

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: P798834

Luminaire Tested: **ARCH1-40-722-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798834
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: ARCH1-40-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1220mA 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: 3490 lumens
Efficiency: N/A
Efficacy: 81.2 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

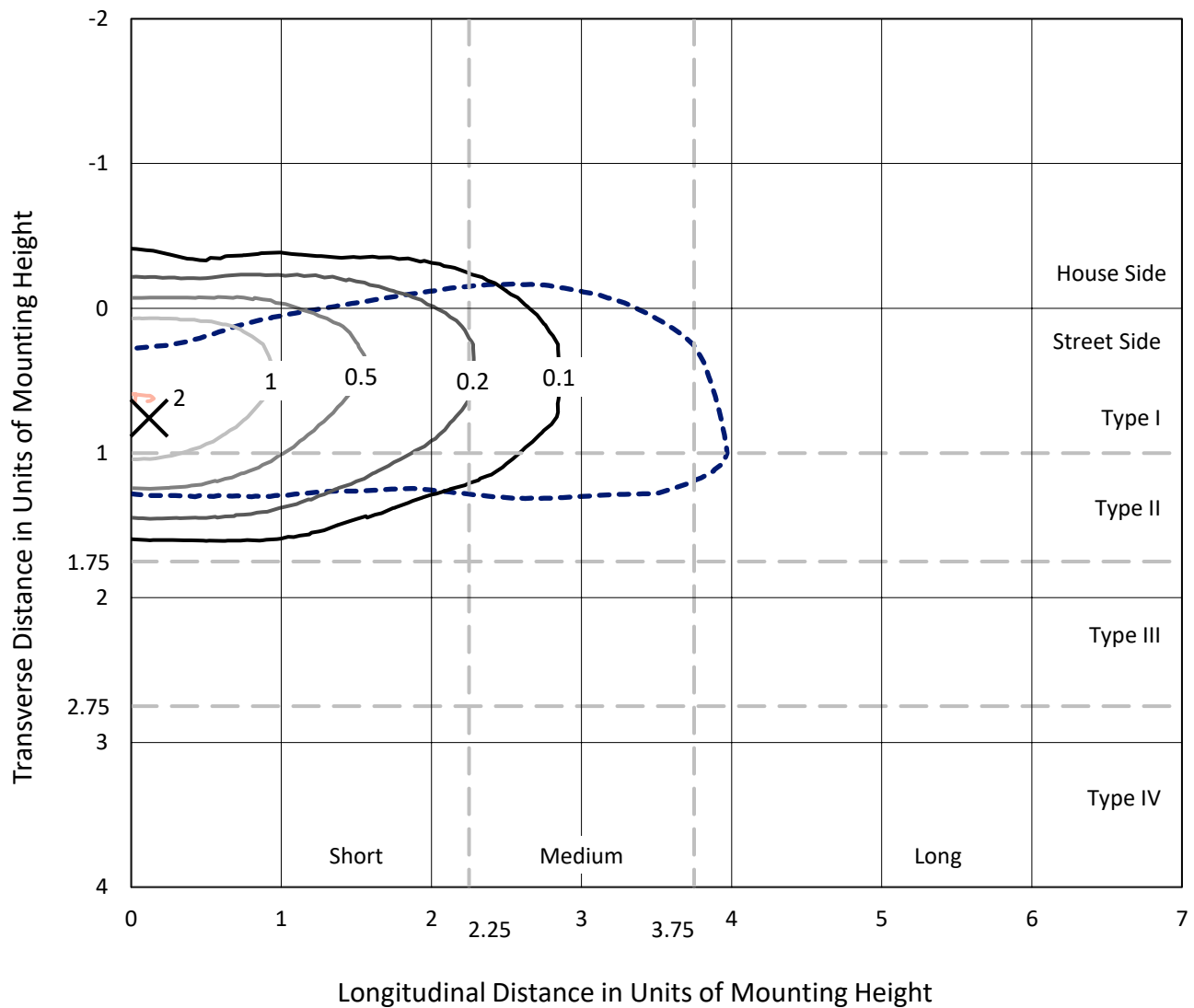


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

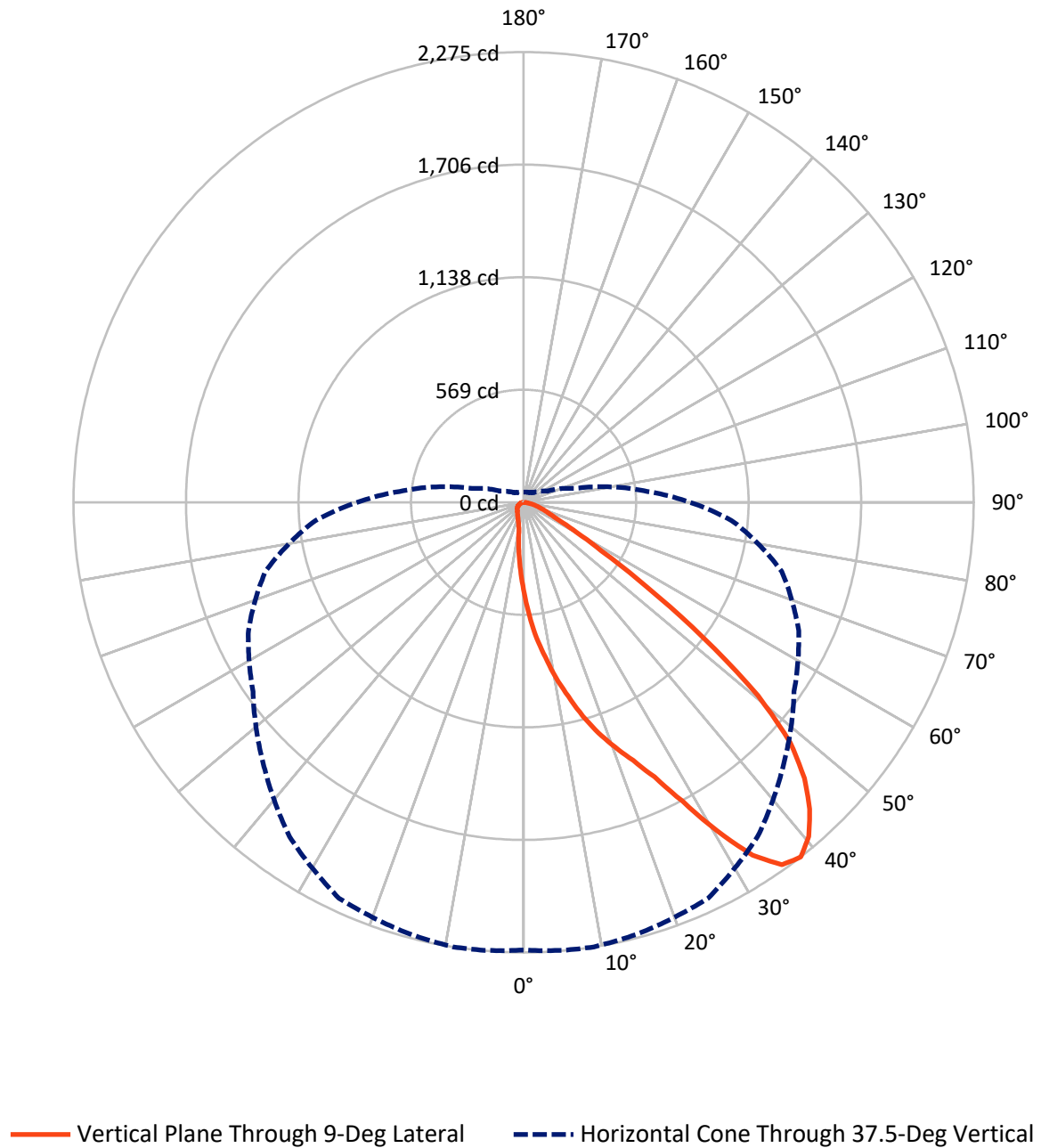


Based on 25 foot mounting height. Maximum calculated value = 2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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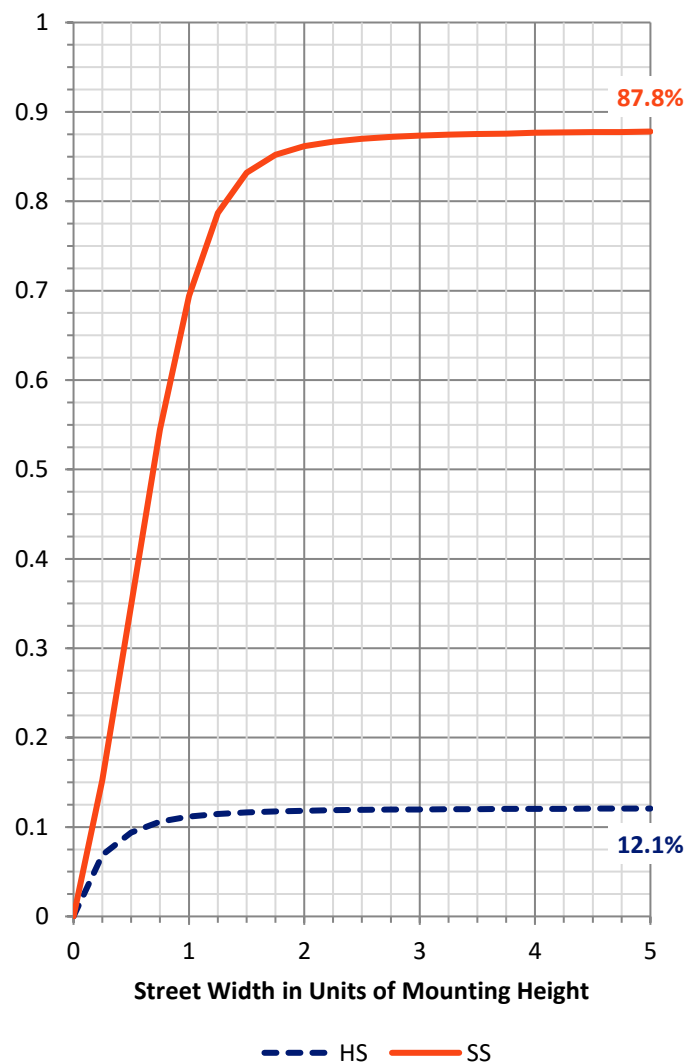
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	424.4	0.0	424.4
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	3065.6	0.0	3065.6
	% Fixture	87.8	0.0	87.8
Total	Lumens	3490.0	0.0	3490.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.4	1.3
10°-20°	161.2	4.6
20°-30°	331.2	9.5
30°-40°	585.4	16.8
40°-50°	777.6	22.3
50°-60°	737.5	21.1
60°-70°	562.7	16.1
70°-80°	272.8	7.8
80°-90°	15.3	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°	3490.0	100.0
0°-180°	3490.0	100.0

Coefficient of Utilization



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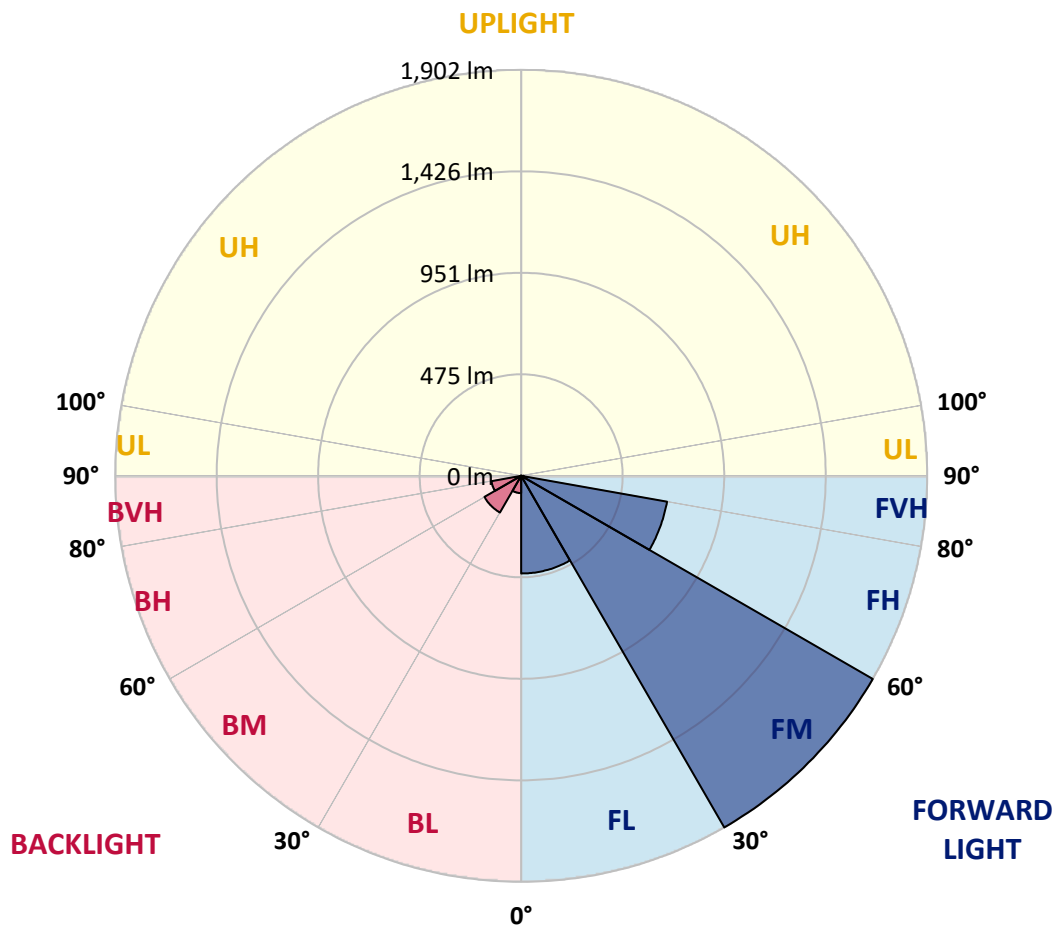
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	457.7	13.1			
FM	(30°-60°)	1901.9	54.5			
FH	(60°-80°)	693.8	19.9			G1/1800
FVH	(80°-90°)	12.2	0.3			G1/100
BL	(0°-30°)	81.0	2.3	B0/110		
BM	(30°-60°)	198.6	5.7	B0/220		
BH	(60°-80°)	141.6	4.1	B1/500		G1/500
BVH	(80°-90°)	3.2	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°	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3
2.5°	571.7	561.6	573.1	571.7	561.6	555.2	535.1	528.7	505.0	487.8	472.8
5°	689.1	679.1	689.1	686.3	671.9	656.2	623.2	601.7	559.5	522.2	488.6
7.5°	786.6	786.6	790.9	791.6	774.4	750.0	709.2	677.0	617.5	560.2	506.5
10°	891.9	892.6	901.9	895.4	872.5	839.6	788.0	747.2	675.5	600.3	523.7
12.5°	1004.3	1005.1	1007.9	1005.1	977.8	935.6	873.2	819.5	737.1	646.2	547.3
15°	1116.8	1117.5	1121.1	1116.1	1086.0	1036.6	965.7	899.7	802.3	697.7	576.0
17.5°	1222.1	1223.5	1226.4	1220.0	1188.4	1129.7	1057.3	977.8	871.8	752.9	608.2
20°	1316.7	1318.1	1320.3	1311.7	1280.1	1221.4	1143.3	1060.2	942.7	809.5	643.3
22.5°	1411.9	1413.4	1417.0	1405.5	1370.4	1303.1	1226.4	1140.4	1017.9	871.8	684.1
25°	1533.7	1535.2	1538.0	1521.5	1473.6	1394.8	1313.8	1225.7	1099.6	942.0	734.3
27.5°	1712.1	1710.7	1710.7	1680.6	1598.2	1495.8	1401.9	1312.4	1187.7	1017.2	789.4
30°	1932.7	1929.2	1927.0	1886.2	1768.7	1609.7	1492.2	1393.3	1272.3	1096.7	848.9
32.5°	2130.5	2130.5	2126.2	2083.2	1958.5	1763.0	1588.2	1472.1	1353.9	1177.0	910.5
35°	2247.2	2252.2	2250.1	2217.9	2126.9	1927.7	1717.8	1566.7	1439.9	1260.8	984.3
37.5°	2263.0	2273.0	2275.2	2255.8	2207.8	2062.4	1861.8	1669.1	1534.4	1351.1	1055.9
40°	2199.2	2220.7	2220.7	2217.9	2200.7	2126.2	1982.9	1788.0	1631.9	1444.9	1128.3
42.5°	2101.1	2123.3	2120.4	2131.2	2126.9	2111.1	2050.9	1899.1	1729.3	1541.6	1194.2
45°	1972.9	1995.8	1990.0	2009.4	2018.0	2035.2	2043.8	1976.4	1825.3	1646.9	1268.0
47.5°	1767.3	1805.9	1814.5	1848.9	1884.7	1938.5	1979.3	2004.4	1914.8	1760.1	1348.2
50°	1463.5	1518.0	1535.2	1607.5	1705.7	1816.7	1882.6	1970.0	1977.9	1876.1	1434.9
52.5°	1048.0	1111.1	1137.6	1256.5	1458.5	1651.9	1770.8	1894.1	2002.2	1987.2	1528.7
55°	677.7	731.4	757.2	868.9	1137.6	1441.3	1639.0	1795.9	1988.6	2088.9	1636.2
57.5°	417.6	448.4	465.6	561.6	808.8	1171.2	1466.4	1705.7	1947.1	2177.0	1747.9
60°	281.5	299.4	308.0	353.2	549.4	875.4	1229.3	1611.1	1892.6	2236.5	1849.6
62.5°	187.0	192.7	201.3	229.2	362.5	614.6	944.2	1442.0	1851.8	2240.1	1924.9
65°	144.7	147.6	151.2	163.3	223.5	429.8	664.1	1168.4	1790.9	2164.1	1948.5
67.5°	113.9	116.8	121.1	127.5	161.9	291.6	452.0	856.1	1666.3	2045.2	1909.8
70°	89.5	91.7	94.6	100.3	126.1	211.3	298.7	568.8	1414.8	1932.0	1788.0
72.5°	70.9	73.1	75.9	81.7	102.4	154.7	204.9	354.6	1091.0	1793.8	1553.8
75°	55.9	57.3	59.5	65.2	82.4	120.3	139.0	212.0	741.4	1540.9	1210.6
77.5°	27.9	34.4	39.4	45.1	60.2	83.1	92.4	117.5	313.0	790.9	577.4
80°	16.5	20.1	21.5	25.1	39.4	50.1	50.1	47.3	98.9	303.7	235.7
82.5°	9.3	12.9	13.6	14.3	23.6	28.7	22.9	17.2	20.1	101.7	68.8
85°	2.9	4.3	5.0	5.7	7.9	8.6	7.9	7.2	5.7	10.0	6.4
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°	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3
2.5°	464.2	454.9	437.0	420.5	404.7	393.3	382.5	372.5	365.3	359.6	358.9
5°	470.6	452.0	417.6	385.4	356.0	331.7	310.9	294.4	282.2	273.6	272.9
7.5°	479.2	450.6	398.3	350.3	306.6	271.5	241.4	219.2	203.4	197.0	192.0
10°	486.4	449.2	379.0	315.2	257.9	213.5	177.7	155.5	144.0	139.7	137.5
12.5°	498.6	450.6	362.5	283.0	215.6	163.3	136.1	123.9	118.9	115.3	114.6
15°	516.5	457.0	346.7	251.4	172.6	131.8	116.1	108.2	103.2	102.4	101.7
17.5°	534.4	462.8	332.4	219.2	143.3	114.6	103.9	97.4	93.8	93.1	93.1
20°	555.2	469.9	316.6	188.4	122.5	103.2	94.6	89.5	85.2	84.5	84.5
22.5°	579.5	480.0	301.6	161.2	108.9	94.6	87.4	81.7	78.1	77.4	77.4
25°	612.5	495.0	289.4	141.1	99.6	87.4	80.9	75.9	73.1	71.6	71.6
27.5°	649.0	515.8	280.8	128.9	93.1	81.7	75.2	70.9	68.1	66.6	66.6
30°	689.9	538.7	275.1	123.9	89.5	76.7	70.9	66.6	63.0	62.3	62.3
32.5°	735.0	565.2	271.5	124.6	88.8	73.1	66.6	62.3	59.5	58.0	58.0
35°	785.1	594.6	269.4	128.9	90.3	70.2	63.0	58.7	55.9	54.4	54.4
37.5°	841.0	629.0	269.4	133.2	93.8	69.5	59.5	55.2	53.0	51.6	51.6
40°	893.3	665.5	272.2	138.3	97.4	69.5	56.6	53.0	50.1	48.7	48.7
42.5°	934.1	686.3	274.4	143.3	99.6	68.8	53.7	50.1	48.0	46.6	46.6
45°	980.7	708.5	270.1	145.4	99.6	67.3	51.6	48.0	45.8	44.4	44.4
47.5°	1032.3	735.7	269.4	146.9	97.4	64.5	49.4	45.8	44.4	43.0	43.0
50°	1084.6	765.8	270.8	146.1	94.6	60.2	46.6	44.4	42.3	40.8	40.8
52.5°	1144.0	797.3	273.6	144.7	88.1	55.2	44.4	42.3	40.1	38.7	38.0
55°	1209.9	831.7	279.4	141.8	79.5	50.1	42.3	40.1	37.3	35.8	35.1
57.5°	1285.9	874.0	285.8	136.1	70.2	45.8	40.1	37.3	33.0	30.8	30.1
60°	1358.2	922.0	293.0	122.5	60.9	41.5	38.0	33.7	29.4	27.9	27.2
62.5°	1426.3	969.2	296.6	98.1	51.6	38.0	35.8	30.8	26.5	25.1	24.4
65°	1470.0	1020.8	288.7	66.6	42.3	35.1	33.0	28.7	24.4	22.2	22.2
67.5°	1472.8	1045.2	261.5	43.7	34.4	31.5	30.1	25.8	21.5	20.1	19.3
70°	1400.5	1008.6	199.9	34.4	28.7	27.2	27.2	22.9	18.6	17.2	16.5
72.5°	1234.3	893.3	127.5	27.9	24.4	22.9	22.9	19.3	16.5	14.3	13.6
75°	974.2	689.1	68.1	22.9	20.1	19.3	17.9	15.8	13.6	12.2	11.5
77.5°	447.7	303.7	31.5	16.5	15.0	15.0	13.6	11.5	10.7	9.3	9.3
80°	176.9	103.2	15.8	10.7	10.0	10.0	10.0	7.9	7.9	6.4	5.7
82.5°	48.7	21.5	7.9	6.4	6.4	6.4	5.7	5.0	5.0	4.3	4.3
85°	5.0	3.6	3.6	3.6	3.6	2.9	2.9	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)