

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: P798968

Luminaire Tested: **ARCH1-50-722-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798968
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: ARCH1-50-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1470mA 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: 3952 lumens
Efficiency: N/A
Efficacy: 74.6 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): 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

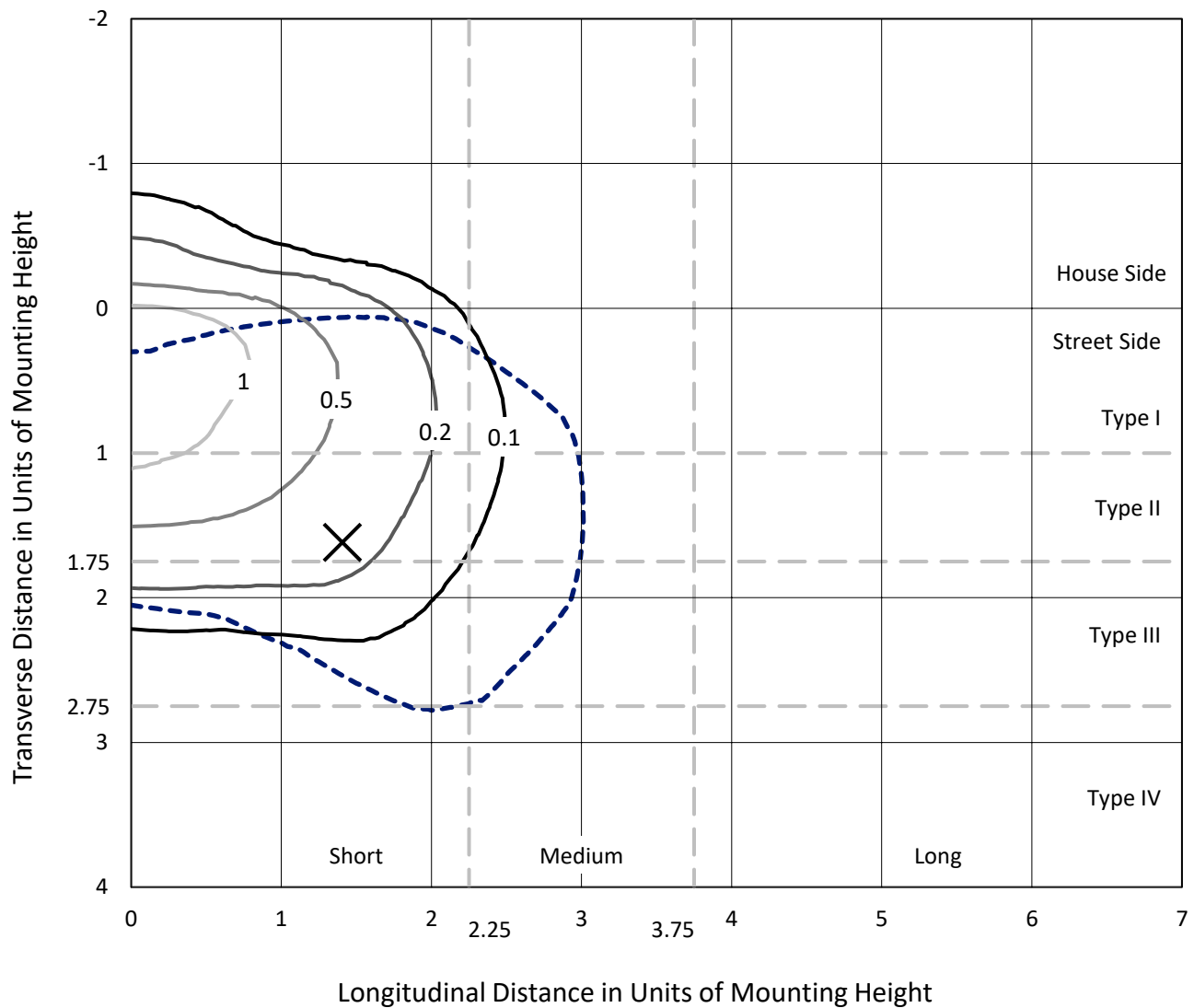


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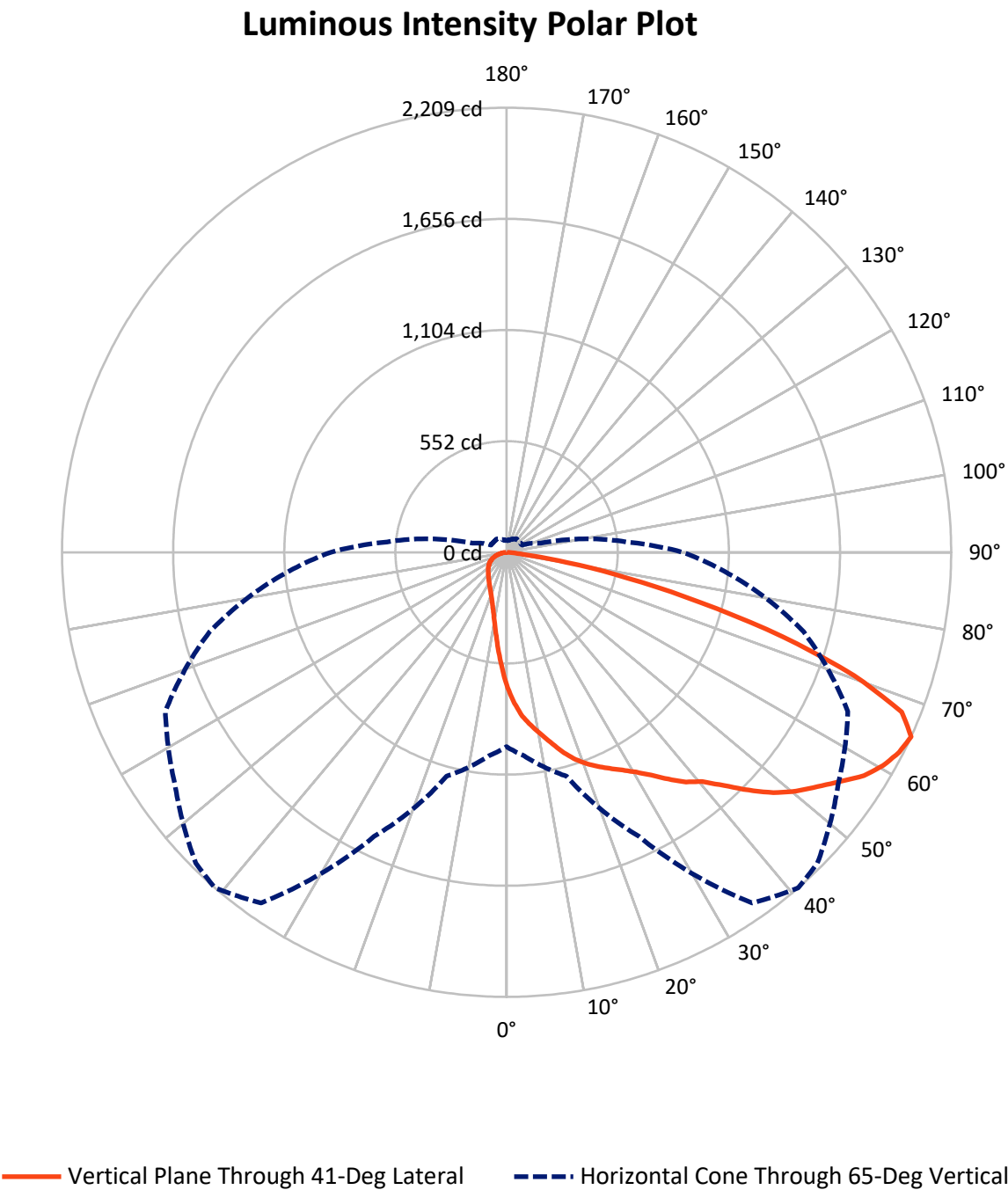
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
Type III - Short - N/A

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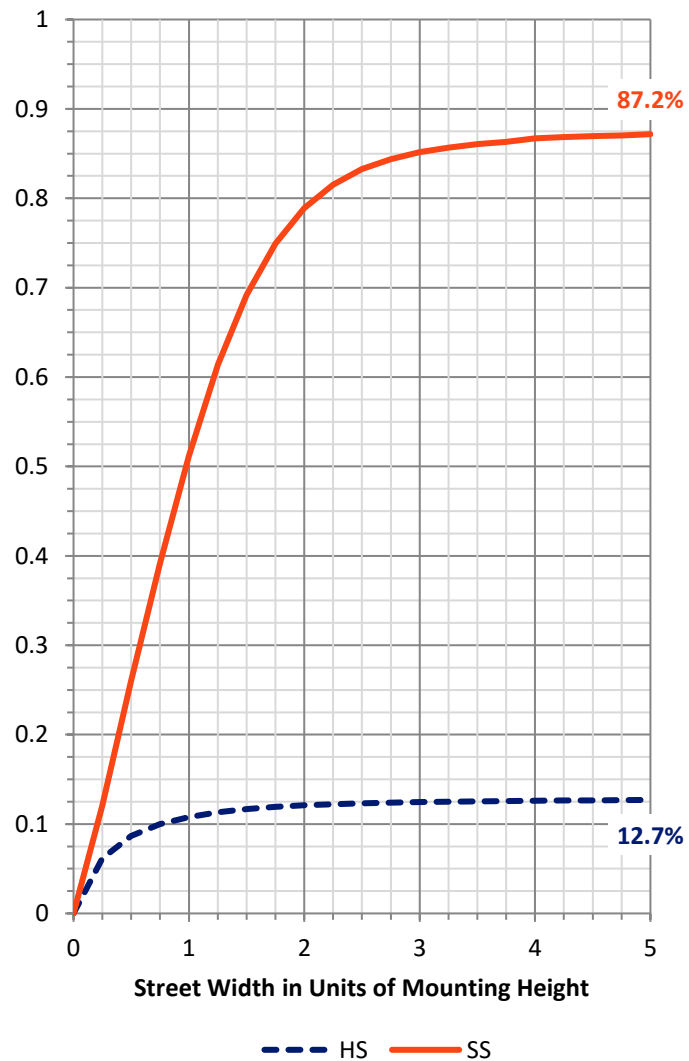
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	507.4	0.0	507.4
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	3444.6	0.0	3444.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	3952.0	0.0	3952.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.7	1.6
10°-20°	188.1	4.8
20°-30°	323.7	8.2
30°-40°	490.9	12.4
40°-50°	719.2	18.2
50°-60°	908.2	23.0
60°-70°	851.6	21.5
70°-80°	379.5	9.6
80°-90°	28.1	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°	3952.0	100.0
0°-180°	3952.0	100.0

Coefficient of Utilization



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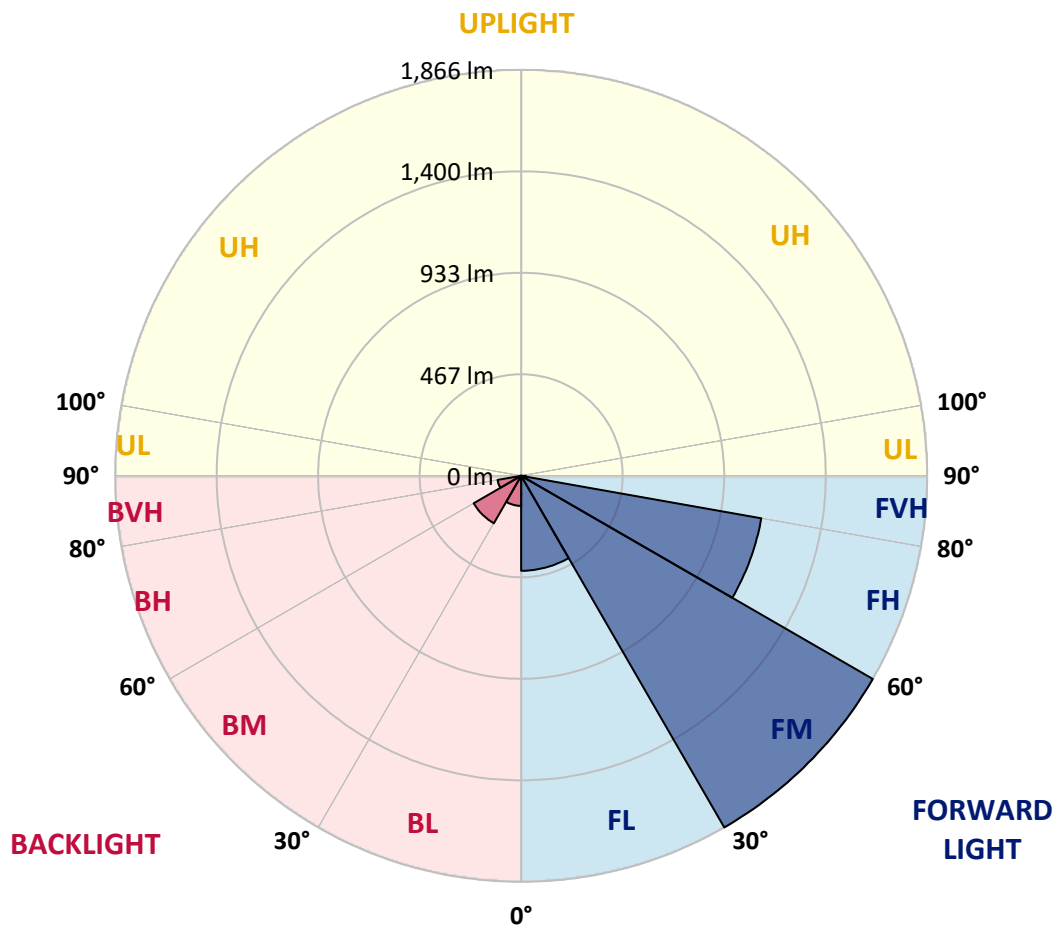
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	436.4	11.0			
FM	(30°-60°)	1866.3	47.2			
FH	(60°-80°)	1120.9	28.4			G1/1800
FVH	(80°-90°)	21.0	0.5			G1/100
BL	(0°-30°)	138.1	3.5	B1/500		
BM	(30°-60°)	251.9	6.4	B1/1000		
BH	(60°-80°)	110.2	2.8	B1/500		G1/500
BVH	(80°-90°)	7.1	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°	673.4	673.4	673.4	673.4	673.4	673.4	673.4	673.4	673.4	673.4	673.4
2.5°	776.7	774.2	772.6	763.4	763.4	750.9	751.7	740.1	725.9	703.4	679.2
5°	850.1	846.8	842.6	833.4	830.1	817.6	815.9	799.2	775.1	735.9	692.6
7.5°	914.3	910.9	905.1	891.8	882.6	867.6	863.4	841.8	815.1	766.7	705.9
10°	972.6	970.1	962.6	945.9	933.4	915.1	907.6	878.4	845.1	791.7	716.7
12.5°	1031.8	1028.4	1018.4	1004.3	989.3	967.6	958.4	920.9	878.4	819.2	732.6
15°	1086.8	1081.8	1074.3	1059.3	1045.9	1025.1	1015.1	970.9	919.3	850.1	753.4
17.5°	1122.6	1118.4	1111.8	1103.4	1092.6	1076.8	1066.8	1023.4	960.1	880.1	775.1
20°	1144.3	1142.6	1140.1	1135.1	1130.1	1119.3	1111.8	1070.9	1004.3	909.3	795.9
22.5°	1160.9	1159.3	1158.4	1158.4	1159.3	1155.1	1150.1	1115.1	1046.8	940.1	815.1
25°	1186.8	1186.0	1184.3	1182.6	1188.5	1189.3	1187.6	1163.4	1100.1	980.9	839.2
27.5°	1222.6	1220.1	1216.8	1215.1	1221.0	1225.1	1228.5	1211.8	1156.8	1022.6	866.8
30°	1277.6	1270.1	1261.8	1256.0	1260.1	1266.8	1274.3	1264.3	1215.1	1074.3	895.1
32.5°	1342.6	1333.5	1314.3	1303.5	1314.3	1319.3	1325.1	1320.1	1276.0	1130.1	923.4
35°	1421.8	1411.0	1391.0	1375.1	1394.3	1383.5	1381.0	1376.0	1333.5	1185.1	955.1
37.5°	1553.5	1537.7	1506.0	1471.0	1471.0	1447.6	1438.5	1423.5	1385.1	1234.3	985.9
40°	1706.0	1685.2	1644.3	1592.7	1545.2	1496.8	1491.0	1480.1	1446.0	1291.0	1020.9
42.5°	1873.5	1833.5	1776.8	1714.3	1637.7	1582.7	1569.3	1538.5	1505.1	1348.5	1055.9
45°	2059.4	1976.0	1893.5	1861.9	1735.2	1685.2	1660.2	1604.3	1566.8	1408.5	1092.6
47.5°	2089.4	2024.4	1969.4	1964.4	1826.0	1784.3	1756.0	1676.0	1633.5	1472.6	1130.9
50°	2072.7	2033.5	2039.4	2019.4	1892.7	1865.2	1843.5	1752.7	1699.3	1534.3	1165.9
52.5°	2002.7	2024.4	2057.7	2021.0	1956.0	1933.5	1922.7	1835.2	1761.0	1591.0	1197.6
55°	1919.4	1934.4	2006.0	2051.0	2029.4	2009.4	1999.4	1931.0	1821.8	1638.5	1226.8
57.5°	1797.7	1791.0	1870.2	2046.0	2106.0	2094.4	2083.5	2025.2	1878.5	1672.7	1245.1
60°	1615.2	1601.0	1701.0	1946.0	2131.0	2149.4	2144.4	2087.7	1921.9	1671.8	1237.6
62.5°	1299.3	1334.3	1472.6	1782.7	2141.9	2188.6	2179.4	2092.7	1936.0	1623.5	1190.1
65°	965.9	1015.9	1151.8	1557.7	2126.9	2208.6	2183.5	2011.0	1870.2	1527.7	1085.9
67.5°	695.9	740.1	839.2	1281.8	1982.7	2116.9	2087.7	1877.7	1718.5	1391.8	941.8
70°	475.9	507.6	575.1	933.4	1692.7	1830.2	1811.8	1678.5	1479.3	1230.1	765.1
72.5°	335.9	349.2	392.5	615.9	1286.0	1436.0	1414.3	1381.0	1188.5	1022.6	595.1
75°	251.7	260.0	283.4	398.4	867.6	995.1	975.1	994.3	887.6	774.2	433.4
77.5°	95.0	103.3	160.8	254.2	513.4	610.9	590.9	602.6	493.4	390.9	215.9
80°	25.8	27.5	53.3	120.8	233.4	304.2	276.7	237.5	183.4	180.0	114.2
82.5°	10.8	12.5	24.2	65.0	83.3	83.3	70.0	86.7	70.0	84.2	55.0
85°	4.2	5.0	5.8	16.7	10.8	11.7	12.5	16.7	14.2	17.5	12.5
87.5°	0.0	0.0	0.0	0.8	0.8	1.7	0.8	1.7	2.5	2.5	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°	673.4	673.4	673.4	673.4	673.4	673.4	673.4	673.4	673.4	673.4	673.4
2.5°	669.2	660.1	646.7	625.1	602.6	590.1	574.2	571.7	555.1	553.4	546.7
5°	673.4	654.2	620.1	578.4	537.6	505.9	482.5	470.0	445.9	445.9	439.2
7.5°	676.7	646.7	591.7	530.1	474.2	431.7	400.0	386.7	365.0	363.4	358.4
10°	677.6	637.6	560.9	480.9	412.5	369.2	338.4	323.4	304.2	302.5	299.2
12.5°	684.2	632.6	533.4	438.4	368.4	321.7	291.7	279.2	264.2	262.5	259.2
15°	695.1	632.6	510.1	402.5	329.2	285.9	260.0	248.4	237.5	235.9	234.2
17.5°	705.9	630.9	486.7	369.2	296.7	257.5	235.0	225.9	217.5	216.7	215.0
20°	715.9	630.1	463.4	340.9	271.7	234.2	216.7	208.4	201.7	201.7	200.9
22.5°	725.9	628.4	440.9	314.2	250.0	216.7	201.7	192.5	187.5	187.5	186.7
25°	740.9	628.4	420.0	291.7	232.5	203.4	188.4	181.7	177.5	176.7	176.7
27.5°	758.4	633.4	401.7	271.7	217.5	190.0	178.4	171.7	166.7	165.0	165.8
30°	777.6	637.6	385.0	254.2	203.4	180.0	167.5	160.8	155.8	154.2	155.0
32.5°	796.7	642.6	370.0	238.4	189.2	170.9	158.3	150.8	145.8	145.0	145.0
35°	817.6	647.6	355.0	225.0	177.5	161.7	150.0	141.7	138.3	136.7	137.5
37.5°	838.4	655.9	340.9	212.5	169.2	153.3	142.5	134.2	131.7	130.8	130.8
40°	863.4	668.4	335.0	204.2	161.7	145.8	136.7	128.3	125.8	125.8	125.8
42.5°	884.3	678.4	330.0	195.0	155.8	139.2	130.8	124.2	122.5	121.7	122.5
45°	905.1	687.6	323.4	186.7	148.3	132.5	125.8	119.2	117.5	117.5	117.5
47.5°	925.9	692.6	314.2	178.4	141.7	126.7	120.8	115.0	113.3	113.3	113.3
50°	942.6	696.7	300.9	169.2	134.2	121.7	115.8	110.0	108.3	108.3	108.3
52.5°	959.3	697.6	286.7	158.3	126.7	115.8	110.8	105.0	103.3	102.5	102.5
55°	974.3	696.7	270.0	145.8	118.3	109.2	105.0	100.0	96.7	93.3	95.0
57.5°	985.1	695.9	250.9	133.3	110.0	102.5	100.8	94.2	87.5	79.2	80.8
60°	980.9	686.7	230.0	117.5	100.8	95.8	95.8	86.7	75.0	70.8	71.7
62.5°	954.3	660.9	208.4	100.8	91.7	89.2	88.3	78.3	69.2	65.0	65.8
65°	874.3	595.9	176.7	85.8	82.5	81.7	81.7	72.5	64.2	59.2	60.0
67.5°	752.6	500.0	144.2	72.5	73.3	75.0	75.0	66.7	58.3	53.3	54.2
70°	603.4	390.9	115.0	62.5	63.3	65.8	67.5	60.0	52.5	47.5	47.5
72.5°	454.2	296.7	92.5	52.5	56.7	56.7	59.2	53.3	45.8	40.8	41.7
75°	329.2	212.5	73.3	44.2	49.2	48.3	48.3	45.0	39.2	35.8	35.8
77.5°	155.8	111.7	58.3	31.7	38.3	37.5	38.3	35.8	33.3	30.0	30.8
80°	76.7	55.0	37.5	22.5	26.7	27.5	30.0	28.3	27.5	25.0	25.0
82.5°	36.7	21.7	17.5	15.8	18.3	19.2	20.8	20.8	21.7	20.0	20.0
85°	10.0	5.8	7.5	10.0	11.7	12.5	14.2	15.0	15.0	14.2	15.0
87.5°	2.5	2.5	3.3	5.0	5.8	6.7	7.5	7.5	3.3	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)