

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: P798920

Luminaire Tested: **ARCH1-40-750-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798920
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: ARCH1-40-750-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1220mA 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: 4076 lumens
Efficiency: N/A
Efficacy: 94.8 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

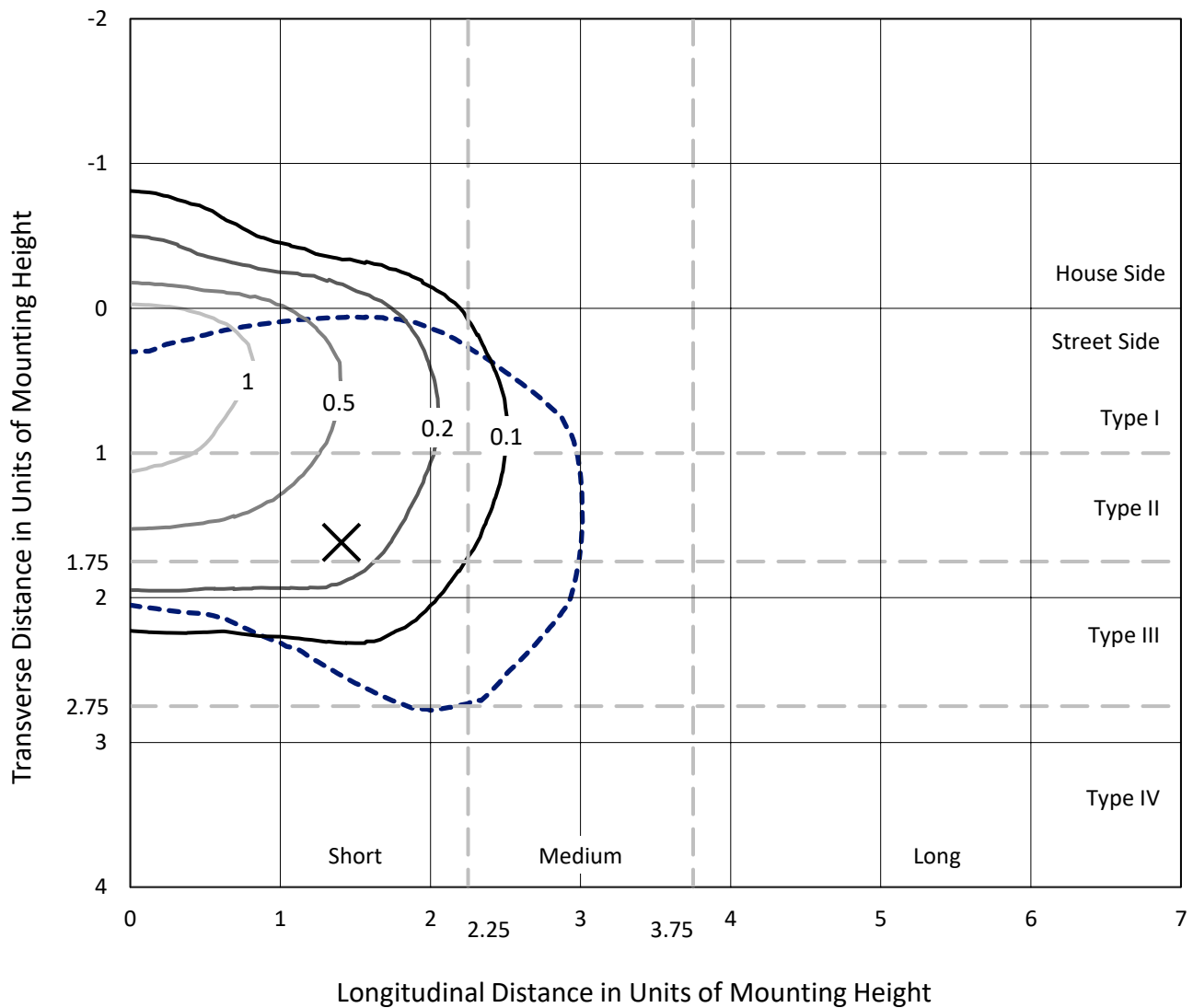
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

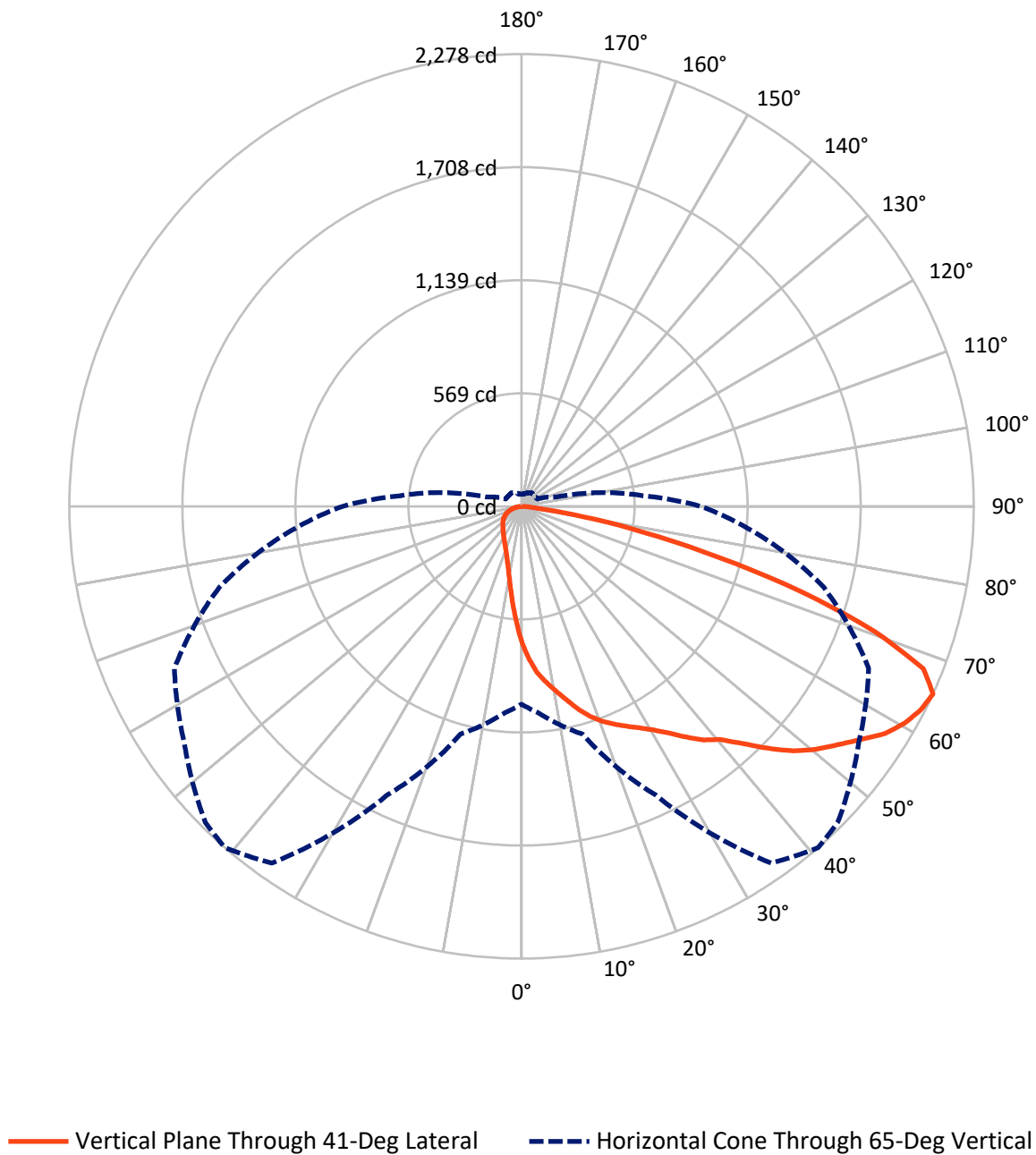


Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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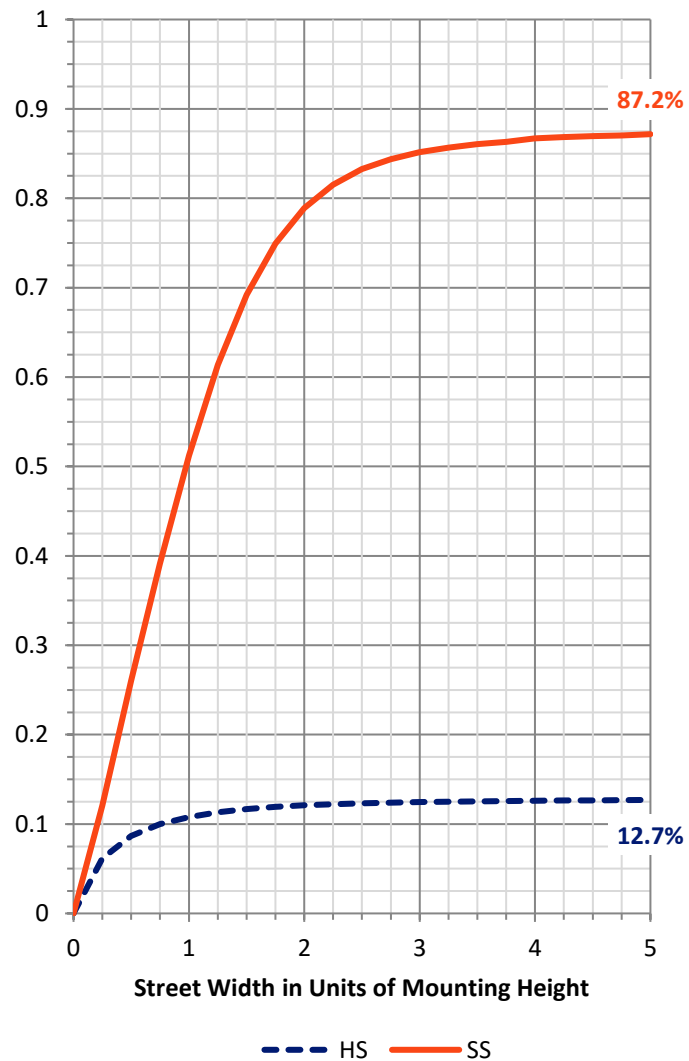
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	523.3	0.0	523.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	3552.7	0.0	3552.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	4076.0	0.0	4076.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.7	1.6
10°-20°	194.0	4.8
20°-30°	333.8	8.2
30°-40°	506.3	12.4
40°-50°	741.7	18.2
50°-60°	936.7	23.0
60°-70°	878.3	21.5
70°-80°	391.5	9.6
80°-90°	29.0	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°	4076.0	100.0
0°-180°	4076.0	100.0

Coefficient of Utilization



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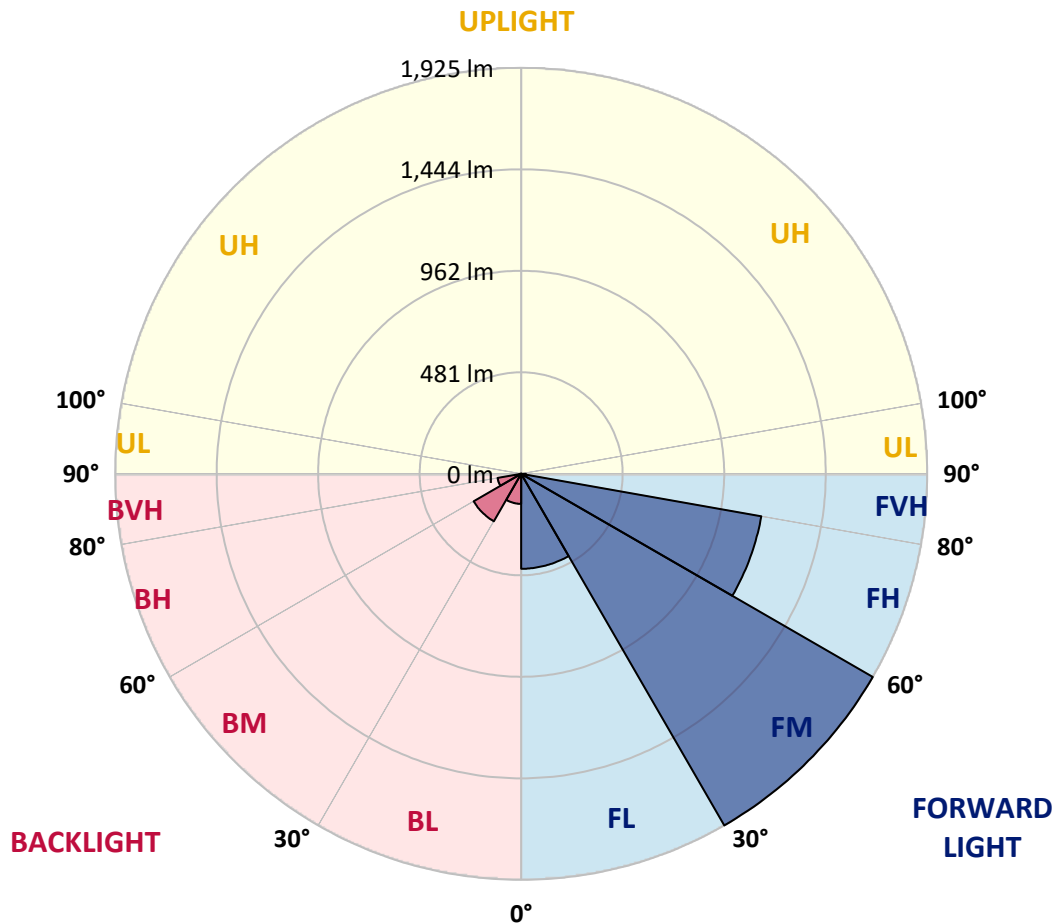
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	450.1	11.0			
FM	(30°-60°)	1924.8	47.2			
FH	(60°-80°)	1156.1	28.4			G1/1800
FVH	(80°-90°)	21.7	0.5			G1/100
BL	(0°-30°)	142.4	3.5	B1/500		
BM	(30°-60°)	259.8	6.4	B1/1000		
BH	(60°-80°)	113.7	2.8	B1/500		G1/500
BVH	(80°-90°)	7.3	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°	694.5	694.5	694.5	694.5	694.5	694.5	694.5	694.5	694.5	694.5	694.5
2.5°	801.1	798.5	796.8	787.4	787.4	774.5	775.3	763.3	748.7	725.5	700.5
5°	876.8	873.3	869.0	859.6	856.1	843.2	841.5	824.3	799.4	759.0	714.3
7.5°	942.9	939.5	933.5	919.7	910.3	894.8	890.5	868.2	840.7	790.8	728.1
10°	1003.1	1000.5	992.8	975.6	962.7	943.8	936.1	906.0	871.6	816.6	739.2
12.5°	1064.1	1060.7	1050.4	1035.8	1020.3	998.0	988.5	949.8	906.0	845.0	755.6
15°	1120.9	1115.7	1108.0	1092.5	1078.8	1057.3	1047.0	1001.4	948.1	876.8	777.0
17.5°	1157.8	1153.5	1146.7	1138.1	1126.9	1110.6	1100.2	1055.5	990.2	907.7	799.4
20°	1180.2	1178.5	1175.9	1170.7	1165.6	1154.4	1146.7	1104.5	1035.8	937.8	820.9
22.5°	1197.4	1195.7	1194.8	1194.8	1195.7	1191.4	1186.2	1150.1	1079.6	969.6	840.7
25°	1224.0	1223.2	1221.4	1219.7	1225.7	1226.6	1224.9	1200.0	1134.6	1011.7	865.6
27.5°	1261.0	1258.4	1255.0	1253.2	1259.3	1263.6	1267.0	1249.8	1193.1	1054.7	893.9
30°	1317.7	1310.0	1301.4	1295.4	1299.7	1306.5	1314.3	1304.0	1253.2	1108.0	923.2
32.5°	1384.8	1375.3	1355.5	1344.4	1355.5	1360.7	1366.7	1361.6	1316.0	1165.6	952.4
35°	1466.4	1455.2	1434.6	1418.3	1438.1	1426.9	1424.3	1419.1	1375.3	1222.3	985.1
37.5°	1602.2	1585.9	1553.2	1517.1	1517.1	1493.1	1483.6	1468.1	1428.6	1273.0	1016.9
40°	1759.5	1738.0	1695.9	1642.6	1593.6	1543.8	1537.8	1526.6	1491.3	1331.5	1053.0
42.5°	1932.3	1891.0	1832.6	1768.1	1689.0	1632.3	1618.6	1586.8	1552.4	1390.8	1089.1
45°	2124.0	2038.0	1952.9	1920.3	1789.6	1738.0	1712.3	1654.7	1616.0	1452.7	1126.9
47.5°	2154.9	2087.9	2031.2	2026.0	1883.3	1840.3	1811.1	1728.6	1684.7	1518.9	1166.4
50°	2137.7	2097.3	2103.4	2082.7	1952.1	1923.7	1901.4	1807.7	1752.7	1582.5	1202.5
52.5°	2065.5	2087.9	2122.3	2084.4	2017.4	1994.2	1983.0	1892.8	1816.3	1640.9	1235.2
55°	1979.6	1995.1	2069.0	2115.4	2093.0	2072.4	2062.1	1991.6	1879.0	1689.9	1265.3
57.5°	1854.1	1847.2	1928.9	2110.2	2172.1	2160.1	2148.9	2088.7	1937.5	1725.1	1284.2
60°	1665.8	1651.2	1754.4	2007.1	2197.9	2216.8	2211.7	2153.2	1982.2	1724.3	1276.5
62.5°	1340.1	1376.2	1518.9	1838.6	2209.1	2257.2	2247.8	2158.4	1996.8	1674.4	1227.5
65°	996.2	1047.8	1187.9	1606.5	2193.6	2277.8	2252.1	2074.1	1928.9	1575.6	1120.0
67.5°	717.7	763.3	865.6	1322.0	2044.9	2183.3	2153.2	1936.6	1772.4	1435.5	971.3
70°	490.8	523.5	593.1	962.7	1745.8	1887.6	1868.7	1731.2	1525.7	1268.7	789.1
72.5°	346.4	360.2	404.9	635.2	1326.3	1481.0	1458.7	1424.3	1225.7	1054.7	613.7
75°	259.6	268.2	292.3	410.9	894.8	1026.3	1005.7	1025.5	915.4	798.5	447.0
77.5°	98.0	106.6	165.9	262.2	529.5	630.1	609.4	621.5	508.9	403.1	222.6
80°	26.6	28.4	55.0	124.6	240.7	313.7	285.4	245.0	189.1	185.7	117.8
82.5°	11.2	12.9	24.9	67.0	86.0	86.0	72.2	89.4	72.2	86.8	56.7
85°	4.3	5.2	6.0	17.2	11.2	12.0	12.9	17.2	14.6	18.1	12.9
87.5°	0.0	0.0	0.0	0.9	0.9	1.7	0.9	1.7	2.6	2.6	2.6
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°	694.5	694.5	694.5	694.5	694.5	694.5	694.5	694.5	694.5	694.5	694.5
2.5°	690.2	680.8	667.0	644.7	621.5	608.6	592.2	589.7	572.5	570.8	563.9
5°	694.5	674.8	639.5	596.5	554.4	521.8	497.7	484.8	459.9	459.9	453.0
7.5°	698.0	667.0	610.3	546.7	489.1	445.3	412.6	398.8	376.5	374.8	369.6
10°	698.8	657.6	578.5	496.0	425.5	380.8	349.0	333.5	313.7	312.0	308.6
12.5°	705.7	652.4	550.1	452.1	379.9	331.8	300.8	288.0	272.5	270.8	267.3
15°	716.9	652.4	526.1	415.2	339.5	294.8	268.2	256.2	245.0	243.3	241.5
17.5°	728.1	650.7	502.0	380.8	306.0	265.6	242.4	232.9	224.3	223.5	221.8
20°	738.4	649.8	477.9	351.6	280.2	241.5	223.5	214.9	208.0	208.0	207.2
22.5°	748.7	648.1	454.7	324.1	257.9	223.5	208.0	198.6	193.4	193.4	192.5
25°	764.2	648.1	433.2	300.8	239.8	209.7	194.3	187.4	183.1	182.2	182.2
27.5°	782.2	653.3	414.3	280.2	224.3	196.0	183.9	177.1	171.9	170.2	171.1
30°	802.0	657.6	397.1	262.2	209.7	185.7	172.8	165.9	160.7	159.0	159.9
32.5°	821.7	662.7	381.6	245.8	195.1	176.2	163.3	155.6	150.4	149.6	149.6
35°	843.2	667.9	366.2	232.1	183.1	166.8	154.7	146.1	142.7	141.0	141.8
37.5°	864.7	676.5	351.6	219.2	174.5	158.2	147.0	138.4	135.8	135.0	135.0
40°	890.5	689.4	345.5	210.6	166.8	150.4	141.0	132.4	129.8	129.8	129.8
42.5°	912.0	699.7	340.4	201.1	160.7	143.5	135.0	128.1	126.4	125.5	126.4
45°	933.5	709.1	333.5	192.5	153.0	136.7	129.8	122.9	121.2	121.2	121.2
47.5°	955.0	714.3	324.1	183.9	146.1	130.7	124.6	118.6	116.9	116.9	116.9
50°	972.2	718.6	310.3	174.5	138.4	125.5	119.5	113.5	111.7	111.7	111.7
52.5°	989.4	719.5	295.7	163.3	130.7	119.5	114.3	108.3	106.6	105.7	105.7
55°	1004.8	718.6	278.5	150.4	122.1	112.6	108.3	103.1	99.7	96.3	98.0
57.5°	1016.0	717.7	258.7	137.5	113.5	105.7	104.0	97.1	90.3	81.7	83.4
60°	1011.7	708.3	237.2	121.2	104.0	98.9	98.9	89.4	77.4	73.1	73.9
62.5°	984.2	681.6	214.9	104.0	94.6	92.0	91.1	80.8	71.3	67.0	67.9
65°	901.7	614.6	182.2	88.5	85.1	84.2	84.2	74.8	66.2	61.0	61.9
67.5°	776.2	515.7	148.7	74.8	75.6	77.4	77.4	68.8	60.2	55.0	55.9
70°	622.3	403.1	118.6	64.5	65.3	67.9	69.6	61.9	54.2	49.0	49.0
72.5°	468.5	306.0	95.4	54.2	58.5	58.5	61.0	55.0	47.3	42.1	43.0
75°	339.5	219.2	75.6	45.6	50.7	49.9	49.9	46.4	40.4	37.0	37.0
77.5°	160.7	115.2	60.2	32.7	39.5	38.7	39.5	37.0	34.4	30.9	31.8
80°	79.1	56.7	38.7	23.2	27.5	28.4	30.9	29.2	28.4	25.8	25.8
82.5°	37.8	22.3	18.1	16.3	18.9	19.8	21.5	21.5	22.3	20.6	20.6
85°	10.3	6.0	7.7	10.3	12.0	12.9	14.6	15.5	15.5	14.6	15.5
87.5°	2.6	2.6	3.4	5.2	6.0	6.9	7.7	7.7	3.4	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)