

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: P798786

Luminaire Tested: **ARCH1-30-750-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-30-750-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3390 lumens
Efficiency: N/A
Efficacy: 102.7 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): 33
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



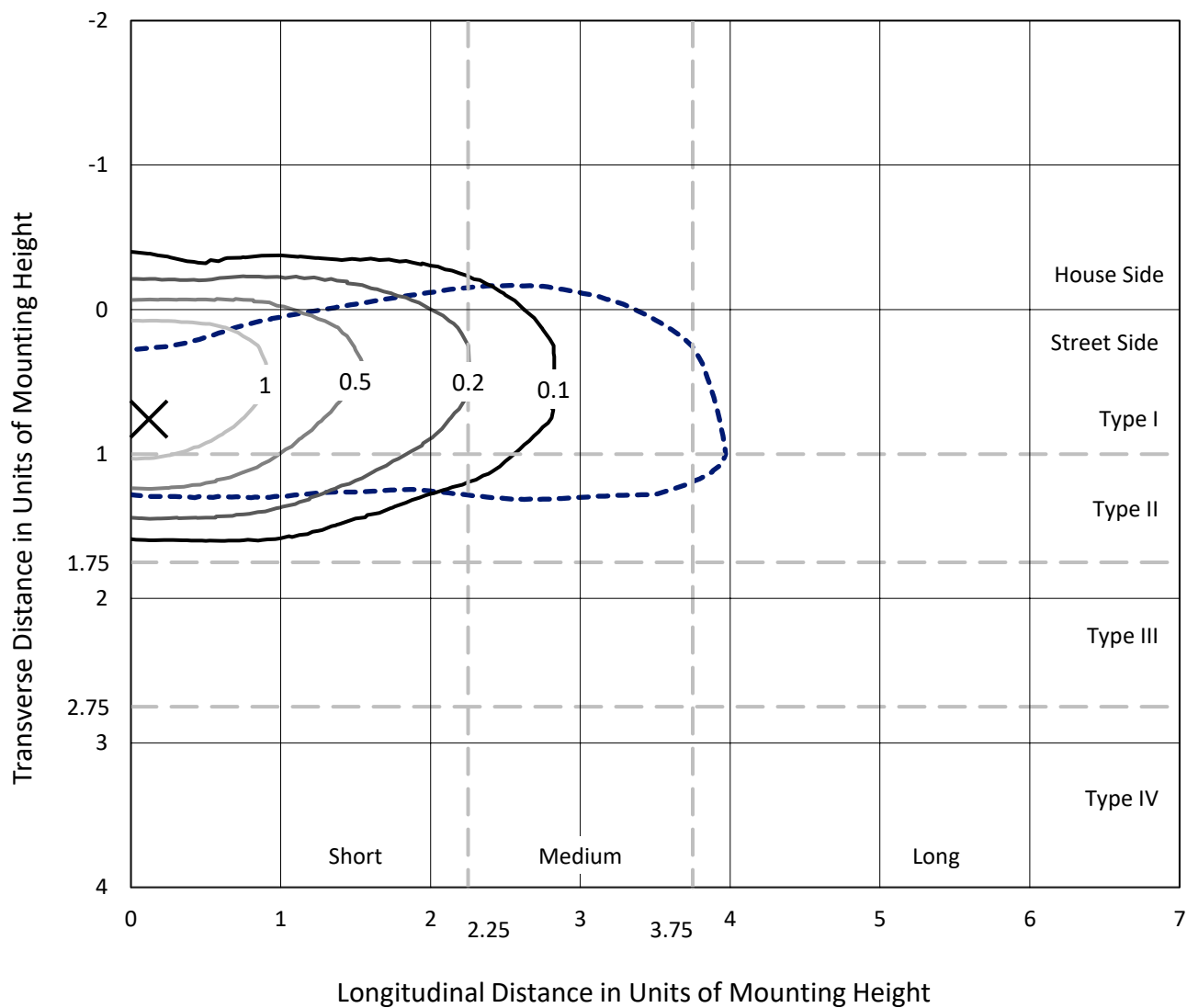
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

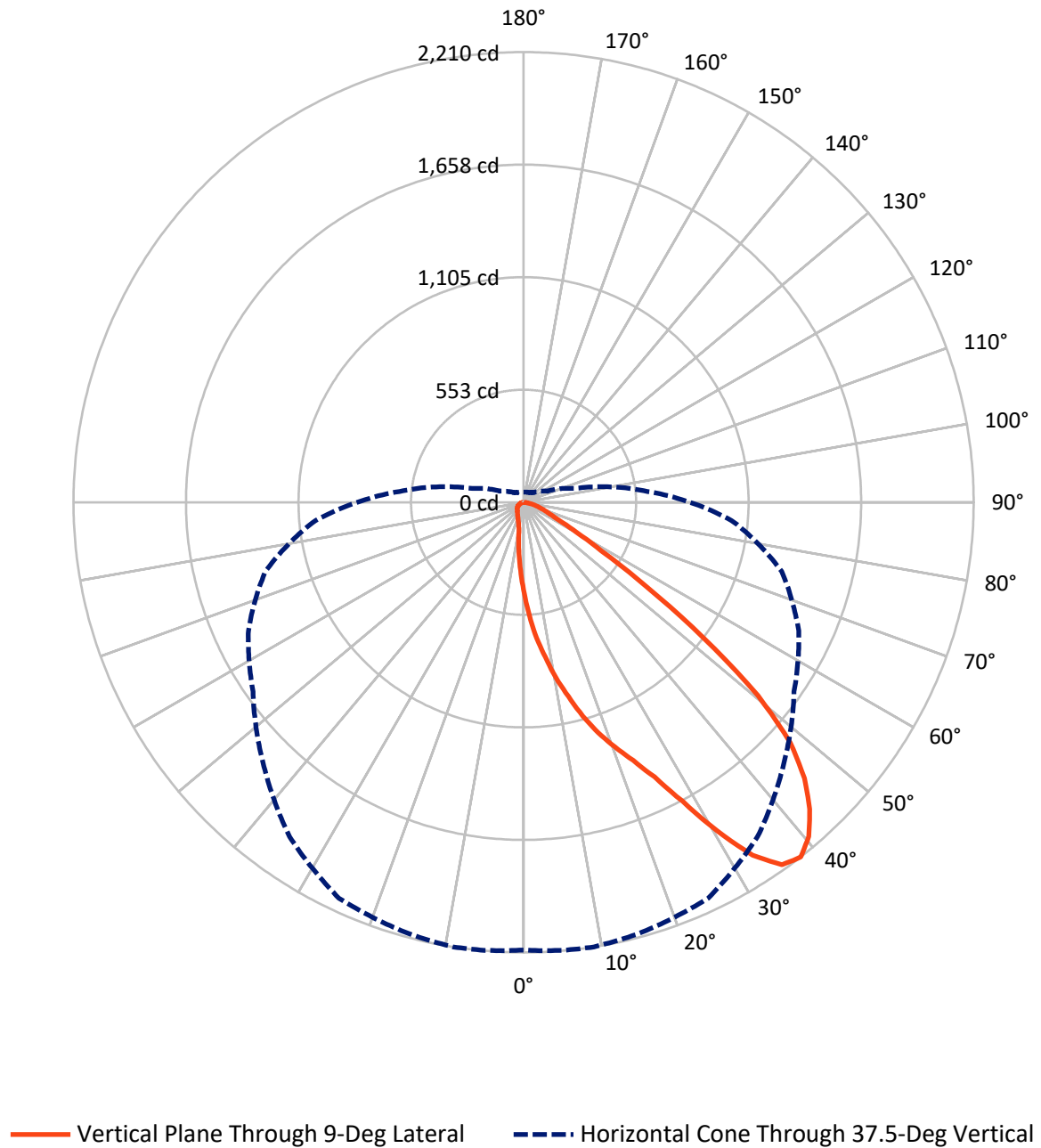


Based on 25 foot mounting height. Maximum calculated value = 2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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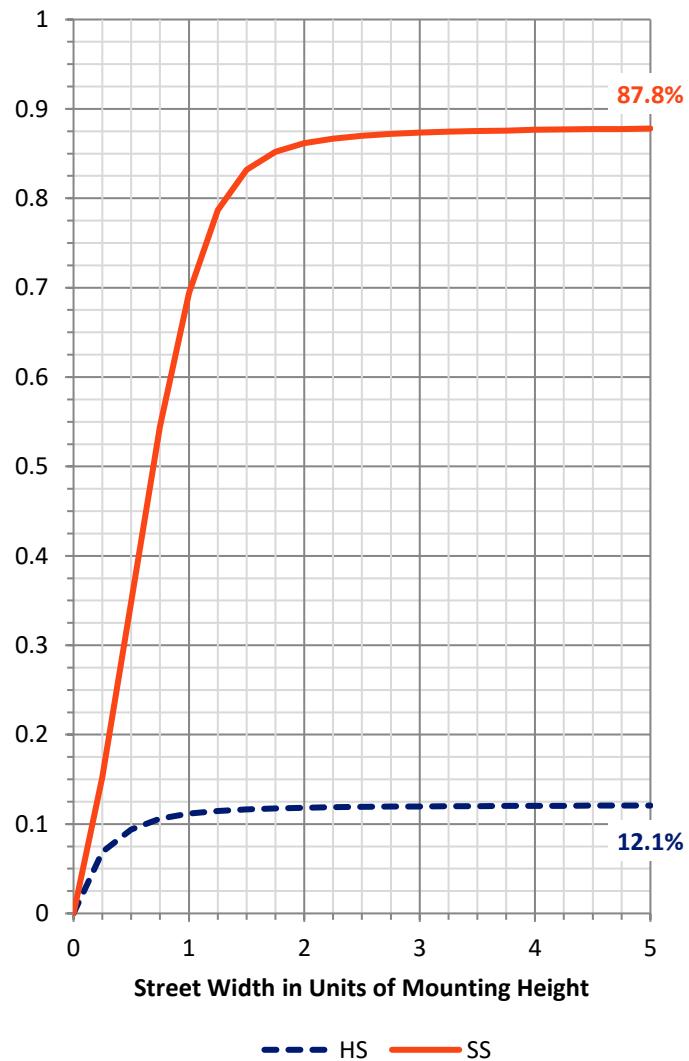
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	412.3	0.0	412.3
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	2977.7	0.0	2977.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	3390.0	0.0	3390.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.0	1.3
10°-20°	156.6	4.6
20°-30°	321.7	9.5
30°-40°	568.6	16.8
40°-50°	755.3	22.3
50°-60°	716.4	21.1
60°-70°	546.5	16.1
70°-80°	265.0	7.8
80°-90°	14.9	0.4
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°	3390.0	100.0
0°-180°	3390.0	100.0

Coefficient of Utilization



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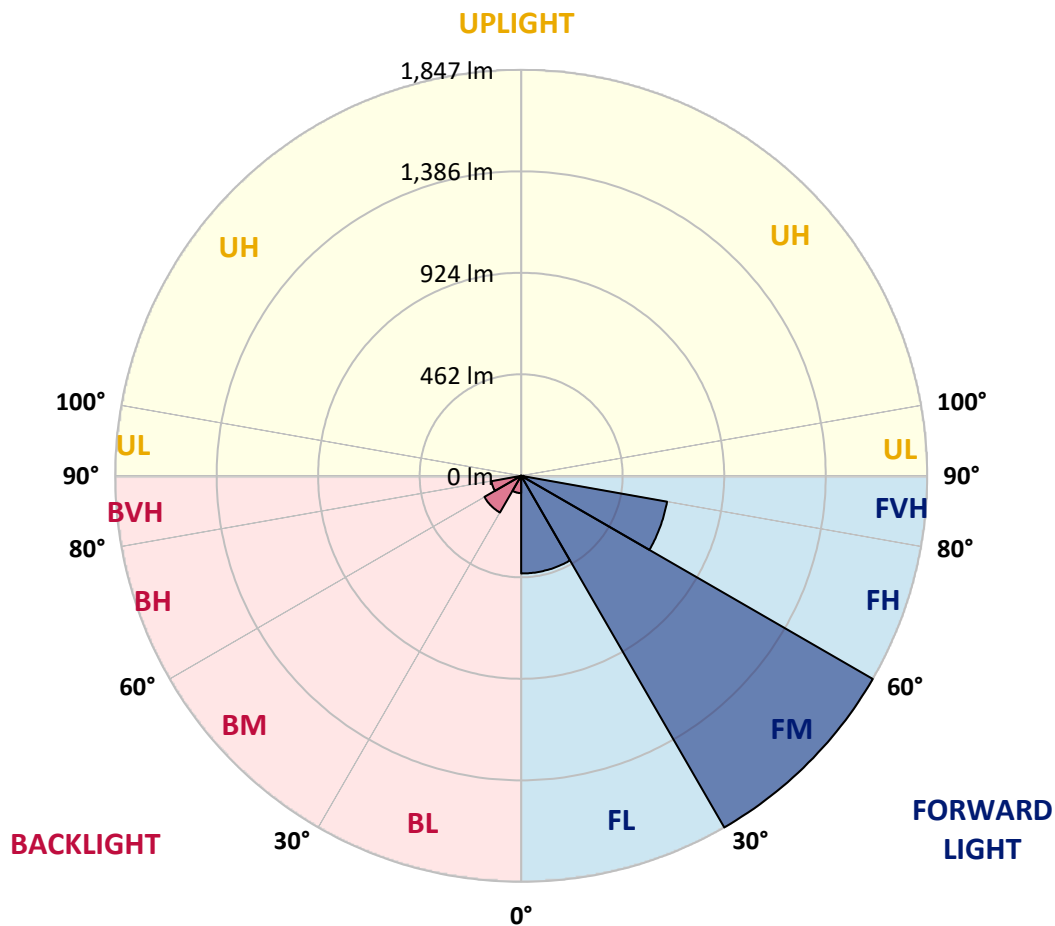
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	444.6	13.1			
FM	(30°-60°)	1847.4	54.5			
FH	(60°-80°)	673.9	19.9			G1/1800
FVH	(80°-90°)	11.8	0.3			G1/100
BL	(0°-30°)	78.7	2.3	B0/110		
BM	(30°-60°)	192.9	5.7	B0/220		
BH	(60°-80°)	137.6	4.1	B1/500		G1/500
BVH	(80°-90°)	3.1	0.1			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°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	448.1	448.1	448.1	448.1	448.1	448.1	448.1	448.1	448.1	448.1	448.1
2.5°	555.3	545.5	556.7	555.3	545.5	539.3	519.8	513.5	490.6	473.9	459.3
5°	669.4	659.7	669.4	666.6	652.7	637.4	605.4	584.5	543.4	507.3	474.6
7.5°	764.0	764.0	768.2	768.9	752.2	728.5	688.9	657.6	599.8	544.1	492.0
10°	866.3	867.0	876.1	869.8	847.5	815.5	765.4	725.8	656.2	583.1	508.7
12.5°	975.6	976.3	979.0	976.3	949.8	908.8	848.2	796.0	716.0	627.6	531.6
15°	1084.8	1085.5	1089.0	1084.1	1054.9	1006.9	938.0	874.0	779.3	677.7	559.5
17.5°	1187.1	1188.5	1191.3	1185.0	1154.4	1097.3	1027.1	949.8	846.8	731.3	590.8
20°	1278.9	1280.3	1282.4	1274.1	1243.5	1186.4	1110.6	1029.8	915.7	786.3	624.9
22.5°	1371.5	1372.9	1376.4	1365.2	1331.1	1265.7	1191.3	1107.8	988.8	846.8	664.5
25°	1489.8	1491.2	1494.0	1478.0	1431.3	1354.8	1276.2	1190.6	1068.1	915.0	713.2
27.5°	1663.0	1661.7	1661.7	1632.4	1552.4	1452.9	1361.7	1274.8	1153.7	988.1	766.8
30°	1877.4	1873.9	1871.8	1832.1	1718.0	1563.5	1449.4	1353.4	1235.8	1065.3	824.6
32.5°	2069.4	2069.4	2065.2	2023.5	1902.4	1712.4	1542.7	1429.9	1315.1	1143.3	884.4
35°	2182.8	2187.7	2185.6	2154.3	2065.9	1872.5	1668.6	1521.8	1398.6	1224.7	956.1
37.5°	2198.1	2207.9	2210.0	2191.2	2144.6	2003.3	1808.5	1621.3	1490.5	1312.3	1025.7
40°	2136.2	2157.1	2157.1	2154.3	2137.6	2065.2	1926.1	1736.8	1585.1	1403.5	1095.9
42.5°	2040.9	2062.5	2059.7	2070.1	2065.9	2050.6	1992.2	1844.7	1679.7	1497.4	1160.0
45°	1916.3	1938.6	1933.0	1951.8	1960.2	1976.9	1985.2	1919.8	1773.0	1599.7	1231.6
47.5°	1716.6	1754.2	1762.5	1795.9	1830.7	1882.9	1922.6	1946.9	1860.0	1709.7	1309.6
50°	1421.6	1474.5	1491.2	1561.5	1656.8	1764.6	1828.7	1913.5	1921.2	1822.4	1393.8
52.5°	1018.0	1079.2	1105.0	1220.5	1416.7	1604.6	1720.1	1839.8	1944.9	1930.2	1484.9
55°	658.3	710.4	735.5	844.0	1105.0	1400.0	1592.1	1744.5	1931.6	2029.1	1589.3
57.5°	405.7	435.6	452.3	545.5	785.6	1137.7	1424.4	1656.8	1891.3	2114.6	1697.8
60°	273.5	290.9	299.2	343.0	533.7	850.3	1194.1	1564.9	1838.4	2172.4	1796.6
62.5°	181.6	187.2	195.5	222.7	352.1	597.0	917.1	1400.7	1798.7	2175.9	1869.7
65°	140.6	143.3	146.8	158.7	217.1	417.5	645.0	1134.9	1739.6	2102.1	1892.7
67.5°	110.6	113.4	117.6	123.9	157.3	283.2	439.1	831.5	1618.5	1986.6	1855.1
70°	87.0	89.1	91.9	97.4	122.5	205.3	290.2	552.5	1374.3	1876.7	1736.8
72.5°	68.9	71.0	73.8	79.3	99.5	150.3	199.0	344.4	1059.8	1742.4	1509.3
75°	54.3	55.7	57.8	63.3	80.0	116.9	135.0	206.0	720.2	1496.7	1176.0
77.5°	27.1	33.4	38.3	43.8	58.5	80.7	89.8	114.1	304.1	768.2	560.8
80°	16.0	19.5	20.9	24.4	38.3	48.7	48.7	45.9	96.0	295.0	228.9
82.5°	9.0	12.5	13.2	13.9	23.0	27.8	22.3	16.7	19.5	98.8	66.8
85°	2.8	4.2	4.9	5.6	7.7	8.4	7.7	7.0	5.6	9.7	6.3
87.5°	0.0	0.0	0.0	0.0	0.7	1.4	1.4	1.4	2.1	2.1	2.1
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°	448.1	448.1	448.1	448.1	448.1	448.1	448.1	448.1	448.1	448.1	448.1
2.5°	450.9	441.9	424.5	408.5	393.1	382.0	371.6	361.8	354.9	349.3	348.6
5°	457.2	439.1	405.7	374.4	345.8	322.2	302.0	286.0	274.2	265.8	265.1
7.5°	465.5	437.7	386.9	340.3	297.8	263.7	234.5	212.9	197.6	191.4	186.5
10°	472.5	436.3	368.1	306.2	250.5	207.4	172.6	151.0	139.9	135.7	133.6
12.5°	484.3	437.7	352.1	274.9	209.4	158.7	132.2	120.4	115.5	112.0	111.3
15°	501.7	443.9	336.8	244.2	167.7	128.0	112.7	105.1	100.2	99.5	98.8
17.5°	519.1	449.5	322.9	212.9	139.2	111.3	100.9	94.6	91.2	90.5	90.5
20°	539.3	456.5	307.6	183.0	119.0	100.2	91.9	87.0	82.8	82.1	82.1
22.5°	562.9	466.2	292.9	156.6	105.8	91.9	84.9	79.3	75.8	75.2	75.2
25°	594.9	480.8	281.1	137.1	96.7	84.9	78.6	73.8	71.0	69.6	69.6
27.5°	630.4	501.0	272.8	125.3	90.5	79.3	73.1	68.9	66.1	64.7	64.7
30°	670.1	523.3	267.2	120.4	87.0	74.5	68.9	64.7	61.2	60.5	60.5
32.5°	713.9	549.0	263.7	121.1	86.3	71.0	64.7	60.5	57.8	56.4	56.4
35°	762.6	577.5	261.6	125.3	87.7	68.2	61.2	57.1	54.3	52.9	52.9
37.5°	816.9	610.9	261.6	129.4	91.2	67.5	57.8	53.6	51.5	50.1	50.1
40°	867.7	646.4	264.4	134.3	94.6	67.5	55.0	51.5	48.7	47.3	47.3
42.5°	907.4	666.6	266.5	139.2	96.7	66.8	52.2	48.7	46.6	45.2	45.2
45°	952.6	688.2	262.3	141.3	96.7	65.4	50.1	46.6	44.5	43.1	43.1
47.5°	1002.7	714.6	261.6	142.6	94.6	62.6	48.0	44.5	43.1	41.8	41.8
50°	1053.5	743.8	263.0	142.0	91.9	58.5	45.2	43.1	41.1	39.7	39.7
52.5°	1111.2	774.5	265.8	140.6	85.6	53.6	43.1	41.1	39.0	37.6	36.9
55°	1175.3	807.9	271.4	137.8	77.2	48.7	41.1	39.0	36.2	34.8	34.1
57.5°	1249.0	848.9	277.6	132.2	68.2	44.5	39.0	36.2	32.0	29.9	29.2
60°	1319.3	895.5	284.6	119.0	59.1	40.4	36.9	32.7	28.5	27.1	26.4
62.5°	1385.4	941.5	288.1	95.3	50.1	36.9	34.8	29.9	25.7	24.4	23.7
65°	1427.9	991.6	280.4	64.7	41.1	34.1	32.0	27.8	23.7	21.6	21.6
67.5°	1430.6	1015.2	254.0	42.4	33.4	30.6	29.2	25.1	20.9	19.5	18.8
70°	1360.4	979.7	194.1	33.4	27.8	26.4	26.4	22.3	18.1	16.7	16.0
72.5°	1198.9	867.7	123.9	27.1	23.7	22.3	22.3	18.8	16.0	13.9	13.2
75°	946.3	669.4	66.1	22.3	19.5	18.8	17.4	15.3	13.2	11.8	11.1
77.5°	434.9	295.0	30.6	16.0	14.6	14.6	13.2	11.1	10.4	9.0	9.0
80°	171.9	100.2	15.3	10.4	9.7	9.7	9.7	7.7	7.7	6.3	5.6
82.5°	47.3	20.9	7.7	6.3	6.3	6.3	5.6	4.9	4.9	4.2	4.2
85°	4.9	3.5	3.5	3.5	3.5	2.8	2.8	2.1	1.4	1.4	1.4
87.5°	2.1	2.1	2.1	2.1	2.1	1.4	0.7	0.0	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)