

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: P798868

Luminaire Tested: **ARCH1-40-730-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798868
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: ARCH1-40-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1220mA 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: 3756 lumens
Efficiency: N/A
Efficacy: 87.3 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): 43
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

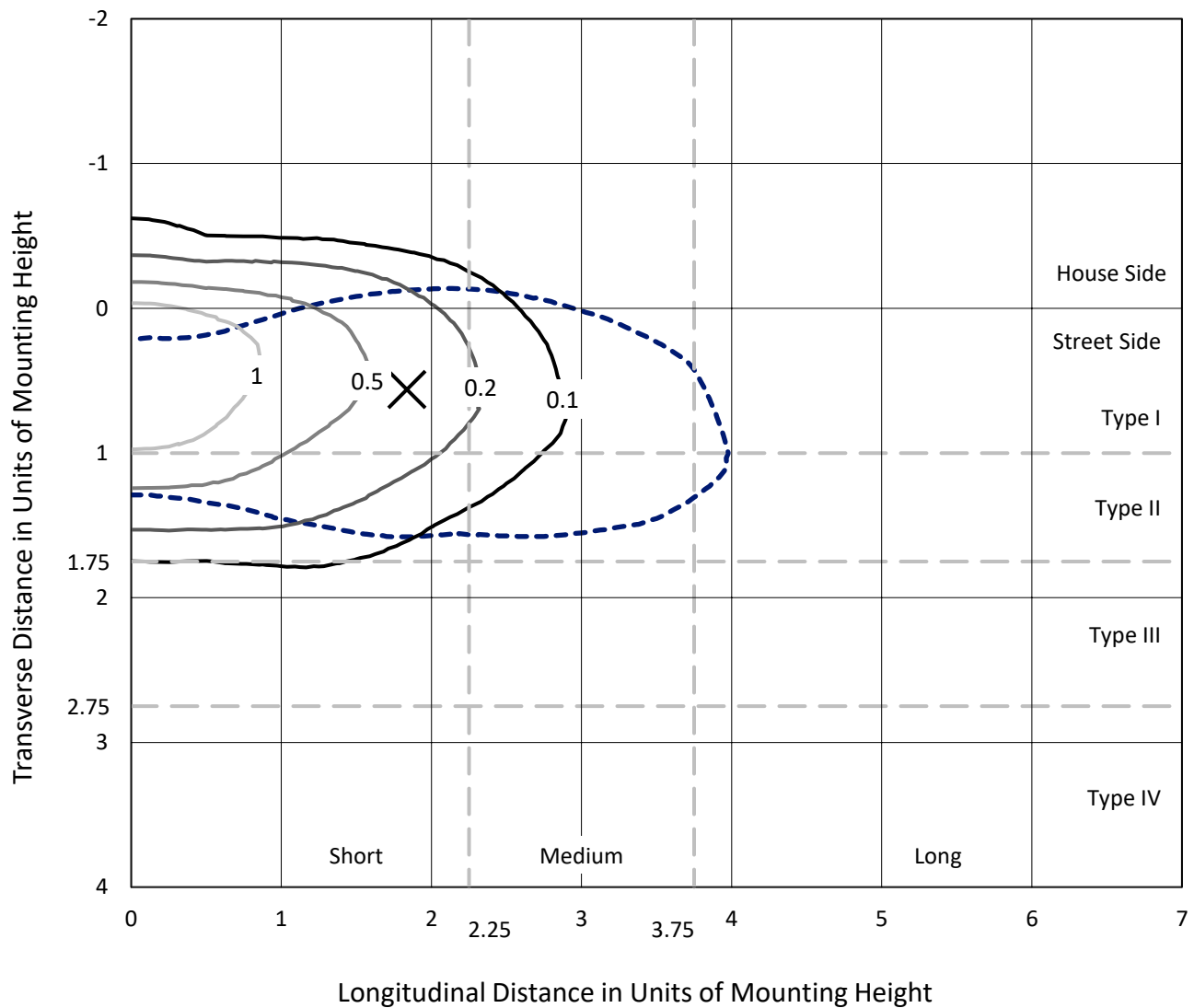


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Iso-Footcandle Lines of Horizontal Illumination

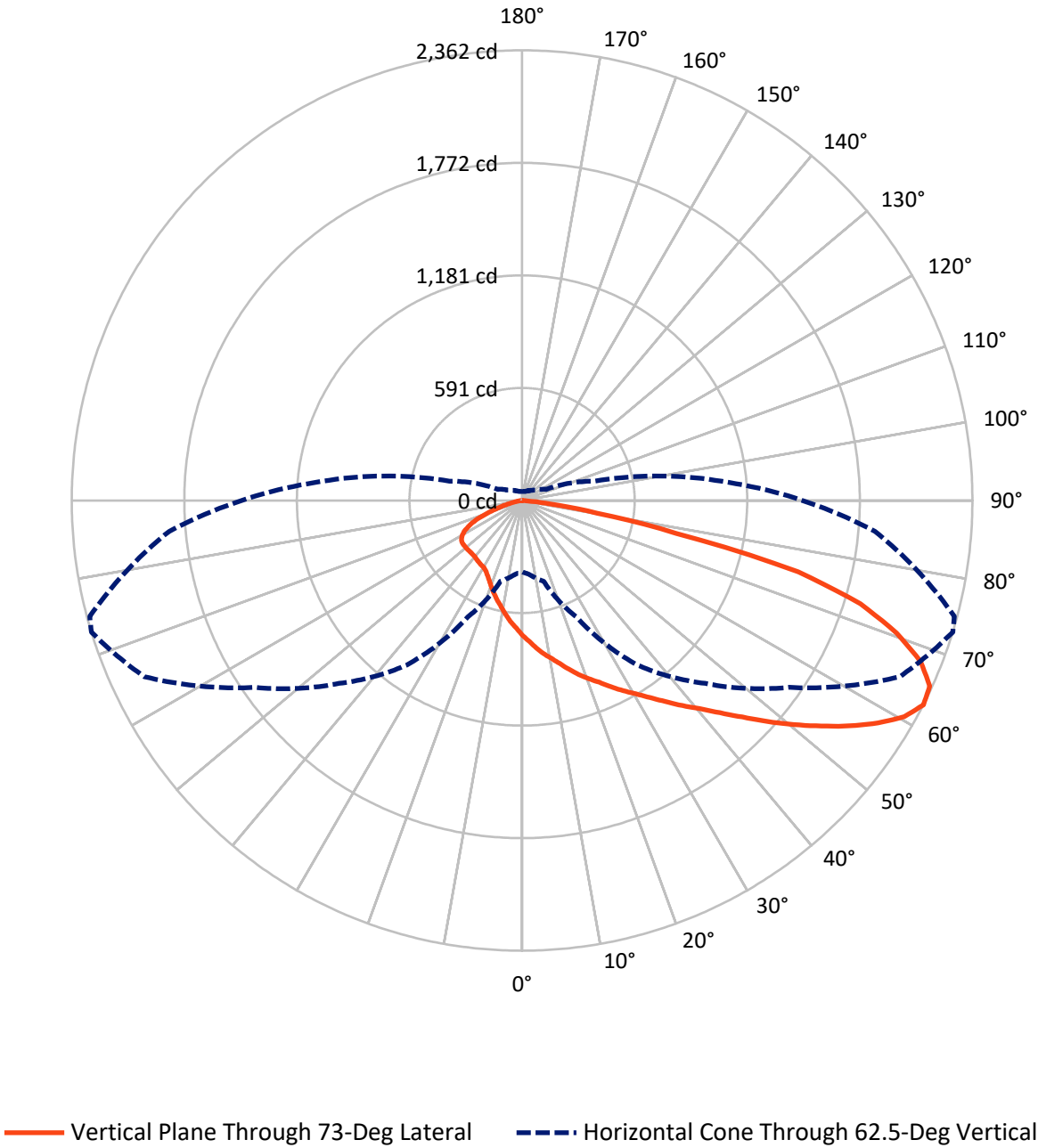
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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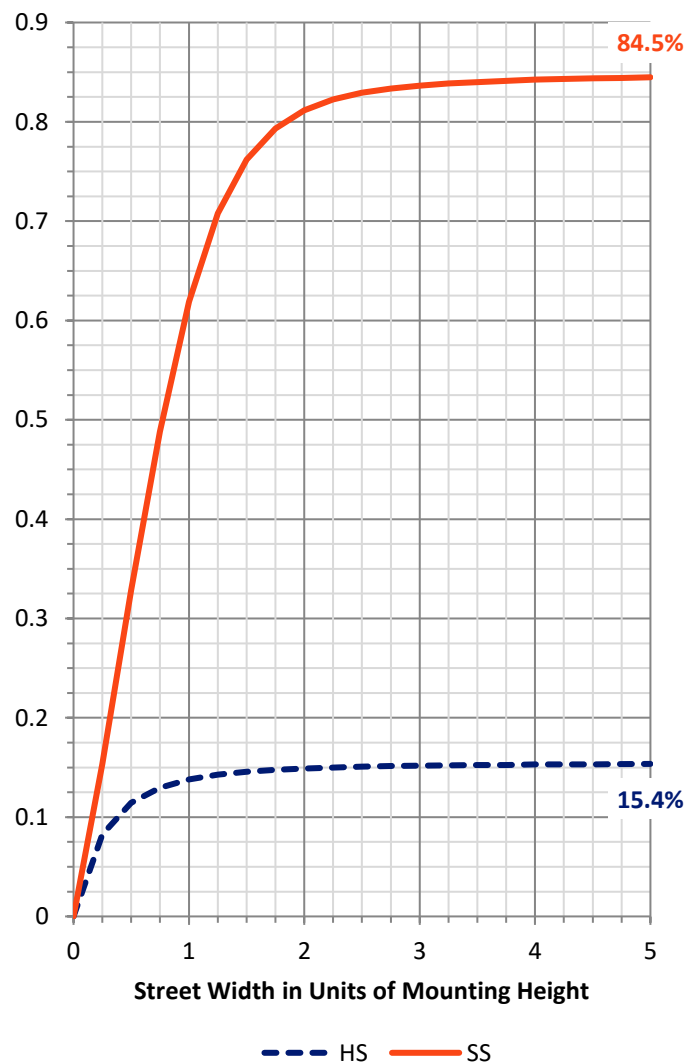
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	582.2	0.0	582.2
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	3173.8	0.0	3173.8
	% Fixture	84.5	0.0	84.5
Total	Lumens	3756.0	0.0	3756.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	1.8
10°-20°	207.3	5.5
20°-30°	345.1	9.2
30°-40°	520.7	13.9
40°-50°	727.8	19.4
50°-60°	803.9	21.4
60°-70°	700.3	18.6
70°-80°	353.8	9.4
80°-90°	28.4	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°	3756.0	100.0
0°-180°	3756.0	100.0

Coefficient of Utilization



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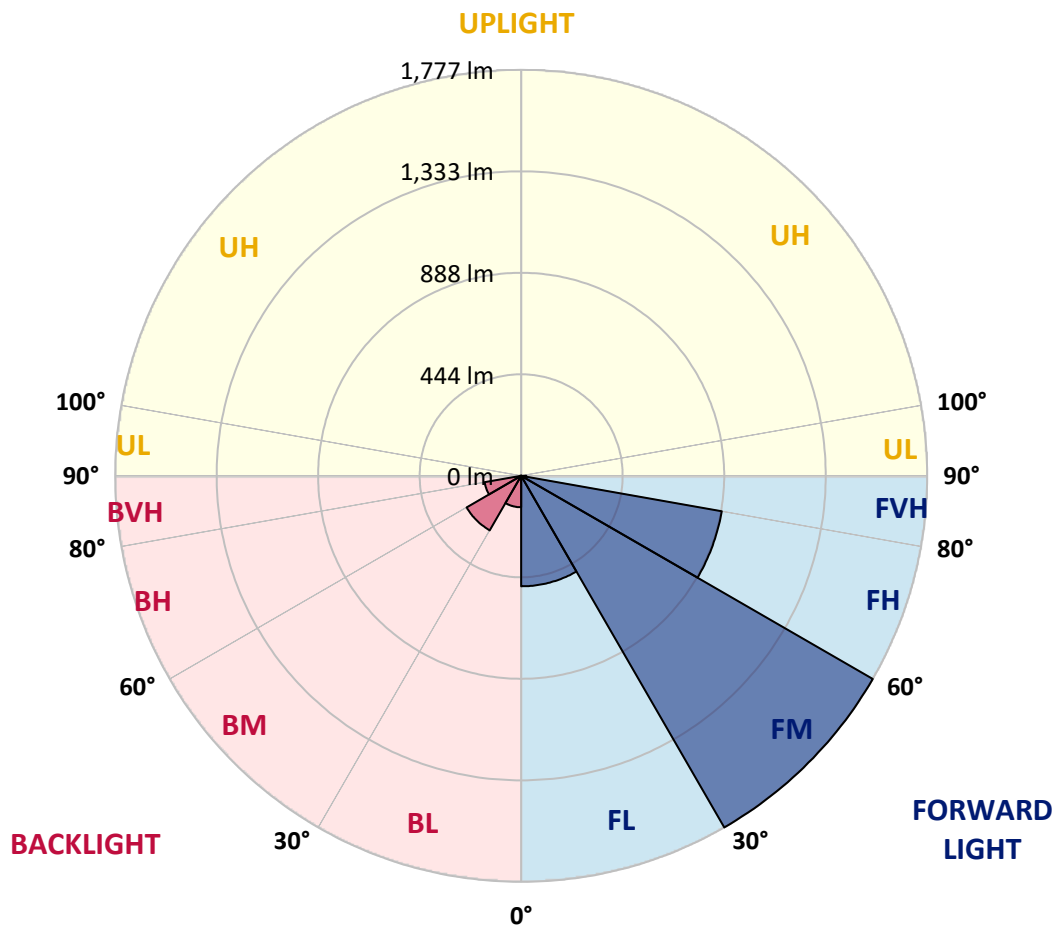
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	483.5	12.9			
FM	(30°-60°)	1776.7	47.3			
FH	(60°-80°)	891.6	23.7			G1/1800
FVH	(80°-90°)	22.0	0.6			G1/100
BL	(0°-30°)	137.6	3.7	B1/500		
BM	(30°-60°)	275.7	7.3	B1/1000		
BH	(60°-80°)	162.5	4.3	B1/500		G1/500
BVH	(80°-90°)	6.4	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°	711.2	711.2	711.2	711.2	711.2	711.2	711.2	711.2	711.2	711.2	711.2
2.5°	809.4	818.4	813.5	816.8	800.4	789.8	777.5	753.8	740.7	739.0	723.5
5°	928.1	937.9	929.7	927.3	898.6	874.1	846.2	804.5	776.7	771.8	737.4
7.5°	1046.8	1055.8	1045.9	1038.6	1000.1	956.7	915.8	854.4	811.1	802.9	748.9
10°	1130.2	1138.4	1131.1	1123.7	1083.6	1039.4	981.3	901.1	842.2	829.1	756.2
12.5°	1193.3	1198.2	1194.9	1188.3	1150.7	1103.2	1047.6	953.5	877.3	861.0	767.7
15°	1244.8	1253.0	1248.9	1244.0	1208.0	1160.5	1107.3	1008.3	918.3	897.8	784.9
17.5°	1279.2	1284.9	1285.7	1285.7	1253.8	1207.2	1155.6	1058.2	959.2	933.0	801.2
20°	1294.7	1301.3	1305.4	1311.9	1285.7	1245.6	1193.3	1100.8	997.7	968.2	816.8
22.5°	1302.1	1307.8	1318.5	1333.2	1311.9	1278.4	1230.1	1140.1	1036.1	1005.0	834.8
25°	1307.8	1315.2	1330.8	1358.6	1343.8	1315.2	1273.5	1185.1	1082.0	1050.0	861.0
27.5°	1323.4	1332.4	1347.1	1380.7	1362.7	1348.8	1319.3	1233.4	1130.2	1097.5	892.9
30°	1377.4	1384.8	1383.9	1405.2	1383.1	1379.0	1358.6	1280.0	1176.9	1144.2	930.5
32.5°	1475.6	1483.0	1465.0	1456.8	1408.5	1409.3	1401.1	1329.9	1232.5	1199.0	973.9
35°	1581.2	1589.4	1565.6	1551.7	1470.7	1447.0	1451.1	1392.1	1294.7	1261.2	1027.9
37.5°	1675.3	1685.1	1664.7	1644.2	1562.4	1507.5	1506.7	1461.7	1365.9	1331.6	1087.7
40°	1726.9	1738.3	1750.6	1739.1	1653.2	1592.6	1566.5	1532.9	1436.3	1401.1	1152.3
42.5°	1751.4	1783.3	1805.4	1798.1	1727.7	1666.3	1635.2	1607.4	1522.3	1487.9	1229.3
45°	1682.7	1683.5	1730.1	1770.2	1757.1	1716.2	1710.5	1690.9	1620.5	1587.7	1316.0
47.5°	1596.7	1590.2	1622.9	1694.1	1731.0	1741.6	1775.2	1783.3	1732.6	1699.9	1404.4
50°	1390.5	1394.6	1501.0	1603.3	1675.3	1744.1	1821.0	1878.3	1848.0	1816.9	1497.7
52.5°	1131.1	1140.9	1262.8	1487.9	1601.6	1719.5	1848.0	1973.2	1965.8	1936.4	1591.0
55°	906.8	922.4	1051.7	1295.6	1507.5	1664.7	1859.4	2060.0	2087.8	2060.8	1682.7
57.5°	693.2	709.6	818.4	1068.9	1387.2	1575.5	1851.3	2136.1	2201.5	2184.4	1767.0
60°	522.2	538.5	608.1	866.7	1236.6	1475.6	1810.3	2186.0	2303.9	2285.8	1828.3
62.5°	374.0	387.1	438.7	674.4	1053.3	1356.9	1709.7	2186.8	2362.0	2347.2	1857.8
65°	269.3	269.3	311.0	481.2	881.4	1214.5	1557.5	2086.2	2349.7	2345.6	1837.4
67.5°	194.0	195.6	229.2	336.4	703.0	1041.8	1360.2	1906.9	2254.7	2275.2	1763.7
70°	137.5	141.6	157.1	234.9	531.2	822.5	1149.1	1672.0	2083.7	2119.7	1621.3
72.5°	106.4	108.8	119.5	163.7	387.9	611.4	915.8	1410.1	1855.4	1896.3	1427.3
75°	81.8	84.3	92.5	120.3	278.3	428.9	650.6	1094.2	1496.1	1568.9	1146.6
77.5°	59.7	63.0	68.7	87.6	162.0	272.5	394.5	615.5	825.8	860.2	600.7
80°	27.8	31.9	40.1	56.5	87.6	128.5	139.9	237.3	396.9	414.9	325.7
82.5°	15.5	19.6	22.9	34.4	44.2	45.8	47.5	59.7	149.8	165.3	136.7
85°	7.4	9.8	10.6	14.7	14.7	13.1	15.5	11.5	24.6	29.5	28.6
87.5°	0.0	0.8	1.6	4.1	3.3	2.5	2.5	2.5	2.5	3.3	2.5
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°	711.2	711.2	711.2	711.2	711.2	711.2	711.2	711.2	711.2	711.2	711.2
2.5°	716.1	705.5	680.9	659.6	645.7	633.5	617.1	609.7	596.6	599.1	591.7
5°	720.2	700.6	657.2	617.1	587.6	561.4	532.8	516.4	498.4	496.8	491.1
7.5°	722.7	692.4	630.2	573.7	528.7	488.6	450.1	428.9	406.8	401.8	396.9
10°	720.2	680.1	602.4	528.7	469.0	419.0	375.7	348.6	325.7	320.0	315.1
12.5°	722.7	673.6	576.2	487.0	415.8	359.3	310.2	282.4	261.1	255.3	252.1
15°	728.4	669.5	554.1	449.3	368.3	305.3	257.0	233.2	216.1	210.3	208.7
17.5°	733.3	665.4	530.3	412.5	320.8	257.8	216.1	196.4	181.7	176.0	174.3
20°	739.9	659.6	506.6	377.3	279.1	220.2	183.3	166.1	154.7	150.6	149.8
22.5°	745.6	655.6	484.5	342.1	240.6	189.9	158.8	144.9	136.7	132.6	132.6
25°	760.3	657.2	465.7	309.4	212.0	166.1	139.9	129.3	122.8	120.3	120.3
27.5°	777.5	663.7	450.9	281.5	187.4	148.1	126.9	117.9	114.6	111.3	112.1
30°	802.1	676.8	441.1	258.6	169.4	134.2	116.2	109.7	106.4	105.6	105.6
32.5°	833.2	698.1	440.3	243.9	156.3	123.6	108.8	103.1	101.5	100.7	100.7
35°	870.0	716.9	435.4	237.3	148.1	116.2	103.1	99.0	98.2	98.2	98.2
37.5°	914.2	748.0	432.1	228.3	144.0	112.1	99.0	95.8	95.8	95.8	95.8
40°	960.0	773.4	427.2	220.2	142.4	109.7	96.6	92.5	92.5	92.5	92.5
42.5°	1014.8	810.2	425.6	216.1	139.9	108.0	93.3	88.4	89.2	89.2	90.0
45°	1081.1	852.0	424.8	212.0	139.1	106.4	90.0	84.3	85.1	84.3	84.3
47.5°	1148.2	900.3	427.2	209.5	138.3	104.8	87.6	80.2	80.2	79.4	79.4
50°	1218.6	944.5	428.9	207.1	136.7	101.5	83.5	76.9	75.3	73.7	74.5
52.5°	1284.9	985.4	429.7	203.0	131.8	96.6	80.2	72.8	70.4	67.9	68.7
55°	1351.2	1024.7	431.3	198.1	125.2	91.7	76.1	68.7	65.5	62.2	62.2
57.5°	1411.0	1059.0	427.2	185.8	117.9	86.8	72.0	63.8	58.9	55.7	55.7
60°	1451.9	1083.6	414.9	167.8	108.0	81.0	67.9	58.9	53.2	50.7	50.7
62.5°	1471.5	1087.7	392.8	138.3	95.8	75.3	63.0	54.0	49.1	47.5	47.5
65°	1452.7	1069.7	358.5	103.9	82.7	68.7	58.1	49.9	45.0	40.9	40.9
67.5°	1387.2	1018.9	311.0	78.6	70.4	62.2	53.2	45.8	40.1	36.8	36.8
70°	1255.5	913.4	240.6	63.0	59.7	54.0	48.3	40.9	36.0	31.9	31.9
72.5°	1082.8	774.2	169.4	50.7	50.7	45.8	40.9	36.0	31.1	27.8	27.8
75°	830.7	572.9	113.8	40.9	41.7	38.5	33.6	29.5	26.2	23.7	23.7
77.5°	453.4	283.2	69.6	30.3	31.1	29.5	26.2	23.7	22.1	19.6	19.6
80°	220.2	124.4	40.1	21.3	22.1	21.3	19.6	17.2	17.2	15.5	15.5
82.5°	92.5	46.6	21.3	14.7	14.7	13.1	12.3	12.3	12.3	11.5	11.5
85°	22.9	9.0	9.0	8.2	8.2	8.2	7.4	7.4	7.4	5.7	6.5
87.5°	3.3	3.3	3.3	3.3	3.3	3.3	2.5	0.8	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)