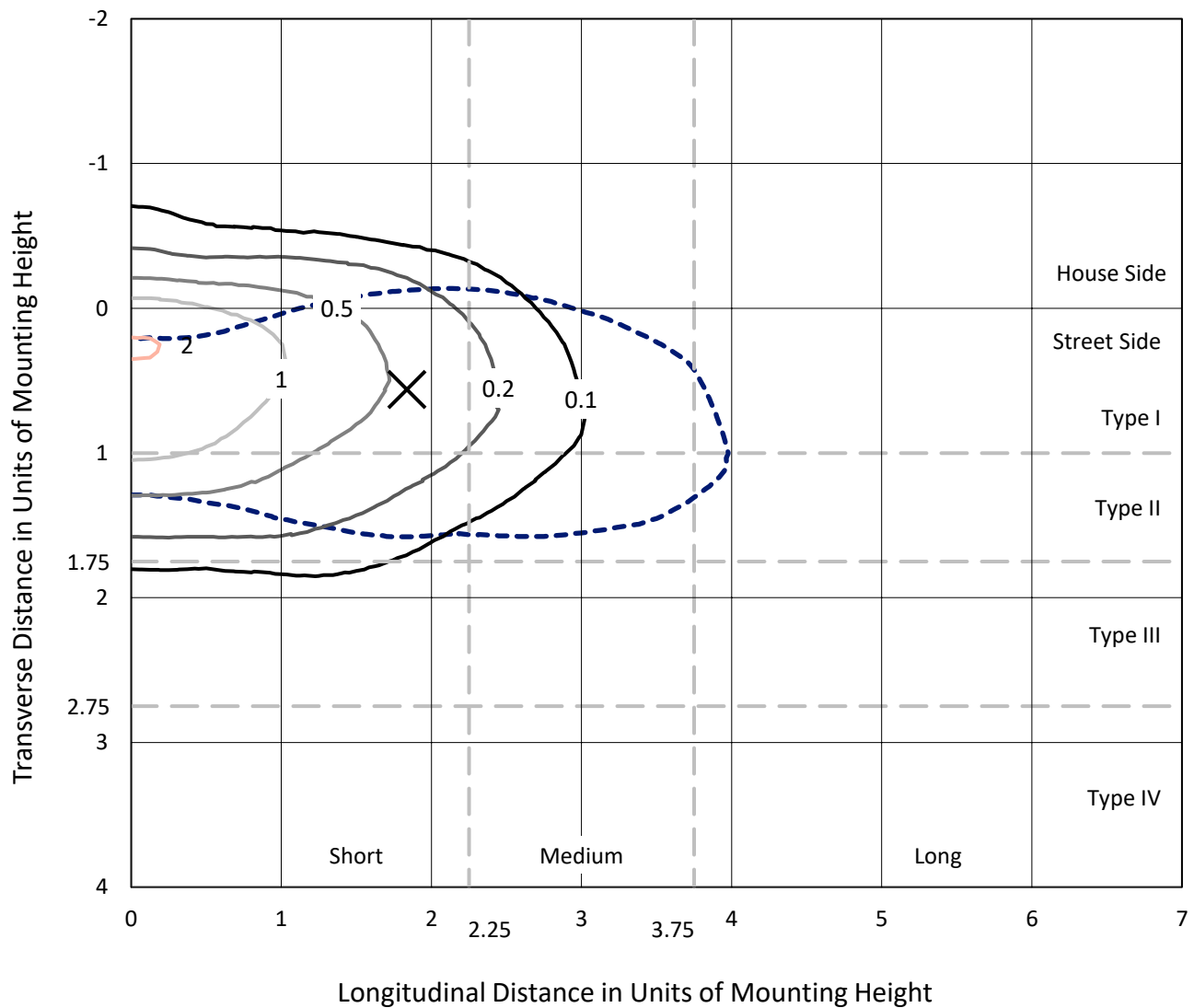


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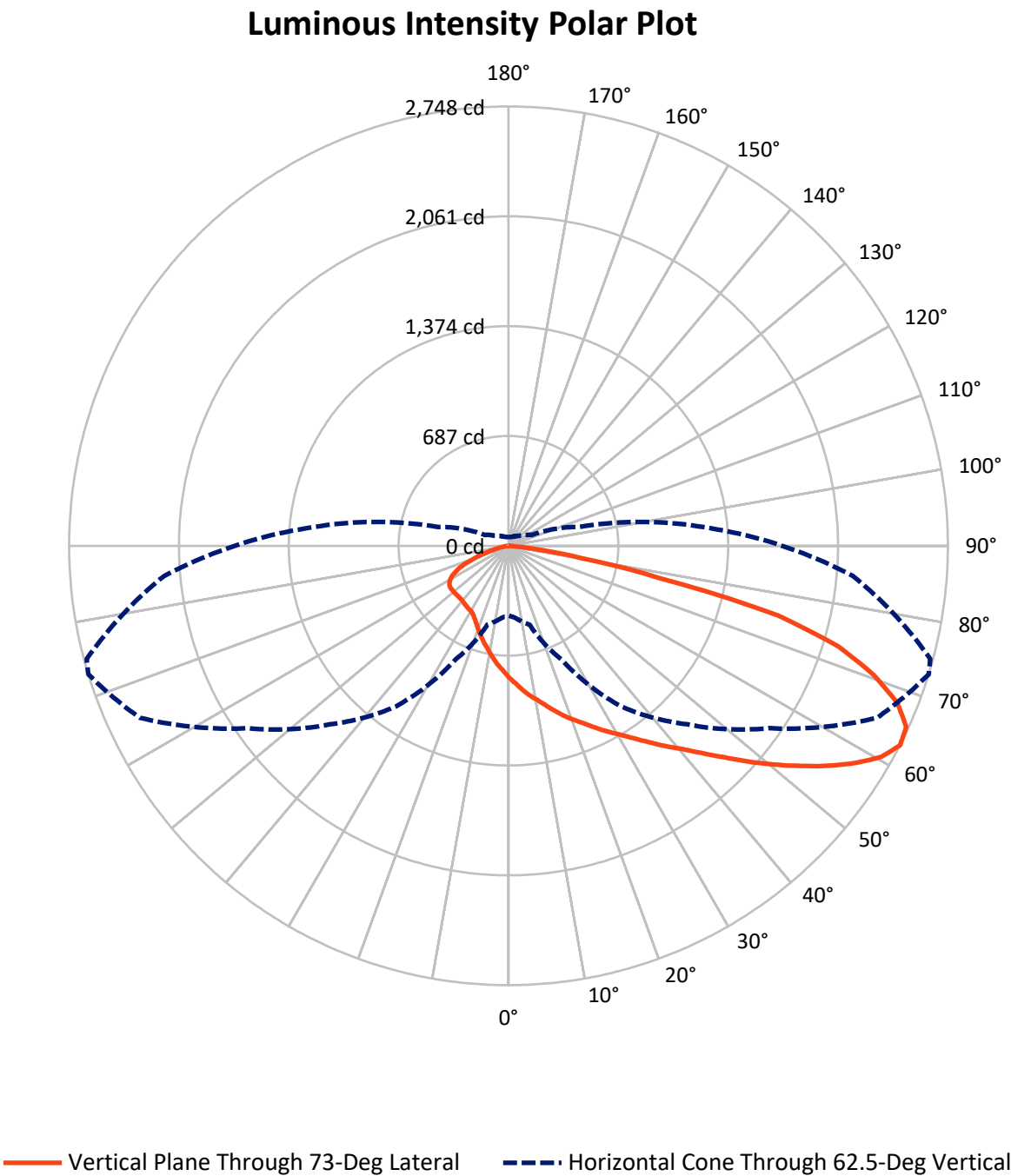
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



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

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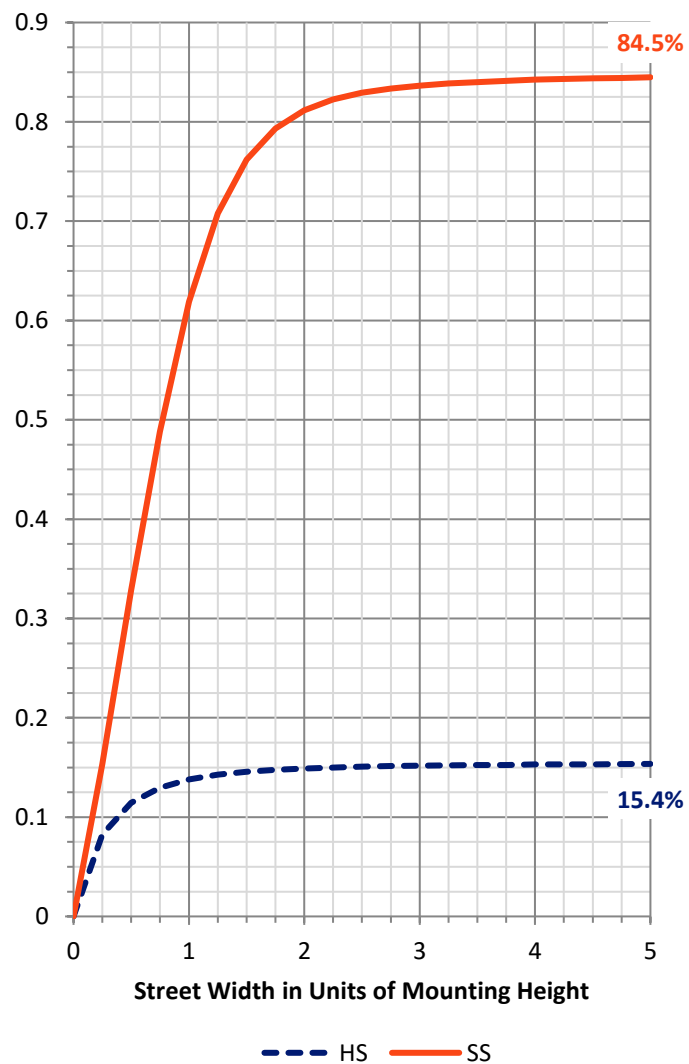
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	677.4	0.0	677.4
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	3692.6	0.0	3692.6
	% Fixture	84.5	0.0	84.5
Total	Lumens	4370.0	0.0	4370.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.9	1.8
10°-20°	241.2	5.5
20°-30°	401.5	9.2
30°-40°	605.8	13.9
40°-50°	846.8	19.4
50°-60°	935.3	21.4
60°-70°	814.8	18.6
70°-80°	411.6	9.4
80°-90°	33.0	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°	4370.0	100.0
0°-180°	4370.0	100.0

Coefficient of Utilization



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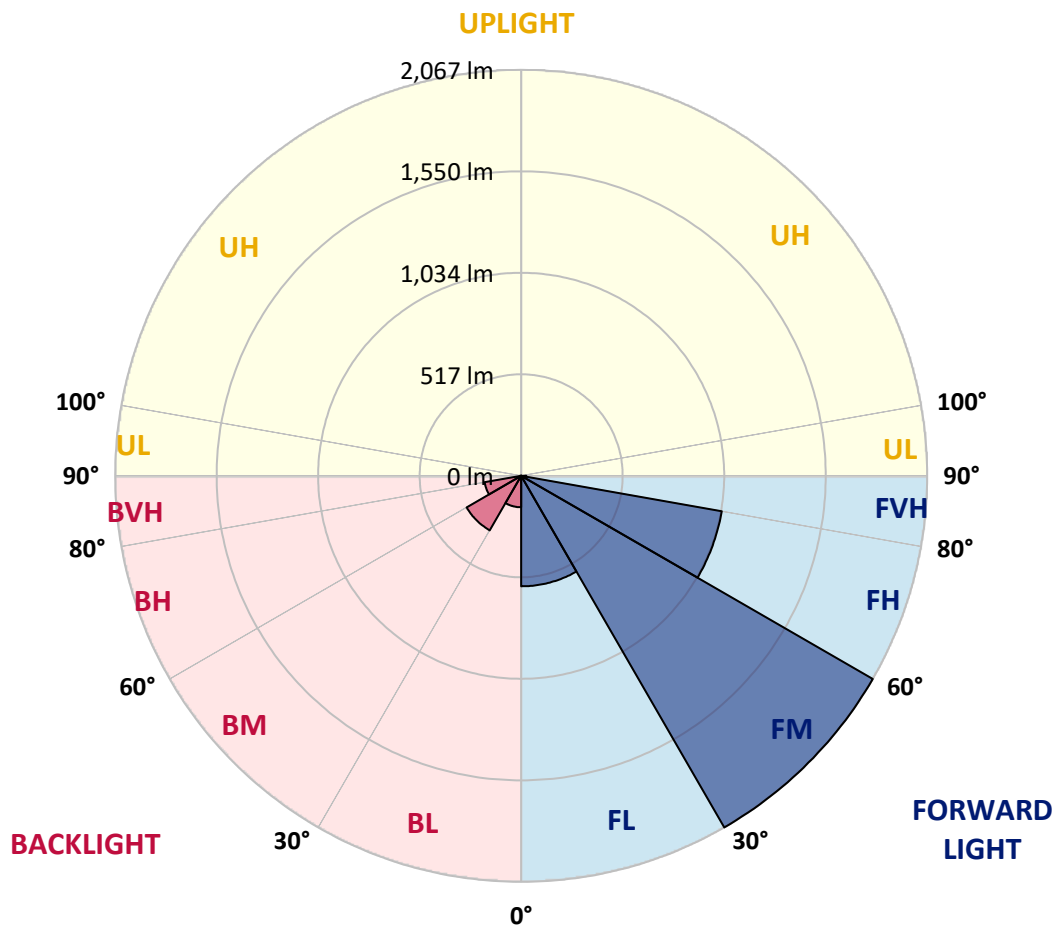
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	562.6	12.9			
FM	(30°-60°)	2067.2	47.3			
FH	(60°-80°)	1037.3	23.7			G1/1800
FVH	(80°-90°)	25.6	0.6			G1/100
BL	(0°-30°)	160.1	3.7	B1/500		
BM	(30°-60°)	320.8	7.3	B1/1000		
BH	(60°-80°)	189.1	4.3	B1/500		G1/500
BVH	(80°-90°)	7.5	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	827.5	827.5	827.5	827.5	827.5	827.5	827.5	827.5	827.5	827.5	827.5
2.5°	941.7	952.2	946.5	950.3	931.3	918.9	904.6	877.0	861.7	859.8	841.8
5°	1079.8	1091.2	1081.7	1078.9	1045.5	1017.0	984.6	936.0	903.6	897.9	857.9
7.5°	1217.9	1228.3	1216.9	1208.4	1163.6	1113.1	1065.5	994.1	943.6	934.1	871.3
10°	1315.0	1324.5	1316.0	1307.4	1260.7	1209.3	1141.7	1048.4	979.8	964.6	879.8
12.5°	1388.3	1394.0	1390.2	1382.6	1338.8	1283.6	1218.8	1109.3	1020.8	1001.7	893.2
15°	1448.3	1457.8	1453.1	1447.4	1405.5	1350.2	1288.3	1173.1	1068.4	1044.6	913.2
17.5°	1488.3	1495.0	1495.9	1495.9	1458.8	1404.5	1344.5	1231.2	1116.0	1085.5	932.2
20°	1506.4	1514.0	1518.8	1526.4	1495.9	1449.3	1388.3	1280.7	1160.7	1126.5	950.3
22.5°	1515.0	1521.6	1534.0	1551.1	1526.4	1487.3	1431.2	1326.4	1205.5	1169.3	971.3
25°	1521.6	1530.2	1548.3	1580.7	1563.5	1530.2	1481.6	1378.8	1258.8	1221.7	1001.7
27.5°	1539.7	1550.2	1567.3	1606.4	1585.4	1569.2	1535.0	1435.0	1315.0	1276.9	1038.9
30°	1602.6	1611.1	1610.2	1634.9	1609.2	1604.5	1580.7	1489.3	1369.3	1331.2	1082.7
32.5°	1716.8	1725.4	1704.5	1694.9	1638.7	1639.7	1630.2	1547.3	1434.0	1395.0	1133.1
35°	1839.7	1849.2	1821.6	1805.4	1711.1	1683.5	1688.3	1619.7	1506.4	1467.4	1196.0
37.5°	1949.2	1960.6	1936.8	1913.0	1817.8	1754.0	1753.0	1700.6	1589.2	1549.2	1265.5
40°	2009.2	2022.5	2036.8	2023.4	1923.5	1853.0	1822.5	1783.5	1671.1	1630.2	1340.7
42.5°	2037.7	2074.9	2100.6	2092.0	2010.1	1938.7	1902.5	1870.1	1771.1	1731.1	1430.2
45°	1957.7	1958.7	2013.0	2059.6	2044.4	1996.8	1990.1	1967.3	1885.4	1847.3	1531.2
47.5°	1857.8	1850.1	1888.2	1971.1	2013.9	2026.3	2065.3	2074.9	2015.8	1977.7	1634.0
50°	1617.8	1622.6	1746.3	1865.4	1949.2	2029.2	2118.7	2185.3	2150.1	2113.9	1742.5
52.5°	1316.0	1327.4	1469.3	1731.1	1863.5	2000.6	2150.1	2295.8	2287.2	2252.9	1851.1
55°	1055.0	1073.1	1223.6	1507.3	1754.0	1936.8	2163.4	2396.7	2429.1	2397.7	1957.7
57.5°	806.5	825.6	952.2	1243.6	1614.0	1833.0	2153.9	2485.3	2561.4	2541.4	2055.8
60°	607.5	626.6	707.5	1008.4	1438.8	1716.8	2106.3	2543.3	2680.5	2659.5	2127.2
62.5°	435.2	450.4	510.4	784.6	1225.5	1578.8	1989.2	2544.3	2748.1	2730.9	2161.5
65°	313.3	313.3	361.8	559.9	1025.5	1413.1	1812.1	2427.2	2733.8	2729.0	2137.7
67.5°	225.7	227.6	266.6	391.4	817.9	1212.2	1582.6	2218.6	2623.3	2647.1	2052.0
70°	160.0	164.7	182.8	273.3	618.0	957.0	1336.9	1945.4	2424.3	2466.2	1886.3
72.5°	123.8	126.6	139.0	190.4	451.3	711.3	1065.5	1640.7	2158.7	2206.3	1660.7
75°	95.2	98.1	107.6	140.0	323.8	499.0	757.0	1273.1	1740.6	1825.4	1334.0
77.5°	69.5	73.3	80.0	101.9	188.5	317.1	459.0	716.1	960.8	1000.8	698.9
80°	32.4	37.1	46.7	65.7	101.9	149.5	162.8	276.1	461.8	482.8	379.0
82.5°	18.1	22.9	26.7	40.0	51.4	53.3	55.2	69.5	174.3	192.3	159.0
85°	8.6	11.4	12.4	17.1	17.1	15.2	18.1	13.3	28.6	34.3	33.3
87.5°	0.0	1.0	1.9	4.8	3.8	2.9	2.9	2.9	2.9	3.8	2.9
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°	827.5	827.5	827.5	827.5	827.5	827.5	827.5	827.5	827.5	827.5	827.5
2.5°	833.2	820.8	792.2	767.5	751.3	737.0	718.0	709.4	694.2	697.0	688.4
5°	837.9	815.1	764.6	718.0	683.7	653.2	619.9	600.8	579.9	578.0	571.3
7.5°	840.8	805.6	733.2	667.5	615.1	568.5	523.7	499.0	473.2	467.5	461.8
10°	837.9	791.3	700.8	615.1	545.6	487.5	437.1	405.6	379.0	372.3	366.6
12.5°	840.8	783.7	670.4	566.6	483.7	418.0	360.9	328.5	303.8	297.1	293.3
15°	847.5	778.9	644.6	522.8	428.5	355.2	299.0	271.4	251.4	244.7	242.8
17.5°	853.2	774.1	617.0	479.9	373.3	299.9	251.4	228.5	211.4	204.7	202.8
20°	860.8	767.5	589.4	439.0	324.7	256.1	213.3	193.3	180.0	175.2	174.3
22.5°	867.5	762.7	563.7	398.0	279.9	220.9	184.7	168.5	159.0	154.3	154.3
25°	884.6	764.6	541.8	359.9	246.6	193.3	162.8	150.4	142.8	140.0	140.0
27.5°	904.6	772.2	524.7	327.6	218.1	172.3	147.6	137.1	133.3	129.5	130.5
30°	933.2	787.5	513.2	300.9	197.1	156.2	135.2	127.6	123.8	122.8	122.8
32.5°	969.3	812.2	512.3	283.8	181.9	143.8	126.6	120.0	118.1	117.1	117.1
35°	1012.2	834.1	506.6	276.1	172.3	135.2	120.0	115.2	114.3	114.3	114.3
37.5°	1063.6	870.3	502.8	265.7	167.6	130.5	115.2	111.4	111.4	111.4	111.4
40°	1116.9	899.8	497.1	256.1	165.7	127.6	112.4	107.6	107.6	107.6	107.6
42.5°	1180.7	942.7	495.1	251.4	162.8	125.7	108.6	102.8	103.8	103.8	104.7
45°	1257.9	991.2	494.2	246.6	161.9	123.8	104.7	98.1	99.0	98.1	98.1
47.5°	1335.9	1047.4	497.1	243.8	160.9	121.9	101.9	93.3	93.3	92.4	92.4
50°	1417.8	1098.8	499.0	240.9	159.0	118.1	97.1	89.5	87.6	85.7	86.7
52.5°	1495.0	1146.5	499.9	236.1	153.3	112.4	93.3	84.7	81.9	79.0	80.0
55°	1572.1	1192.2	501.8	230.4	145.7	106.6	88.6	80.0	76.2	72.4	72.4
57.5°	1641.6	1232.2	497.1	216.2	137.1	100.9	83.8	74.3	68.6	64.8	64.8
60°	1689.2	1260.7	482.8	195.2	125.7	94.3	79.0	68.6	61.9	59.0	59.0
62.5°	1712.1	1265.5	457.1	160.9	111.4	87.6	73.3	62.8	57.1	55.2	55.2
65°	1690.2	1244.5	417.1	120.9	96.2	80.0	67.6	58.1	52.4	47.6	47.6
67.5°	1614.0	1185.5	361.8	91.4	81.9	72.4	61.9	53.3	46.7	42.8	42.8
70°	1460.7	1062.7	279.9	73.3	69.5	62.8	56.2	47.6	41.9	37.1	37.1
72.5°	1259.8	900.8	197.1	59.0	59.0	53.3	47.6	41.9	36.2	32.4	32.4
75°	966.5	666.5	132.4	47.6	48.6	44.8	39.0	34.3	30.5	27.6	27.6
77.5°	527.5	329.5	80.9	35.2	36.2	34.3	30.5	27.6	25.7	22.9	22.9
80°	256.1	144.7	46.7	24.8	25.7	24.8	22.9	20.0	20.0	18.1	18.1
82.5°	107.6	54.3	24.8	17.1	17.1	15.2	14.3	14.3	14.3	13.3	13.3
85°	26.7	10.5	10.5	9.5	9.5	9.5	8.6	8.6	8.6	6.7	7.6
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	2.9	1.0	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)