

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: P799497

Luminaire Tested: **ARCH2-30-727-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-30-727-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 260mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4750 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

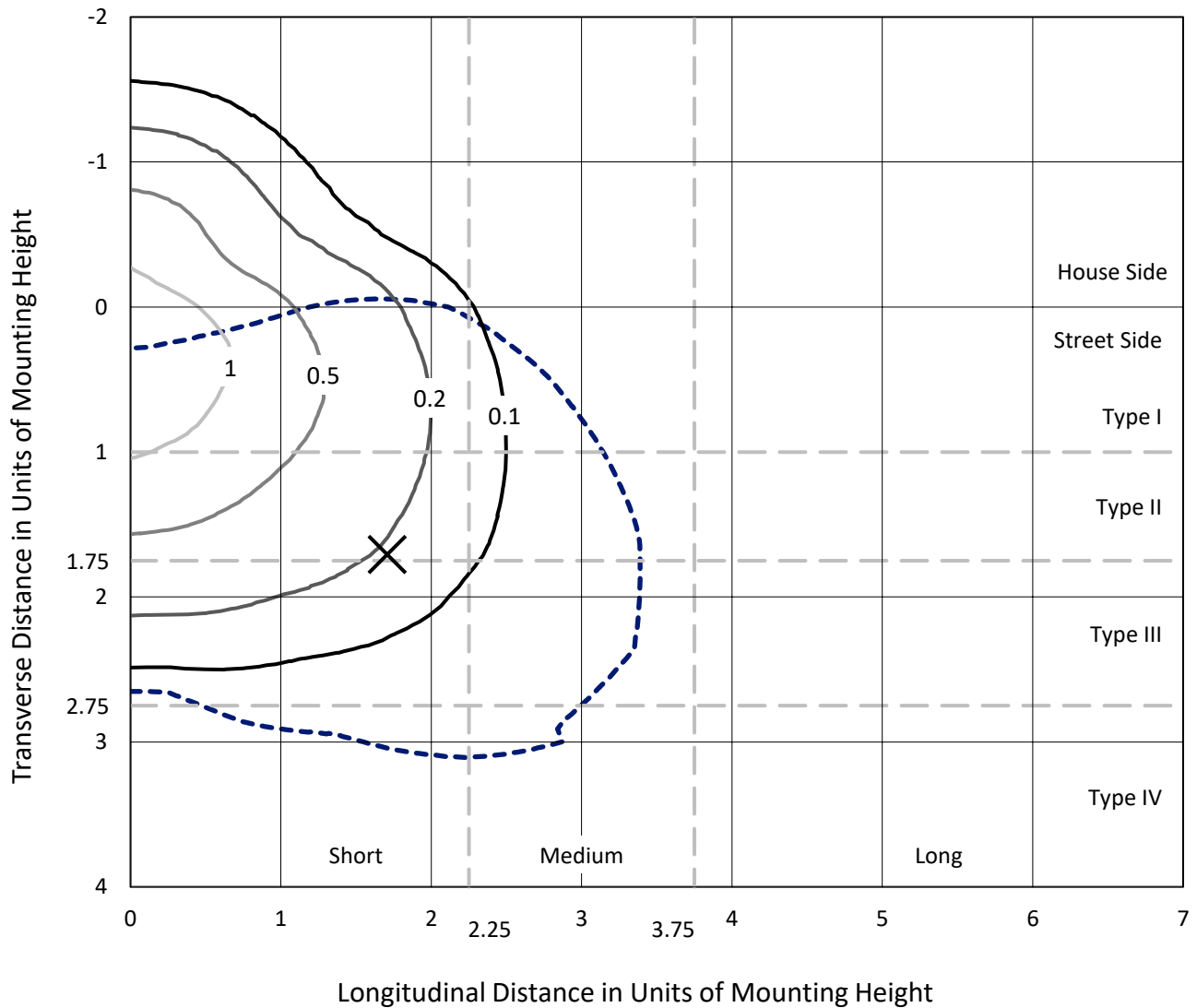
Input Watts (W): 34.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

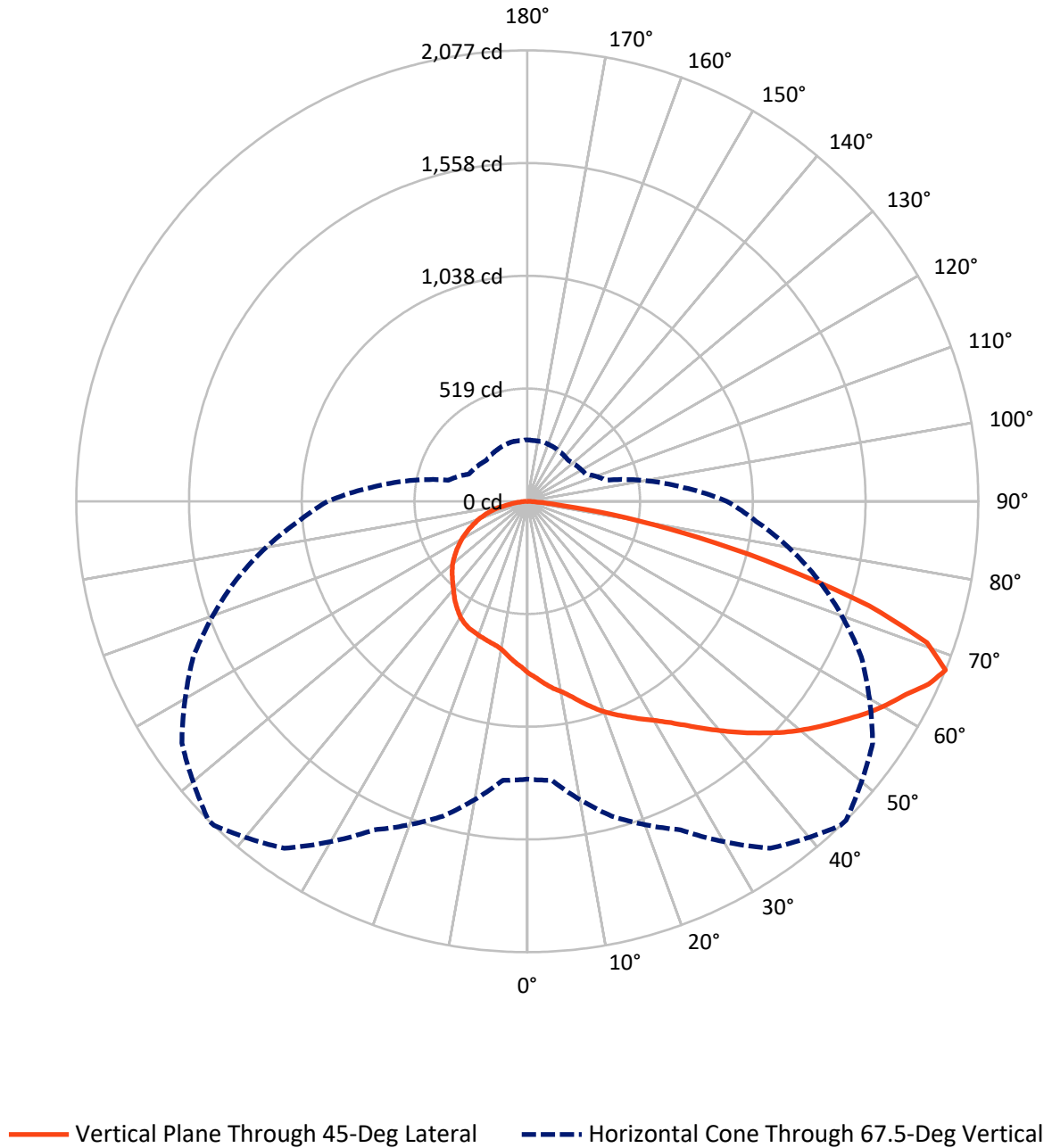
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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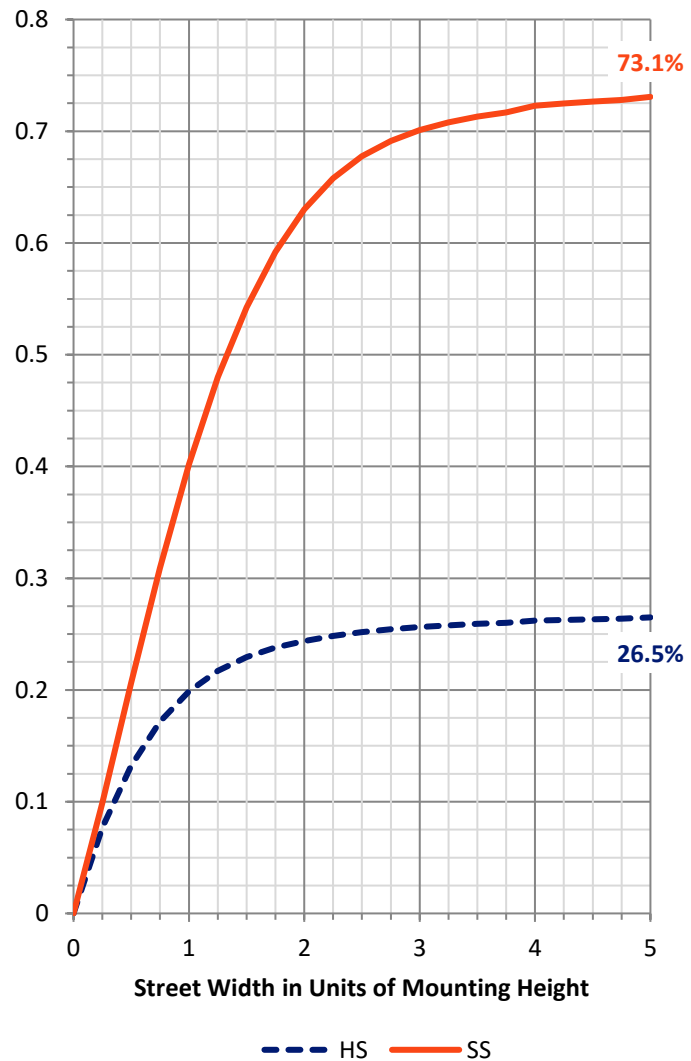
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1269.0	0.0	1269.0
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	3481.0	0.0	3481.0
	% Fixture	73.3	0.0	73.3
Total	Lumens	4750.0	0.0	4750.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.9	1.6
10°-20°	234.3	4.9
20°-30°	404.4	8.5
30°-40°	596.4	12.6
40°-50°	808.0	17.0
50°-60°	987.6	20.8
60°-70°	1018.6	21.4
70°-80°	557.9	11.7
80°-90°	66.9	1.4
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°	4750.0	100.0
0°-180°	4750.0	100.0



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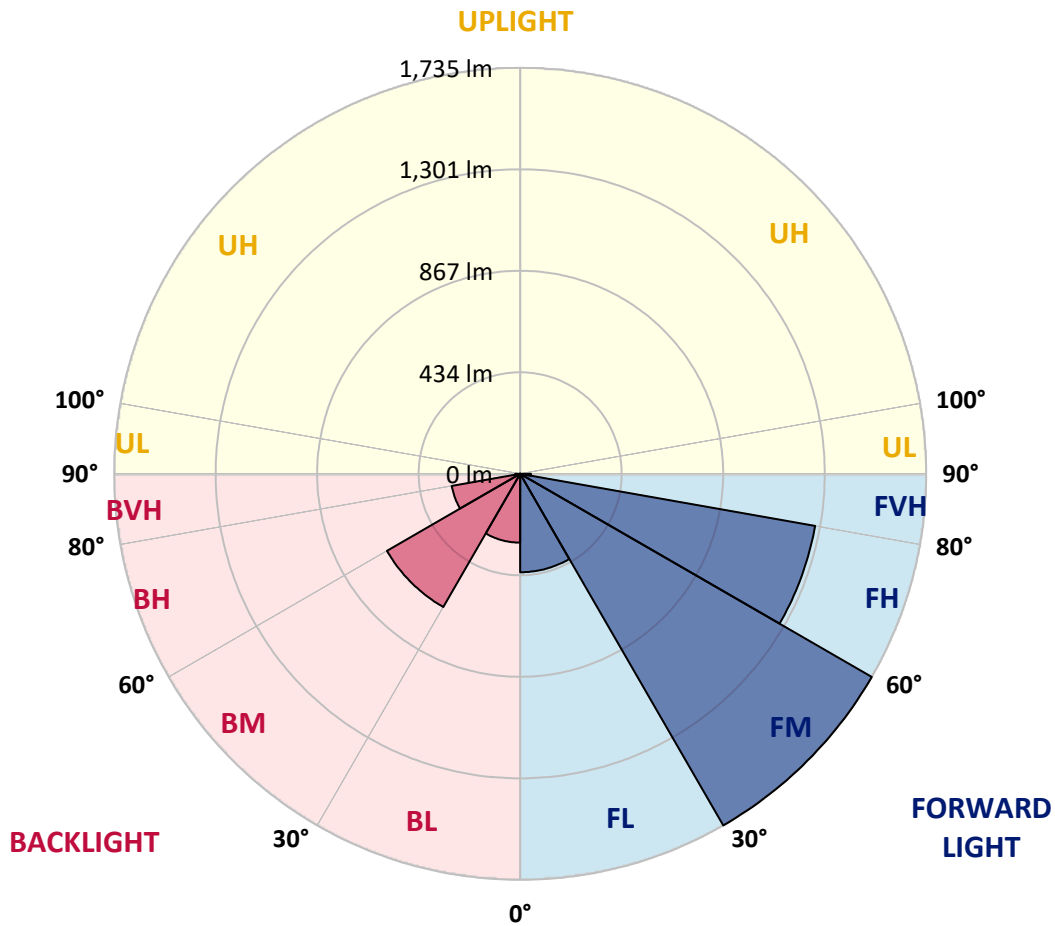
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	420.5	8.9			
FM (30°-60°)	1734.7	36.5			
FH (60°-80°)	1279.7	26.9			G1/1800
FVH (80°-90°)	46.1	1.0			G1/100
BL (0°-30°)	294.1	6.2	B1/500		
BM (30°-60°)	657.3	13.8	B1/1000		
BH (60°-80°)	296.8	6.2	B1/500		G1/500
BVH (80°-90°)	20.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	826.9	826.2	827.6	822.6	816.1	815.3	815.3	811.0	805.9	795.8	787.9
5°	865.9	864.5	865.2	858.0	849.3	845.0	844.3	834.9	823.3	807.4	792.9
7.5°	902.1	900.6	899.9	892.0	878.9	871.7	871.0	857.3	843.5	819.0	798.0
10°	936.1	934.6	933.2	922.3	906.4	895.6	894.1	876.8	859.4	829.1	802.3
12.5°	979.4	976.5	975.1	962.1	938.9	927.4	925.2	902.1	880.4	843.5	811.0
15°	1025.0	1022.8	1020.6	1008.3	982.3	967.1	963.5	934.6	905.0	862.3	824.0
17.5°	1058.9	1056.8	1056.8	1045.9	1022.1	1004.7	1001.8	967.1	930.3	879.7	834.1
20°	1079.9	1077.7	1079.9	1073.4	1055.3	1040.9	1038.0	999.7	955.6	895.6	842.8
22.5°	1095.1	1092.9	1096.5	1093.6	1080.6	1071.9	1069.8	1032.2	981.6	912.2	851.5
25°	1121.8	1121.8	1121.8	1116.8	1104.5	1101.6	1101.6	1069.0	1014.8	933.9	864.5
27.5°	1175.3	1172.4	1168.8	1154.3	1133.4	1132.7	1137.0	1106.6	1053.1	962.1	880.4
30°	1254.1	1252.6	1238.9	1208.6	1173.1	1169.5	1172.4	1147.1	1094.3	991.7	898.5
32.5°	1356.0	1350.9	1322.8	1277.2	1226.6	1210.0	1215.8	1189.0	1137.7	1022.1	915.8
35°	1428.3	1429.7	1409.5	1368.3	1308.3	1264.2	1268.5	1236.0	1184.7	1056.0	937.5
37.5°	1511.4	1516.5	1486.1	1455.0	1399.4	1324.2	1328.5	1284.4	1231.7	1098.7	960.6
40°	1626.3	1616.2	1564.9	1528.0	1466.6	1387.1	1390.7	1338.7	1285.9	1139.2	987.4
42.5°	1722.5	1704.4	1642.2	1595.3	1521.5	1453.6	1457.2	1397.2	1340.8	1184.0	1017.0
45°	1860.5	1810.7	1721.0	1697.9	1577.9	1518.6	1522.3	1459.4	1398.7	1231.7	1048.8
47.5°	1940.8	1861.3	1804.2	1791.9	1640.1	1585.9	1590.2	1525.1	1460.8	1285.9	1082.1
50°	1935.7	1884.4	1867.8	1837.4	1695.0	1648.8	1653.1	1593.1	1523.7	1339.4	1113.9
52.5°	1902.5	1911.9	1903.2	1852.6	1749.9	1709.5	1714.5	1660.3	1588.0	1389.3	1143.5
55°	1953.8	1960.3	1943.7	1877.2	1810.7	1770.2	1776.0	1731.2	1651.6	1433.4	1168.8
57.5°	2015.2	1992.1	1975.5	1920.5	1873.5	1836.0	1842.5	1803.4	1706.6	1468.8	1188.3
60°	2012.3	1963.9	1980.5	1923.4	1916.2	1896.7	1902.5	1862.7	1748.5	1494.8	1196.3
62.5°	1864.2	1838.1	1922.0	1902.5	1950.9	1950.9	1958.1	1898.8	1773.8	1505.6	1191.9
65°	1606.8	1608.3	1755.7	1836.7	1992.1	2025.3	2031.1	1921.3	1759.3	1473.8	1151.5
67.5°	1280.1	1289.5	1501.3	1669.7	1950.9	2075.9	2076.7	1941.5	1697.2	1384.2	1057.5
70°	936.8	944.0	1194.1	1398.7	1756.5	1963.9	1952.3	1884.4	1562.0	1228.1	910.8
72.5°	633.2	639.7	897.0	1074.1	1441.3	1672.6	1647.3	1665.4	1331.4	1009.1	732.2
75°	425.7	433.7	638.2	768.4	1060.4	1270.0	1213.6	1261.3	1030.0	764.0	534.2
77.5°	268.2	273.2	405.5	503.8	724.3	864.5	808.1	808.8	593.4	411.3	287.0
80°	170.6	172.0	245.8	290.6	419.2	519.7	459.7	373.7	267.4	218.3	171.3
82.5°	99.0	96.9	146.7	164.1	199.5	197.3	163.4	154.7	117.1	109.1	87.5
85°	39.8	36.9	64.3	60.0	60.7	64.3	47.7	47.7	38.3	29.6	21.7
87.5°	8.0	8.0	8.7	8.0	8.0	8.7	6.5	6.5	5.8	5.8	5.8
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°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	786.4	785.0	781.4	772.0	766.9	764.0	759.7	758.2	757.5	758.2	760.4
5°	788.6	783.5	773.4	758.2	748.1	741.6	734.4	731.5	729.3	729.3	731.5
7.5°	790.0	782.1	764.7	742.3	727.9	717.8	709.1	705.5	704.7	706.9	707.6
10°	790.8	779.2	754.6	726.4	707.6	694.6	686.0	683.8	686.0	690.3	691.0
12.5°	795.8	779.9	748.8	715.6	693.2	680.2	673.7	673.7	679.5	687.4	688.1
15°	804.5	785.0	745.9	706.9	683.8	672.2	670.1	673.7	682.3	694.6	696.1
17.5°	811.0	787.9	739.4	695.4	671.5	664.3	667.9	676.6	688.8	705.5	706.9
20°	815.3	787.9	730.0	681.6	659.2	657.8	667.9	681.6	694.6	714.1	716.3
22.5°	819.7	786.4	719.2	665.0	645.5	649.8	668.6	686.0	699.0	719.9	723.5
25°	827.6	788.6	708.4	648.4	631.0	643.3	667.9	688.8	702.6	724.3	730.0
27.5°	838.5	793.7	700.4	633.2	616.6	633.2	662.8	688.1	702.6	723.5	730.0
30°	850.0	799.4	691.0	616.6	599.9	618.7	652.0	680.2	696.8	716.3	724.3
32.5°	862.3	805.9	683.1	598.5	579.7	599.2	636.1	667.9	686.0	704.0	712.7
35°	878.9	817.5	678.7	584.0	561.6	579.0	615.8	652.0	671.5	688.1	698.2
37.5°	899.2	832.0	676.6	569.6	542.1	556.6	594.2	632.5	653.4	667.2	676.6
40°	922.3	850.0	675.8	555.8	522.6	533.4	571.8	610.1	630.3	641.1	649.1
42.5°	948.3	870.3	674.4	542.1	503.1	511.8	550.1	587.7	605.0	614.4	621.6
45°	975.8	890.5	671.5	525.5	482.1	492.2	527.7	560.9	579.0	586.9	594.9
47.5°	1003.3	910.8	665.7	506.7	463.3	472.7	503.8	532.7	547.2	554.4	562.4
50°	1030.0	928.8	652.0	485.0	443.8	452.5	476.3	495.9	506.7	512.5	520.4
52.5°	1053.9	941.1	632.5	459.7	424.3	428.6	444.5	461.2	469.8	470.6	477.8
55°	1074.1	947.6	604.3	433.7	403.3	404.1	412.7	425.7	429.4	426.5	431.5
57.5°	1085.7	944.0	573.2	406.9	381.6	378.8	385.3	391.8	392.5	385.3	390.3
60°	1088.6	927.4	532.7	380.2	360.0	352.0	354.2	352.7	351.3	348.4	352.7
62.5°	1074.1	892.0	487.9	354.2	336.8	324.5	323.8	323.1	325.3	326.0	326.7
65°	1021.3	825.5	434.4	327.4	312.3	295.6	294.9	303.6	306.5	302.1	303.6
67.5°	919.4	723.5	375.9	296.4	281.2	266.7	272.5	277.6	282.6	281.2	282.6
70°	774.9	594.2	322.4	261.7	247.2	239.3	245.8	250.1	250.8	249.4	250.8
72.5°	609.3	464.0	272.5	226.2	213.2	209.6	217.6	221.2	227.7	230.6	231.3
75°	440.2	342.6	223.4	187.9	177.1	177.1	184.3	190.8	196.6	193.0	190.8
77.5°	245.8	204.6	160.5	129.4	131.6	141.7	144.6	151.8	157.6	156.9	155.4
80°	148.9	127.9	108.4	83.8	83.1	91.1	109.9	122.2	125.0	118.5	117.8
82.5°	77.3	67.2	57.8	47.0	52.0	60.7	63.6	76.6	84.6	81.7	85.3
85°	19.5	18.8	21.0	21.7	26.7	29.6	32.5	38.3	25.3	12.3	12.3
87.5°	5.8	5.8	7.2	7.2	9.4	11.6	10.8	10.8	5.8	0.7	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)